

Annual Report 2019-20



GNIT



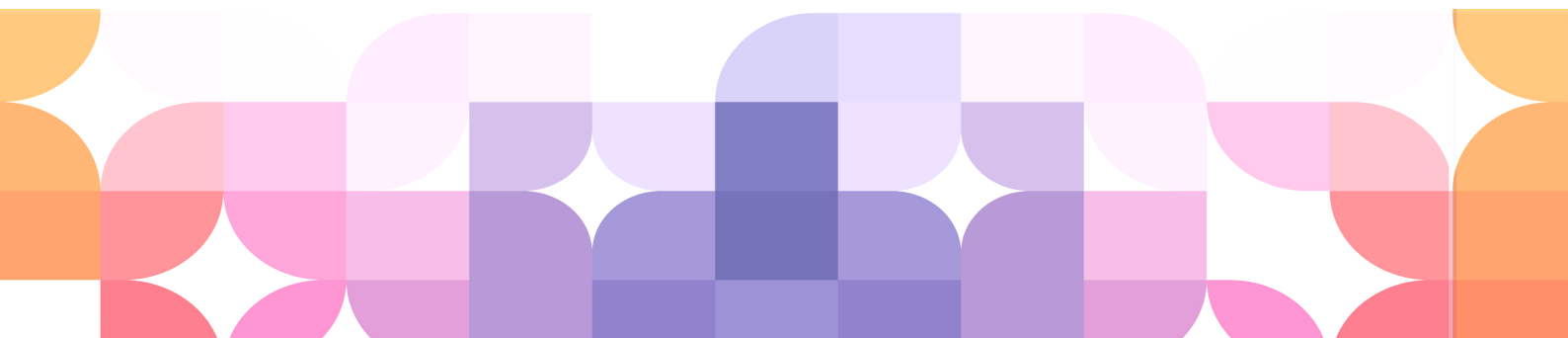
Guru Nanak Institute of Technology



“ Vision looks inward and becomes duty. Vision looks outward and becomes aspiration. Vision looks upward and becomes faith.

”

- Sardar Jodh Singh



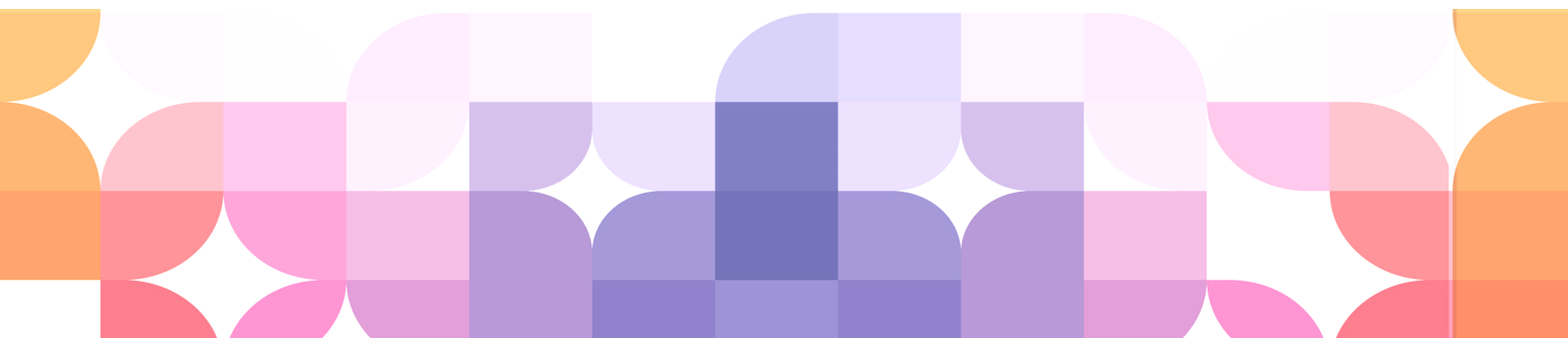
Founder



Sardar Jodh Singh



JIS GROUP
Educational Initiatives



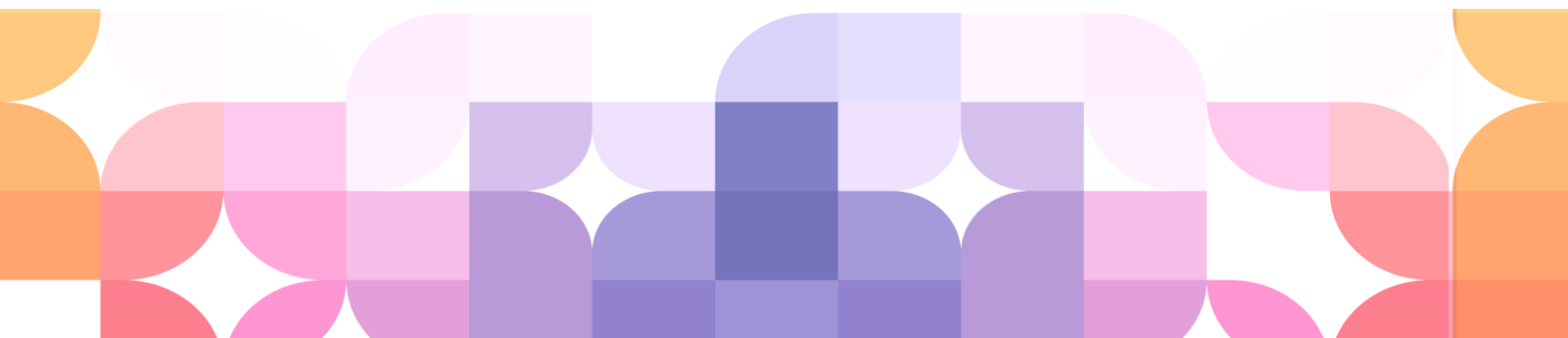
Message from Managing Director



This gives me immense pleasure to induct the Annual Report of Guru Nanak Institute of Technology, Kolkata, West-Bengal. GNIT was established in the year 2003 by the Guru Nanak Educational Trust. GNIT is a unit of JIS Group Educational Initiatives. The institute is making progress in multidisciplinary dimension, consolidating the endeavour to consistently attain excellence. This annual report is the comprehensive report of the progress for the academic year 2017-18. The number of students' and faculties' achievements and recognitions multiplied during 2017-18. In the field of research, faculties and students published many noteworthy papers in different national and international forums. The institute has organized multifaceted events in national and international echelon.

GNIT have been going through a major transformation over the past years and it is not easy to assess the transformation impact from one year's results, but when looking back, it becomes clear just how much has changed. I want to thank our students, parents and others associated with GNIT, for their sustained trust. I want to thank our employees for their commitment, energy and irrepressible drive, which helped to establish GNIT as an institute of national repute.

Sardar Taranjit Singh
Managing Director, JIS



Message from Principal



Guru Nanak Institute of Technology (GNIT) was established in the year 2003 by the Guru Nanak Educational Trust. GNIT is a unit of JIS Group Educational Initiatives, a premier education service provider in West Bengal, having 30 Institutions, 25,000 students offering 72 academic programmes. Instituted with a vision to empower aspiring professionals with technological knowledge and professional expertise. This technical campus offering undergraduate and post graduate courses under MaulanaAbulKalam Azad University of Technology (MAKAUT formerly WBUT), approved by NAAC, UGC, NBA, AICTE is located in one of the prime locations in North Kolkata. The Institute offers global standard education in latest technology, fosters research initiatives and innovations undertaken by both the faculty members and the students to enrich and enhance the teaching learning process. This approach equips the students to keep pace with the dynamic evolution of science and technology both in academics and industry. The trend-setting academic endeavors of GNIT have produced some of the finest scholars and ace industry professionals amongst our alumni who have brought fame and laurels for both the institute and themselves.

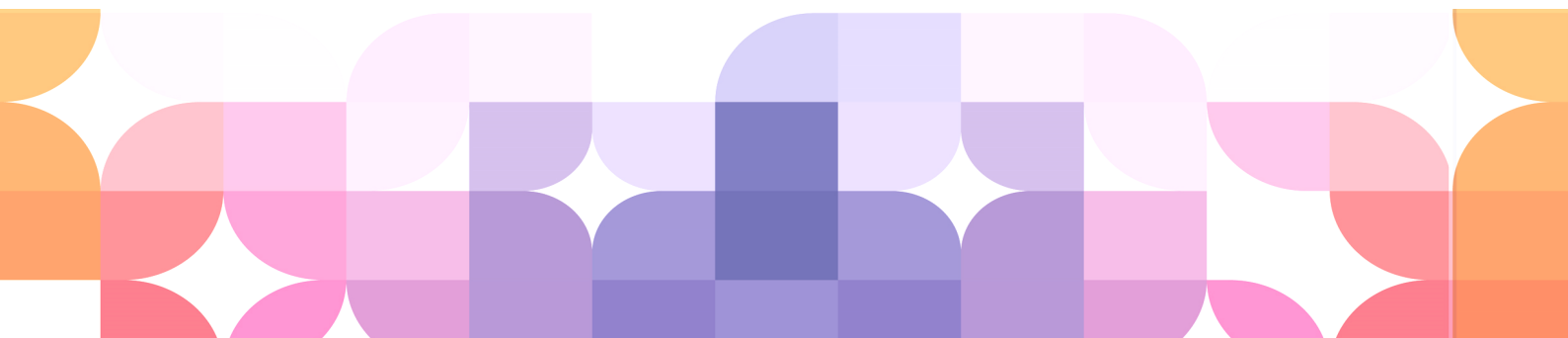
The Institute is located at the industrial hub of Sodepur, well connected by road and railway and in near proximity to Kolkata International Airport and to Howrah, Sealdah and Kolkata railway stations, which are the gateways' to the city of joy. The serene and aesthetically developed campus is highly conducive for quality academic endeavors. The entire campus is smoking free & plastic free to ensure an eco-friendly and pollution free environment. The college has an enrollment of around 2000 students pursuing various degree engineering courses.

Sincerely

Prof (Dr) Santanu Kr. Sen
Principal, GNIT

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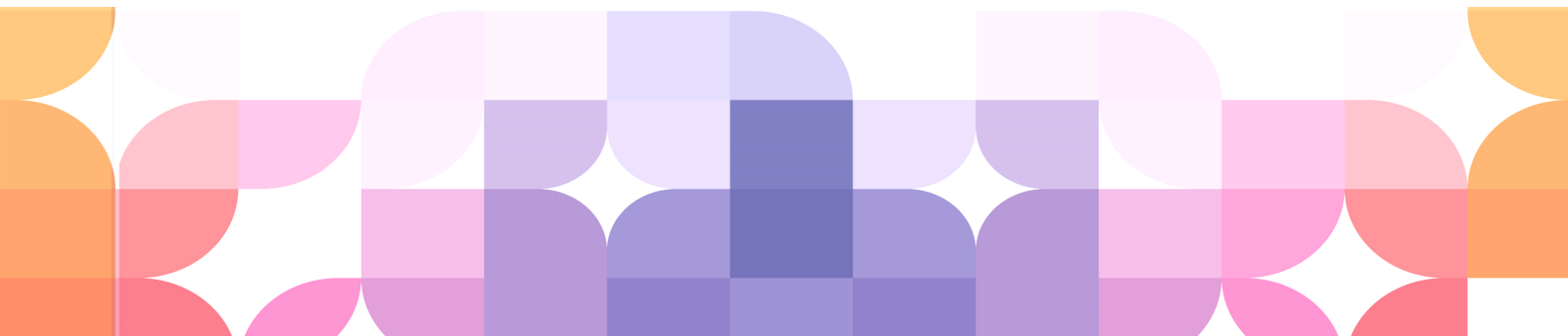
4. RESEARCH & PUBLICATION

4.1. PUBLICATION

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Vision and Mission of the Institute

Vision of the Institute

- * To ignite young minds with creativity and empowering lives
- * To train and educate students at both U.G and P.G levels to produce a galaxy of young professionals of outstanding ability who can become leaders in their profession
- * To pursue new educational initiatives of national significance
- * To develop responsible citizens who can meet the challenges faced by the society










Mission of the Institute

- * To meet the demands for skilled manpower on a global basis in the field of Engineering, Technology and Management
- * To inculcate amongst the students and inspire them to take up higher studies and research
- * To impart high quality education by providing the ambience needed for developing requisite skill for excellence in education and industry

Awards and Association



Associated With

 AIT Asian Institute of Technology AIT, Bangkok	 BCC&i THE BENGAL CHAMBER BCCI	 IE (I)	 CII Confederation of Indian Industry CII	 ISTE
 ECAM GRADUATE SCHOOL OF ENGINEERING Lyon ECAM LYON, School of Engineering, France	 MSME Ministry of MSME, Govt. of India MSME	 Infosys INFOSYS	 NASSCOM NASSCOM	

Achievements & Recognition



GNIT organized KRITI 2019 – Award of Excellence on 20 September, 2019



GNIT hosted JIS Research Excellence Award 2019 ceremony on 30 September, 2019



GNIT hosted The 4th Edition of Bharati Devi Excellence Award 2019, felicitates the topper in college (highest DGPA rank holder) on 1st October 2019

List of Institutions Innovation Council(IIC) with STAR Ratings for the IIC Calendar Year 2018-19						
Zone: Eastern/ERO						
s.no	IIC ID	Institute Name	City	State	Zone	Star Rating
1	IC201810083	SALICON INSTITUTE OF TECHNOLOGY	BHUBANESWAR	Odisha	Eastern/ERO	★★★★★
2	IC201810115	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS	CHANDANNAGAR	West Bengal	Eastern/ERO	★★★★★
3	IC201810469	INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD	DHANBAD	JHARKHAND	Eastern/ERO	★★★★★
4	IC201810255	Indian Institute of technology Kharagpur	West Medinipur	West Bengal	Eastern/ERO	★★★★★
5	IC201812225	National Institute of Technology	Yupia	Arunachal Pradesh	Eastern/ERO	★★★★★
6	IC201814431	UNIVERSITY OF ENGINEERING AND MANAGEMENT KOLKATA	KOLKATA	West Bengal	Eastern/ERO	★★★★★
7	IC201810974	GURUNANAK INSTITUTE OF TECHNOLOGY	KOLKATA	West Bengal	Eastern/ERO	★★★★★

GNIT under JIS Group stood 7th across Eastern ERO and received 4 Stars from the Ministry of Human Resource Development initiative Institution Innovation Council for the Calendar Year 2018-2019

Achievements & Recognition



26 GNIT Students at Moscow, Russia on International Educational Tour led by Prof. Ipsita Saha, HOD, CSE participated in World Skills Russia



GNIT organized International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2019) during 26 - 27 September, 2019



GNIT organized S4DS Innovation Hackathon 2020 on 15th October, 2019



GNIT organized Industry Academia Meet on Waste Management during 7-8 November, 2019

Achievements & Recognition



Business Economics has published a full page interview of Prof. (Dr.) Santanu Kr. Sen, Principal, GNIT in the September 01-15, 2019 issue titled: "GNIT is preparing students for Industry 4.0"

Prof. (Dr.) Santanu Kr. Sen, Principal, GNIT along with Mr. Tapas Sen, CEO, TNS Consultancy live at "Ki Hote Chai" on DD Bangla on the topic "Bortoman IT Industry te Hackathon er Guruttopurno Bhumika" on 11th October, 2019

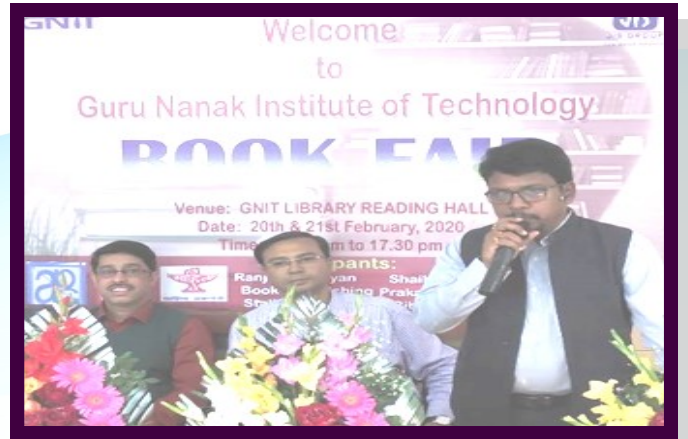


ICPC Asia West Continent Finals 2019 held at GNIT campus on 14th & 15th January, 2020



Internal Hackathon for SIH 2020 organized at GNIT on 20th January, 2020

Achievements & Recognition



Press Clips published in different Newspapers regarding the hosting of ICORE 2020 where GNIT was also awarded as the only Educational Institute in the Eastern India to receive the most prestigious SESI Green Award 2020.

GNIT organized a 2 Day Book Fair between 20th and 21st February 2020



GNIT organized alumni meet SAMANWAY 2020: The Annual Homecoming on 22nd February, 2020

Prof. (Dr.) Santanu Kumar Sen's (Principal, GNIT) Article titled "New Buzzword in Academia" published in the leading daily, The Statesman on 4 February, 2020



Achievements & Recognition



Subhajit Kumar Hooi and Tathagata Chatterjee (AEIE, 3rd Year) got the opportunity to attend the Internship Program at Variable Energy Cyclotron Centre, Kolkata.



Six Students (FT, 2nd Year) participated and secured 1st and 3rd position in 15th KONNAGAR SCIENCE FAIR 2020 held between 17th and 19th January, 2020.



Mr. Ishon Mollick & Ms. Piyali Banerjee (2nd Year, FT) and Mr. Sanjay Biswas, Mr. Rohit Chatterjee & Mr. Pratim Chatterjee (2nd year, BHM) secured 1st position & 3rd position respectively in Technical Poster Presentation in CSI-West Bengal State Student Convention 2K19, organized by CSI Student Chapter, JIS College of Engineering on 14th November, 2019

Achievements & Recognition



Dr. Kakali Bandyopadhyay (HOD, FT) was invited by Indian Chamber of Commerce to attend a Workshop on Pradhan Mantri Kisan Sampada Yojana on 19th December 2019 at J W Marriot, Kolkata, West Bengal.



Team Data_Pirates @ Team CSE of GNIT, 2nd Year won the final round of S4DS Hackathon 2020 held at Salt Lake, Kolkata on 1 February 2019.

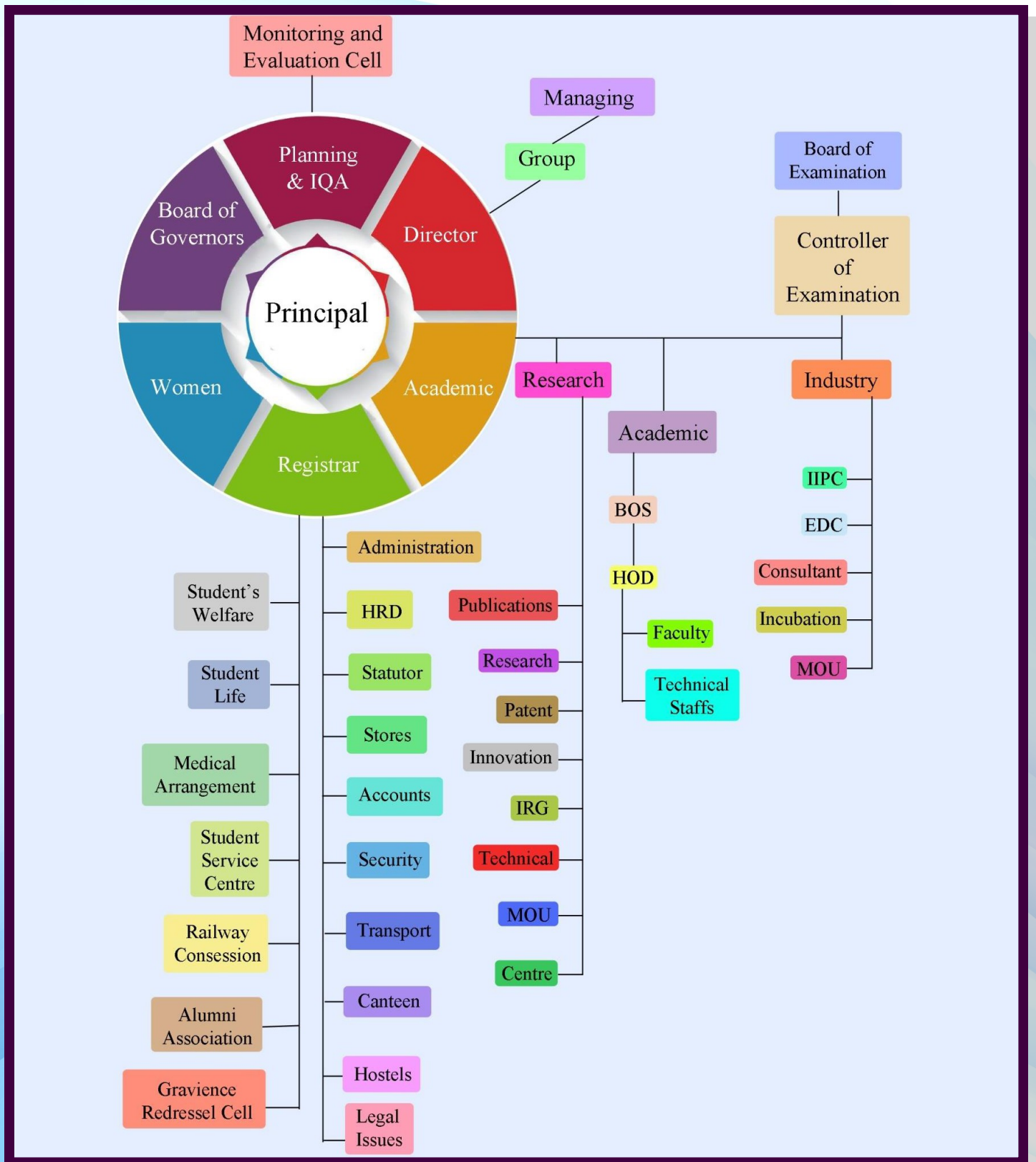


Team GNIT clinched the Champions' Trophy in the Inter-college Football Tournament entitled "Soccer Strike 2019" organized by The SSKM Medical Hospital



Mr. Raktim Chatterjee of CSE Dept. was invited as a DELEGATE for the Harvard College US-India initiative at Taj Hotel, Mumbai on 3rd and 4th January, 2020.

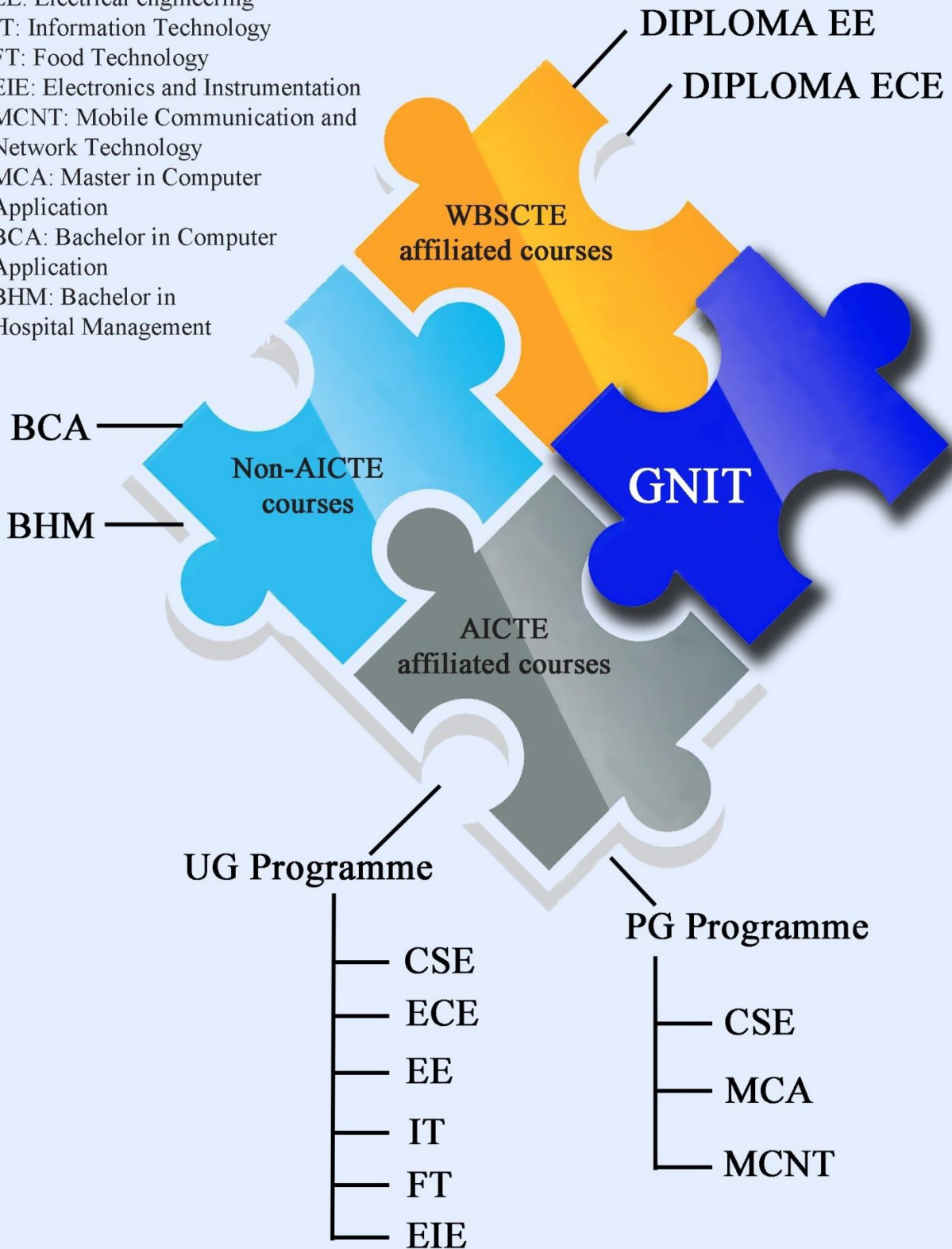
Institutional Organogram



Academic Structure

Abbreviation

CSE: Computer Science and Engineering
 ECE: Electronics and Tele communication
 EE: Electrical engineering
 IT: Information Technology
 FT: Food Technology
 EIE: Electronics and Instrumentation
 MCNT: Mobile Communication and Network Technology
 MCA: Master in Computer Application
 BCA: Bachelor in Computer Application
 BHM: Bachelor in Hospital Management



Administrative Heads



Dr. Santanu Kr. Sen
Principal
GNIT



Dr. Adish Chakroborty
Registrar
GNIT



Dr. Arun Kr. Mondal
Controller of examination
GNIT



Dr. Sucharita Bhattacharya
In-charge
Diploma, GNIT



Dr. Paramita Banerjee
Coordinator
IQAC, GNIT

Departmental Heads



Dr. Sucharita Chakroborty
HOD,
Applied Science & Humanities



Mrs. Ipsita Saha, HOD
Computer Science &
Engineering



Dr. Sunipa Roy HOD
Electronics & Communication
Engineering



Dr. Kakali Bandhopadhyay
HOD
Food Technology



Dr. Barnali Kundu
HOD
Electrical engineering



Ms. Debashruti Ganguly
HOD
Hospital Management



Mr. Chiranjeeb Dutta
HOD
Computer Application



Mrs. Bapita Roy, HOD
Electronics and
Instrumentation



Mr. Sudeep Ghosh
HOD
Information Technology

Admission Report



GURU NANAK INSTITUTE OF TECHNOLOGY

Address: 157/F, Nilgunj Road, Panihati, Sodepur, Kolkata - 700114



Accreditation, Affiliation & Approvals



Awards & Ranks



First Engineering College in India with prestigious



Contact Details

Phone: 91-33-2523-3900
Tel Fax: +91-33-2563-7957
Visit at www.gnit.ac.in
Email: admission.gnit@jisgroup.org

Career Counselling & Admission Helpline

Call us at +91 94320 12681 / +91 90736 83911
Whatsapp: + 91 94320 12681

Associated With



Undergraduate (Full Time): 4 Years

B.Tech

Computer Science and Engineering (CSE)	120 Seats
Electronics and Communication Engineering (ECE)	120 Seats
Electrical Engineering (EE)	120 Seats
Information Technology (IT)	60 Seats
Electronics and Instrumentation Engineering (EIE)	60 Seats
Food Technology (FT)	60 Seats

Undergraduate (Full Time): 3 Years

Bachelor in Computer Application (BCA)	60 Seats
BBA in Hospital Management (BHM)	60 Seats

Diploma Programmes: 3 Years

Electronics & Communication Engineering (ECE)	60 Seats
Electrical Engineering (EE)	60 Seats

Postgraduate (Full Time)

Master in Computer Application (MCA), 3 Years	60 Seats
M.Tech in Mobile Communication and Network Technology Under(ECE) 2 Years	9 Seats
M.Tech in Computer Science and Engineering (CSE) 2 Years	9 Seats

Some of our Recruiters



Admission Report

Sl	UG Courses	General Intake	TFW Intake	Actual Admission	PIO/ Foreign	Actual TFW Admission	Total admission
1	B.Tech - CSE	120	6	120	2	5	127
2	B.Tech - ECE	120	6	120	-	6	126
3	B.Tech - EE	120	6	31	-	6	37
4	B.Tech - IT	60	3	60	-	3	63
5	B.Tech - FT	60	3	49	-	1	50
6	B.Tech - AEIE	60	3	10	-	3	13
1	B.Tech - FT (L)	7	-	7	-	-	7
2	B.Tech - AEIE (L)	50	-	2	-	-	2
3	B.Tech - CSE (L)	13	-	13	-	-	13
4	B.Tech - ECE (L)	22	-	22	-	-	22
5	B.Tech - EE (L)	80	-	32	-	-	32
6	B.Tech - IT (L)	12	-	1	-	-	1
			-		-	-	-
1	M.Tech-CSE	18	-		-	-	-
2	M.Tech-ECE	18	-		-	-	-
3	MCA	60	-		-	-	-
1	BCA	60	-	60	-	-	60
2	BHM	60	-	60	-	-	60
3	DIPLOMA IN EE	60	3	60	-	-	-
4	DIPLOMA IN ETC	60	3	43	-	-	-
	Grand Total	984	33	760	2	24	784

Scholarship

MTech-

Scholarship of @20% on tuition fee (Rs.2,00,000 for 2 years, total course fee is Rs.2,22,100 for 2018-19) i.e Rs.10,000/ per semester is applicable only to the students who have studied their B.Tech in any of the following institutions:

1. JISCE
2. NIT
3. GNIT
4. DSCSDEC
5. GKCEM (JV)

GATE qualified students are also eligible for this scholarship apart from their GATE scholarship from AICTE.

AICTE scholarship/stipend will be provided to the GATE qualified candidates as and when received from AICTE.

Financial assistance for publication in Scopus/Thompson & Reuters indexed journals i.e upto 50% of the publication fee
Classes will be conducted twice a week

B.TECH LATERAL-

Scholarship of Rs.60,000/- @ Rs.10,000/- per semester (Tuition fee is Rs.2,34,000 and total course fee is 2,97,050 for 2018-19) is applicable only to the students who have studied their three years Diploma in Engineering in this institutions:

1. JISSP
2. JISCE
3. NIT
4. GNIT
5. DSCSDEC
6. GKCEM (JV)

Scholarship

MCA-

Scholarship of Rs.45,000/- at the time of admission (Admission Fee: 10000/- + Caution money : 10000/- + Tution Fee : 25000/-) and Rs. 20000/- (Tution fee) in 2nd semester is applicable only to the students who have studied their Undergraduate courses in any of the following institutions:

1. JISCE
2. NIT
3. GNIT
4. GNIPST
5. JISU

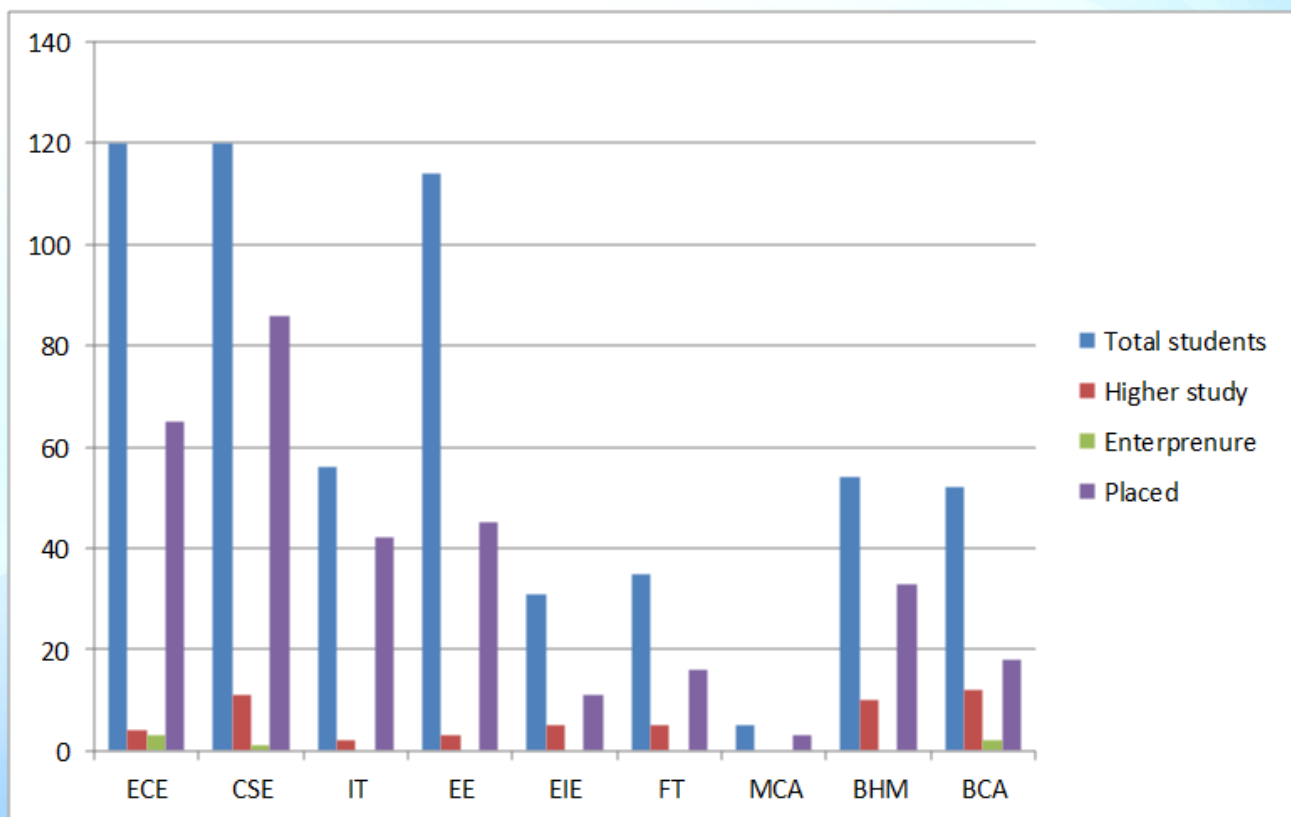
MBA (2 Years)					
Particulars	1st Sem	2nd Sem	3rd Sem	4th Sem	Total Fees
Application Kit (one time)	1000				
Admission Fees(one time)	5000				
Registration Fees (one time)	2600				
Caution Deposit (Refundable)	10000				
Library Fees Per Sem	1000	1000	1000	1000	
Student Activity Fees Per Sem	500	500	500	500	
Tution Fees Per Semester	99600	99600	99600	99600	
Grand Total	119700	101100	101100	101100	423000
Scholarship 30% on Tution Fees (Bet 70%-89%)	89820	71220	71220	71220	303480
Scholarship 25% on Tution Fees (Bet 40%-69%)	94800	76200	76200	76200	323400

Scholarships/ Teaching assistantships are liable to be withdrawn, partially or wholly, in case of misconduct, deliberate concealment of materials/facts and/or supply of false information, and/or continued absence of more than one month except on medical grounds.

Scholarships/Teaching assistantships are liable to be reduced or terminated for a period of up to one semester on account of poor academic performance or not carrying out the assigned tasks in a satisfactory manner.

Training & Placement

Around 117 companies took part in placement of the students in the academic year 2018-19. Some of the major companies which hired our students are. The highest salary offered is **Rs. 9.00 lacs Per annum by Thnik& learn (Byju's)**. The average salary is. Rs. 2.20 lacs Per annum.



Training & Placement

The list of companies

Juspay | Johnson Controls | AsaBhanu | Capgemini | Deloitte | ITC Food Division | Capgemini | DBS | Zensar Technologies | Just Dial | Asahi India Glass | Adobe Systems India Pvt Ltd | Ganesh Products Pvt Ltd | ITC Infotech | TCG Digital | Efrac | DirectI | Prolifics Corporation Ltd. | Franciscan | Nestle | Pinnacle | Poornam | Infosys | IBS Software Services (P) Ltd | Genpact | Pinnacle (Diploma) | VastuVihar | Mindtree | Patel Information Technology Services | TCS | Innoraft | CTS | Kovair | JBM Group | Hearing Plus | Think & Learn (Byjus) | Asahi India Glass | Asahi India Glass | Indusnet Technologies | Techno Electric | Mphasis Ltd | Nerdy Turtlez | BSA Corp Ltd | Fixfin Technologies | Ginesys | Haricons Engineers & Contractors | Vijai Electricals | Stesalit Systems | Go Speedy Go | VastuVihar | Net2Source | Mitsuba Sical India Pvt Ltd | Manikaran | CSM Technologies | IoTivity | Collabera | CloudKaptan | Capgemini | Zicom Electronic Security Systems | Dynamics Finer Info Solution | erp2enterprise | oornam | Centium Electronics Ltd | Vyom Labs | HP Inc. (under the payrole of fidelis group) | Indigo | Linde Group | Tenneco India | Medullus Systems | Morse Systems India | Netpro System | Indigo | Adani Solar (Under the payroll of Addeco) | Gemini Systems | Control Print | Paapri Business Technologies | Tirumala Seven Hills | eClinical Works | Wipro Technologies | Wipro Technologies | Quadrant Suraksha Service | Blue Star | JR Technologies | Keyence India | Atlas Healthcare | CodeAchi Technologies | Hind Rectifier | Ambootia | Ayant Software Pvt.Ltd. | Valued Epistemics | LG Soft India | T-Web Exponent | Newhope Kolkata Animal Feed Private Limited | Ayant Software Pvt.Ltd. | Soft Vision | Aponiar Software | Motherson Automotive Technologies and Engineering | Xento Systems Pvt. Ltd. | Nerdy Turtlez | VAP Technology Pvt. Ltd. | Wizertech Informatics | Rajsriya Automotive Industries Pvt Ltd | Spicejet | New Vision Software | Sonodyne Electronics Pvt Ltd | Hexaware Technologies | VAP Technology Pvt. Ltd. | Netscribe | Irvine Infocom | Shree Balaji Equipments Pvt Ltd | Mantra Labs | Ridhima Enterprise | Passionate

Library Resources

Library Services

The Library is an information resource center providing books, magazines, periodicals, and newspapers. Computers offer Internet access to online databases of full text periodicals and electronic books. The Library offers study rooms, course reserve materials, and photocopy machines.

Reference assistance is available for group and individualized instruction. Apart from faculty, staff, administration and students, Industrial establishments / corporate houses can also avail the services of Library on taking Institutional / Corporate membership of the Library. Library consultation facilities are also available to faculty and students of outside Institutes / Organization on request. The Library, besides having a huge collection of books on engineering, science and humanities offers library services through its various Divisions.

Area: Carpet area 660.43 sq.mt.

Hours of Operation

Other than the holidays and Sundays, library remains opens on

Monday to Friday: 08.00 a.m. to 8:00 p.m.

Saturday: 08.00 a.m. to 5.00 p.m.

Library Resources (Printed Document)

Text Books : 48632

Reference Books: 5199

Hard copy Journal & Magazine : 31

News paper : 5(4 Daily and 1 weekly)

Previous year question paper

Faculty Publication

Student Publication

Student Project Paper

E-Resources

E-books : 1,15,000

E-Journal : 22509

CD/DVD : 3293

E-magazine: 5000+ E-Magazine and premium articles

Library Resources

Institutional Membership

We are collaborated with

On-Line Text based Information for Elsevier – Engg & CS & Scopus-2019

276 no's of online E-journal are fully Downloadable

British Council Library

Best current collection of British books and journals

Training materials

Professional training DVDs

Management Workshops and Video- Screenings

Business English skills development programmers

Exclusive series of workshops

Fully downloadable online resources (90,000 e-books, 7,000 e-journals) with personalized access

Management Information Support Services

Film screenings, musical performances, arts exhibitions and book launches

20 Books & 10 periodicals for three weeks

Two management training video for three weeks

Single login to 115000 full text E-books, 7000 full text e-journals, Literature Online(350,000 full-text works of English and American literature), Zinio (collection of international digital magazines) and IndieFlix (3000 award winning independent movies and short feature)

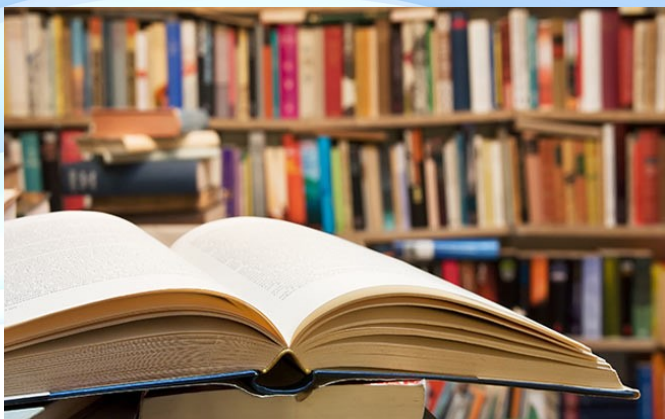
National Digital Library (Govt. of India)

Repository hosts contents for multiple subject domains like Technology, Science, Humanities, Agriculture and Others

Repository integrates contents from different Indian Institutional repositories

Magzter

5000 + Magazine and premium articles for Five User at a time access.



MOU Details

Sl	Name of the Department	Name of Organization Signed MOU	Type (Industry/Academic/Research Institute)	Date	Programming Highlights/ Objective
1.	IT	Balista e-Tech	Industry	01/08/2017	Collaborate with industry for creating synergy of knowledge, innovations and professional expertise.
2.	IT	OGMA Tech Lab	Industry	21/08/2017	Enhancement of Professional Expertise and Knowledge and Training.
3	CA	EjobIndia (wing of Open Solutions for Education India Pvt.	Industry	30/8/2017	Collaborations in Academic Developments, Industry Projects and student internships, R&D, Entrepreneurship Development
4	Institutional	NASSCOM (National Association of Software and	Institute	15/12/2016	NASSCOM Apprentice Programme (NAP), Validity One Year.
5	Institutional	Indian Society for Technical Education ISTE	Institute	23/8/2016	Over all Development of Technical Skill and knowledge
6	Institutional	Institution of Engineer (India)	Institute	11/7/2016	Over all Development of Technical Skill and knowledge
7	Institutional	INFOSYS	Industry	1st May,2020	Under Campus Connect Programme for enriching the technical education process and to jointly work for enhancing the quality of education imparted to students, faculty and management of the college.
8	AEIE	MSME TOOL ROOM Kolkata	Industry	1/08/2018	To enhance knowledge, research activities and professional skills towards the modern technologies and recent trends in the field of automation, cutting edge technology for machining, design and tooling development and engineering support.

MOU Details

Sl	Name of the Department	Name of Organization Signed MOU	Type (Industry/ Academic/ Research Institute)	Date	Programming Highlights/ Objective
9	CSE	Induji Technologies Private Limited	Industry	28/07/2017	Collaborate with industry for student internship, student training, R&D, knowledge exchange.
10	AEIE	Prolific Systems and Technologies Pvt. Ltd.	Industry	24/8/2017	Enhance knowledge, research activities and professional skills towards the modern technologies and recent trends in the field of automation.
11	FT	VedaantAgroBiotech Limited (VABL)	Industry	3/8/2017	Collaborations in Academic Developments, Industry Projects and student internships, R&D, Entrepreneurship Development
12	EE	Electromech&Transtech Pvt. Ltd.	Industry	29/06/2017	The objective of this MOU between Department of Electrical EngineeringDept, Guru Nanak Institute of Technology and Electromech&Transtech Pvt. Ltd. would be to enhance technical skill of students as well as to provide the development of course curriculum as per current socioeconomic demand.
13	ECE	SMD Technologies	Industry	19.7.2016	Software Development, Training, and Technical Education (IT & Core Sector) FOR AIC
14	ECE	Smart Management Consultancy	Industry	3/8/2017	Enhancement of technical skill of students as well as to provide the development of course curriculum as per current socioeconomic demand
15	Institutional	IEEE, USA	Academic	13/12/2017	Research and Development
16	ECE	Ardent Computech Pvt Ltd	Industry	16/2/2018	Over all Development of Technical Skill and knowledge

MOU Details

SI	Name of the Department	Name of Organization Signed MOU	Type (Industry / Academic/ Research Institute)	Date	Programming Highlights/ Objective
17	ECE	Ogma Tech Lab	Industry	16/3/2018	Over all Development of Technical Skill and knowledge
18	ECE	Jadavpur University	Academic	27/9/2018	Over all Development of Technical Skill and knowledge
19	FT	Department of Food Technology of Bundelkhand University (DFTBU), Jhansi	Academic	6/10/2018	The goal of this MOU is to foster collaborative training, research and other activities to provide advancement in scientific knowledge for the benefit of society by enlarge.
20	FT	Smart Management Consultancy	Industry	3/8/2017	Enhancement of technical skill of students as well as to provide the development of course curriculum as per current socioeconomic demand
21	CSE	Globsyn Knowledge Foundation and 3rd Life	Industry	27/07/2019.	To provide student training, student internship, student placement, R&D activities and knowledge exchange.
22	EE	Energy Swaraj Foundation, Mumbai	Industry	25.07.2020	Training on “Learn to design of own Solar Home System”
23	EE	IIFON	Research Institute	IN process	Paid Internship

IT Resources

Hardware

SERVER - 7

DESKTOP - 935

LAPTOP-4

LCD Projector -14

Switches - 57

Firewall And Routers - 1 (Cyberoam 500ing Firewall),

1 (Cisco 2800 router),

1 (CISCO Rv 130 vpn Router)

Printers -39

Color laser Printer - 4

Scanners - 17

Photocopiers -1

Video Conferencing Systems-1

CCTV Cameras - 147



IT Resources

Services

WiFi Bandwidth -

20 Mbps Average from campus Infrastructure from 50 Mbps **Railtel**, 50 Mbps **Alliance** Broadband Lease Line Connection.

1 Gbps CAT6 Intranet - connected

Central Computing Facilities: yes

MHRD's QEEE Infrastructure :

Microsoft Exchange mail server: managed by Hash Technologies

WiFi Facility through the campus: yes

Website hosting all university Details: managed by Hash Technologies

Software

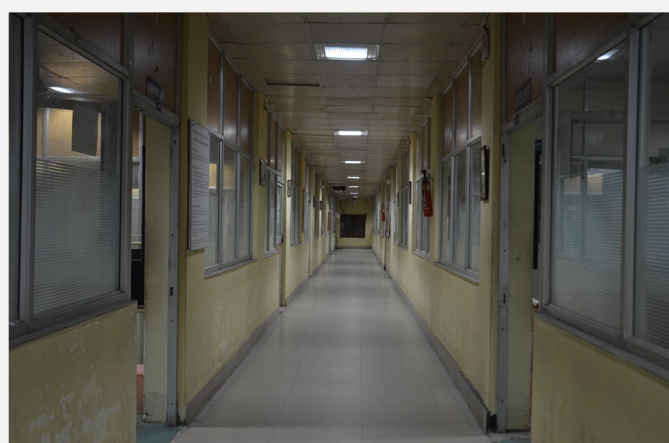
Licensed Software :-

- * Microsoft windows(7/8/10) , Server(2008/2012/2016/2019) And Office 365 (Campus AGREEMENT)

	Department	Software
Application Software	EC	Matlab 2013- 5 user(perpetual) Tanner v 15.2- 5 user(for Ledit) & 5 user(for Sedit) Electronic Device and Service - (1 dvd) -perpetual Mentor Software - 1 nos. VLSI Universal Trainer Kit - 1 nos. VLSI Back End- mentor IC Nanometer Design Bundle (30 users)
	MCA	Microsoft Volume License(as campus agreement).
	IT	Microsoft Volume License(as campus agreement).

IT Resources

	Department	Software
Application Software	FT	Microsoft Volume License(as campus agreement).
	Library	Multiuser LSEase (EJB) Software(LIBSYS 4).
	ASHU	Orell Pro - 60 Users. Autocad 2005-win edu - single user License. Engineer Graohics/Drawing(1 dvd) -perpetual Basic of Mechanical & Civil - (1 dvd) -perpetual
	CSE	Oracle 10.2 Linux version-20 users (perpetual) Photoshop CS6 - 300 points (single license) Fundamental of Computing & programming(1 dvd)-perpetual Microsoft Server 2003 Standard edition (3 CD) - single user Xiline vivado software @25 user pack (Perpetual)
	EE	Matlab 2013 - 10 users(perpetual) My Power - 5 User(perpetual) Multisim 13 - 10 users(perpetual) Pspice (License Expired) Basic of electrical & electronics(1 dvd) - perpetual ETAP Software 19.5 version(5 users Educational Licence)



Events Organized



GNIT celebrated on the eve of New Year 2020 with all the Technical Staff Members, Administrative and Supporting Staff Members.



GNIT organized the 15th Edition of International Congress on Renewable Energy 2020 (ICORE) during 7-8 February 2020.



ASHU Dept hosted a 2-day Workshop-cum-Boot Camp on Science & Language Skills to commemorate National Science Day on 27th and 28th February 2020



Zyzzva 2k20 and Euphonious 2k20: Inter Institutional Cultural Competition was organized at GNIT on 14th and 15th February, 2020.

Events Organized



Workshop on Food Safety Training Program on Hygiene and Sanitary Practices for Anganwadi Center Workers organized by FT Dept in association with CII-FACE on 17th Dec, 2019.



FT Dept @ GNIT in association with the Training and Placement Cell, GNIT had organized Industrial Visit to Dream Bake Private Limited, located at Dhulagarh for 2nd and 3rd year students on 10th



Students of GNIT celebrated SAMPAN 2K19 (Fresher's Welcome 2019) and UJAN 2K19 (Teacher's Day 2019) on 6th September 2019



CA Dept organized a "CLOTHES DONATION DRIVE" on 30 September, 2019 in the Dakshineswar Temple and surrounding area

Events Organized

পুজোর আগে অসহায় দুঃস্থ মানুষদের পাশে দাঁড়ালো 'সোহম ফ্যান ক্লাব' ও 'প্রগতি'

September 28, 2019 admin 0
Comments

নিজস্ব প্রতিনিধি- দেবীপঙ্কজের সূচনার আগে এক
মাসব্যিক উদ্যোগ নীল সোহম ফ্যান ক্লাব ও প্রগতি।
গুরুনানাক কলেজের প্রথম বর্ষের ইলেকট্রনিক্স
এন্ড কমিউনিকেশনের ছাত্র ছাত্রীরা মিলে পঠন
করেছে 'প্রগতি'। কলেজের প্রাক্তন ছাত্র সুমন
করের অনুপ্রেরনায় 'প্রগতি' ও সোহম ফ্যান ক্লাবের
পক্ষ থেকে অসহায় ও দুঃস্থ মানুষদের হাতে তুলে
দেওয়া হল নতুন জামা এবং ছাতা।



ECE Dept. under the guidance
of their Distinguished
Alumni Sri Sumar Kar,
formed a Welfare Club
"Progoti" and donated
Clothes and Umbrella to the
poor People before the Durga
Puja

Prof. (Dr.) Santanu Kr. Sen,
Principal, GNIT along with
Faculties and Students of
ASHU Dept. visited Goonj and
Gobinda Kumar Home (for
Orphans) for donating
CLOTHES and FOOD
PACKETS arranged by
faculties and students



Prof. (Dr.) Santanu Kr Sen,
Principal, GNIT alongwith
Dr. Sucharita
Bhattacharya, Dr. Mainak
Debnath, Dr. Barnali
Kundu, Ms. Somalina
Choudhury, the Team of
Technical Assistants and
Students of GNIT visited
the Old Age Homes and
School and gave them gifts

Events Organized



ECE Dept organized ELECTROFUSION 2K19 in collaboration with IEEE-EDS, Kolkata Section, Ardent Pvt. Ltd. and Institution Innovation Council, MHRD on 23rd September, 2019



GNITc organized Parents' Mentors' Meeting 2019 on 19th October 2019

IIC cell of GNIT has organized Resurrect 2020 on 12th and 13th May, 2020. The goal of the event will be to innovate safety measures and impact analysis of Pandemic, Epidemic and Biological Emergencies, and developing measures to leverage Covid-19 Challenges in the upcoming days.

GNIT
INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiatives)

JIS GROUP
Educational Initiatives

Guru Nanak Institute of Technology
Organizing

Resurrect 2020

Thrust in Innovation to Handle Post COVID-19 Challenges in all Spheres of Life

- Effective Mass Sanitization Equipment/ Large Area Disinfection and Sanitization Techniques
- Start-up Opportunities in Post Corona World
- Managing Global Economic Imbalances
- Supply Chain Management of Necessary Commodities Including Hospital
- Solutions for Contactless and Digital Lifestyle
- Remote Work be Part of the Future
- Communication Tools to Manage the Return Process
- Faster Recovery from Economic Damage
- Health Professionals Training, Management in Post COVID Days
- Impact of Social Distancing, Quarantines and Lockdown in Post COVID Scenario
- Access to Remote Education / Cost Effective Innovation in Mass Education

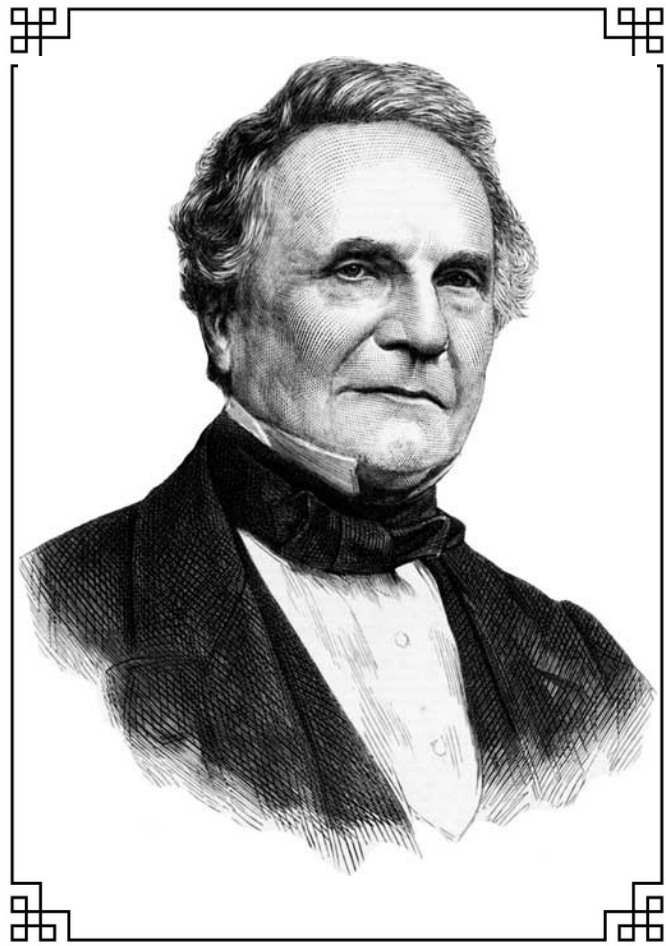
Date of Contest:
12th & 13th May, 2020

Deadline for Idea submission:
7th May, 2020

Apply here:
<https://forms.gle/unX88Vp0tH3RpFNx6>

Team Size: 5 participants & 1 Mentor

Contact Person:
Mr. Tridib Chakraborty
(9231622579)
Mrs. Srabani Kundu
(9902051461)



Errors using inadequate data are much less than those using no data at all.

- Charles Babbage -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Computer Science & Engineering

ANNUAL REPORT

2019-20

Name of the Department: Computer Science and Engineering

Vision of the department

The Vision of the department is to produce proficient graduates suitable for industries and competent for international level including research and development with Social responsibility

Mission of the department

- * Providing learner-centric Teaching-learning process in excellent infrastructure for making the graduates industry ready with social ethics
- * Imparting technical education which enhances Independent thinking, vast domain of knowledge, problem solving skill and optimistic attitudes towards holistic growth of young minds to serve the nation worldwide
- * Strengthening the academic and research sphere of Computer Science domain, the organization makes a journey towards the Centre of Excellence

PEO

- * Graduates of CSE Program will establish themselves as effective professionals by solving real world complex problems through computer science engineering knowledge, analysis and designing techniques
- * Graduates of CSE Program will be able to enhance the thinking ability and effective communication, managerial, innovative problem-solving skills to act as a leader in the society
- * Graduates of CSE Program must acquaint themselves to the rapidly changing sustainable environment by applying modern technologies and lifelong learning
- * Graduates of CSE Program must be able to serve the nation as a team maintaining professional ethics to exhibit good competency in their professional environment

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- * **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO1: To accustom themselves to the rapidly changing sustainable environment by applying their fundamental concepts and methodology of computer systems in terms of software and hardware.

PSO2: To apply fundamental concepts and methodology of computer systems to establish themselves as the successful entrepreneur.

PSO3: To establish themselves as the software developer and innovator by understanding the software development lifecycle and methodologies of software systems.

Brief overview of the department

The Department of Computer Science and Engineering was established in the year 2003 and provides a comprehensive research environment complemented by excellence in teaching. The Department has a number of qualified teachers who encourage the students to get engaged in several extra-curricular and co-curricular activities for them to be successful engineers. The Department of Computer Science and Engineering aims to bring up students as engineers; helping them to build, strong technical acumen, and harness their skills and talents through several cutting-edge technologies and state-of-the-art techniques. The Department also keeps focus on research and development activities and foster innovative. The department focus on holistic development of the students through extra-curricular and co-curricular activities. In addition to escalating technical manpower, the Department also publishes periodically several newsletter and magazines to inculcate creative ventures.

Department of Computer Science & Engineering

Courses Offered:

4 years B.Tech and 2 years M.Tech in Computer Science and Engineering.

CORE STRENGTH:

Computers being used in almost every aspect of life: Automobile Engines, Electronic Devices, Microwave Ovens, Telephones, Medical Diagnostic Equipment, Commercial Aircraft, and Orbital Satellites that deliver cable signals around the world, this area of specialization is one of the fastest growing segments of industry and changing areas of technology. Engineering graduates with degrees in Computer Science and Engineering might find themselves in a variety of environments –Academia and Research (pursuing M.Tech or Phd.), Software Industry (Companies like IBM, TCS, CTS, Capgemini, Tech Mahindra, ITC Infotech), Government Organizations (like DRDO, ISRO, BHEL, BAARC), and PSU (like SAIL, ONGC, Indian Oil, SBI).

The department is a life institutional member of ISCTE and Institute of Engineers (India) .



HOD's message

Computer Science & Engineering department has been in the forefront of imparting quality education to the students. The success of the Department is amply reflected in the outstanding achievements of the students employed both abroad and within the country. Every success is due to the contribution of the well-qualified and dedicated faculty motivating the efforts of the students to reach the top. In addition to the curriculum, our department conducts regular value added course and soft skill programs to meet the ever changing needs of employability. This helps the highly motivated students to understand the dynamics of the industry and to upgrade their skills for higher studies. This Department of GNIT was established in the year 2003 and offers disciplines like B. Tech (CSE) and M. Tech (CSE) by a number of qualified faculty and technical members who engage the students in innovative teaching-learning process to provide a comprehensive research environment complemented. The Department is constantly evolving towards greater heights to serve the needs of the society and meet the aspirations of the student community.

Mrs. Ipsita Saha

HOD, CSE Department

Departmental achievements

Student's achievements

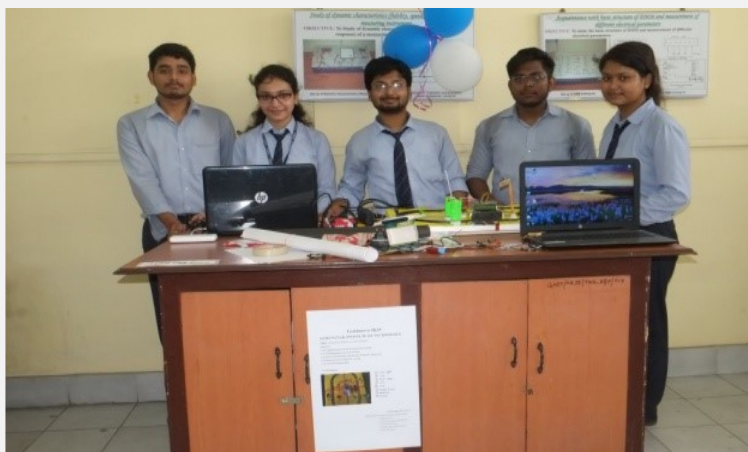


CSE Students Srotoswini Chandra, and Dhiren Lalwani selected in top list to compete in regional round of international coding competition ICPC, Final 2018

Department of Computer Science & Engineering



CSE Students Group BYTE ME UP-Saswata Mukhopadhyay, Supriyo Das, Sandipan Sen, Sinjana Saha, Stood First in Smart India Hackathon'19 held at C. V. Raman College of Engineering, Bhubaneswar.



Group of CSE students, Poulomi kumar, Prothitdas, Sandipkumar karmakar, Rinki Dutta, Suman Roy Choudhury (Team psr rock) STOOD 2nd in Techinnova 2019- Arduino based competition



Group of CSE Students WE LOVE FOOD- Aditya Giri, Yogesh Singh, Amanveer Singh, Suryaruchi Samaddar selected in Smart India Hackathon Grand Finale at NIT, Calicut to be held on 2nd and 3rd March, 2019

- * Soumik Sarkar, Raktim Chatterjee, Rohan Chakraborty, Soumyajeet Kabi and Pritam Kundu won the College Round for City finale in 'InQuizitive Minds 2019' (career Launcher) in July, 2019.
- * Prithviraj Biswas got the Certificate of Appreciation for participating in the 'Live Hands-on IoT' Session in TECHTRONISTA 2K19 in July, 2019.
- * Sounak Majumdar secured the 3rd position in GNIPST fest in singing Competition in July, 2019.
- * Sumana Garani's article was published in the magazine: "Antorjatic Kabimukh" in July, 2019.
- * Soumik Sarkar and Raktim Chatterjee got the runners up award in Tata Crucible Campus Quiz in July, 2019.
- * Shutarba Banerjee, Swarnali Kar and Saswata Dutta were awarded with Elite Class Certificate by NPTEL for the completion of NPTEL Course on C programming on July, 2019.
- * Sohan Kumar Dutta, Subarna Guin, and Pratiti Chanda were the winners of the Group Discussion in the event of National Science Day, July, 2019.
- * Prabhat Kumar, Suvam Gupta, Saransh Jaiswal and Purushottam Thakur got the 2nd Prize in Debate Competition in the event of National Science Day on July, 2019.
- * Swarnali Kar, Payel Dey, Swagata Srimani, Tiyasa Barman and Reshmi Das won the Poster Making Competition in the event of National Science Day in July, 2019.
- * Neela Chattopadhyay, Ashesh Roy Choudhuri, Bipasha Paul and Ankan Goswami participated in S4ds Hackathon on 20th January, 2020.
- * Soumyajeet Kabi, Subhaditya Banerjee, Rohon Chakraborty and Soumik Sarkar won the Model Display Exhibition at JIS-IASR on 28th February, 2020.
- * Biplab Roy was awarded with the Elite Silver Certificate on the completion of NPTEL Course on Introduction to Machine Learning-IIT Kharagpur.

- * Debasish Biswas was awarded with the Elite Class Certificate for the completions of NPTEL Course on Problem Solving through Programming in C – Online ,Jul-Nov, 2019.
- * Ashish Kumar was awarded with the Elite Class Certificate for the completions of NPTELCourse on Programming in Java – Online, Jul-Nov, 2019.
- * Swarnali Karwas awarded with the Elite Gold Class Certificate of the completions of NPTELCourse on The Joy of Computing using Python - Online, Jul-Nov, 2019 and was also the topper of 5% in this course.
- * Payel Deywas awarded with the Elite Class Certificate for the completions of NPTELCourse on ‘The Joy of Computing’ using Python – Online, Jul-Nov, 2019.
- * Shrutarba Banerjee was awarded with the Elite Gold Class Certificate for the completions of NPTELCourse on ‘The Joy of Computing’ using Python – Online, Jul-Nov, 2019 and was also the Topper of 5% in this course.
- * SwagataSrimaniwas awarded with the Elite Class Certificate for the completions of NPTELCourse on The Joy of Computing using Python – Online, Jul-Nov 2019.
- * SubhajitSarkarwas awarded with the Elite Class Certificate of the completions of NPTEL Course on Python for Data Science- Online, Aug-Sep, 2019.
- * Some Sekhar Banerjee was awarded with the Elite Gold Class Certificate for the completions of NPTELCourse on Programming in Java, Jan- Apr, 2020.
- * Shouvik Ghose was awarded with the Elite Gold Class Certificate for the completions of NPTEL Course on Programming in Java, Jan- Apr 2020.
- * Diptomoy Maity is the recipient of the Young InnovatorAward for doing a live project at Plumule Research in September 2019 andgotKRITI AWARD 2019.
- * Diganta Das and BikramjitDas’s combined project “Microcontroller basedBluetooth operated Baby-bed Security System” was selected for CIIInnovation CII-East 2019.Diganta Das and Bikramjit Das also got the KRITI AWARD 2019.
- * Deepak Kumar Shaw is the recipient of the RashtriyaSahitya Academy award and the KRITI AWARD, and his poem is printed on Sahitya Academy's Book,

August, 2019.

- * Saswata Mukhopadhyay was the winner for the presentation on 'An Intelligent Version Control System with a Developed Platform' in the International Knowledge Sharing Week, Russia, 2019.
- * Debleena Dutta stood second with her project on 'Creating a Platform for Mental Health Treatment' in the International Knowledge Sharing Week, Russia, 2019.
- * Anwasha Chowdhury represented GNIT in the Facebook Live Session on "Women Entrepreneurship through the Lens of Higher Education" in QS I-Gauge Re-Think Tank Session (Semi-Final Qualifier).
- * Students of CSE 2ND Year-Pratiti Chanda, Shreya Saha, Prithviraj Biswas, Purushottam Thakur and Sohan Kumar Dutta are short-listed in the Final Round of S4DS.
- * Students of CSE 3rd Year-Saswata Mukhopadhyay, Supriyo Das, Faraz Ali, Sandipan Sau and Nikhil Agarwal are short-listed in the Final Round of S4DS.
- * Students of CSE 3rd year-Srijit Pal, Bipasha Paul, Ashesh Roy Choudhury, Aindrila Majumder and Moinak Majumder are short-listed in the Final Round of S4DS.
- * Sandip Kumar Shaw and Sandip Karmakar have received Best Paper award, for the paper-"IOT based Mobile controlled ORC(Orthospinal round back Curvature)-Kyphosis detection and measurement technique of human spine" in International Conference on Renewable Energy, in 2020 (ICORE 2020), ISBN No: 978935396-201-2.
- * Angshuman Roy was awarded with the Elite Silver Class Certificate for the completions of NPTEL Course on Data Base Management System.
- * Rima Panja was awarded with the Elite Silver Class Certificate for the completions of NPTEL course.

Faculty's achievements

- * Ipsita Saha was selected for Invited Talk at Smart City Office Indore during 10th to 12th July, 2019.
- * Srabani Kundu, Rafiqul Islam, Sangeeta Bhattacharya, Bidyutmala Saha, Amrut Ranjan Jena, Mandira Banik, Sayani Chandra, Nirupam Saha, Moley Dhar, Pallabi Das, Sourish Mitra, Sayantan Nath got KRITI AWARD in recognition of outstanding Mentorship of Students.
- * Srabani Kundu got KRITI AWARD for filing up AQAR and Annual report.
- * Sayani Chandra Got KRITI AWARD in recognition of outstanding support in Event Management and Digital Media and outstanding support in the field of Social Media.
- * Ipsita Saha got IconSWM Excellence Award 2019 for the paper 'Waste Management Strategy of SME Sector towards Environmental Sustainability' presented in IconSWM-CE 2019 at KIIT, Bhubaneswar during 27th -30th Nov, 2019.
- * Dr. Sangeeta Bhattacharya and Ms. Sayani Chandra got NPTEL Elite Certificate in the course on Programming, Data Structures and Algorithms using Python.
- * Ms. Sayani Chandra successfully completed NPTEL Course on Programming in Java and awarded with Elite+Silver Category Certificate.
- * Ms. Sayani Chandr successfully completed NPTEL FDP Course on Programming in Java of duration 1.5 Weeks.
- * Mr. Amrut Ranjan Jena was invited Session Chair in ICACIE Springer Conference.
- * Ms. Srabani Kundu got Best Paper Award in ICACIE Conference, Springer.

- * Mr. Nirupam Saha passed NPTEL Course in Problem Solving through Programming in C with score 100% (Continuous online assessment score) in Jan-Apr 2020.
- * Mr. Sourish Mitra passed NPTEL Course in Problem Solving through Programming in C with score 100% (Continuous online assessment score) in Jan-Apr 2020.
- * Mr. Sourish Mitra received best paper award for his publication with Sandip Kumar Shaw, Sandip Karmakar---“IOT based Mobile controlled ORC (Orthospinal roundback Curveture)-Kyphosis detection and measurement technique of Human spine” which published in International Conference on RenewableEnergy,2020 (ICORE 2020), ISBN No: 978935396-201-2.
- * Ms. Bidyutmala Saha Passed NPTEL Course in Problem Solving through Programming in C with score 99% (Continuous online assessment score) in Jan-Apr 2020.
- * Under Dr. Sangeeta Bhattacharya the team ‘Unbeatables’ got 1st runner up rank in RECONNECT 2020 under her mentorship.

Departmental events

Organized

- * Ms. Srabani Kundu, Mr. Rafiqul Islam, Assistant Professor of CSE Dept, organized a Training on Unix and Shell Programming from 8th July - 17th July, 2019 for 2nd year CSE students to promote the young minds with emerging ideas of Unix and Shell Programming.
- * Dr. Sangeeta Bhattacharya, Mr. Moloy Dhar, Mr. Amrut Ranjan Jena, Mr.

Department of Computer Science & Engineering

Nirupam Saha and Ms. Pallabi Das, Assistant Professor of CSE Dept, organized a Training on Computer Fundamentals and C Programming from 8th July - 17th July, 2019 for 2nd year CSE students to promote the young minds with emerging ideas of Computer Fundamentals and C Programming.

- * Training on Arduino Programming has organized by CSE Department in collaboration with Ardent Computech in CSE Lab from 8th July - 12th July, 2019.
- * Two days Training on Android Development in collaboration with Ardent Computech in CSE Lab from 15th -17th July, 2019.

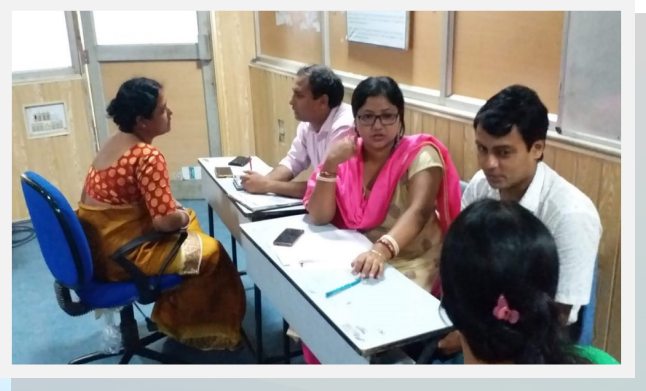


* Department of Computer Science and Engineering, GNIT organized a Group Discussion Competition on 24th July, 2019.

* Department of Computer Science and Engineering, GNIT and Globsyn Knowledge Foundation perform Memorandum of Understanding on 27th July, 2019.

- * One month Workshop on Natural Language Processing by Prof. Tita Kriacopolo Professor, Paris-Est Marne -La-Vallee University has organized by CSE Department with JIS in CSE Lab from 7th - 8th August, 2019.
- * Two days Workshop on "IOT with embedded robotics" organized by CSE Department from 7th -8th August, 2019, where Mr. Subhajit Kundu, Technical Consiltant Webtech Labs, delivered lecture.
- * A Seminar on "Recent Technology and its Application in IT Industry" organized by CSE Department on 14th August, 2019 where Mr. Indranil Roy Chowdhury, Senior Manager, Cognizant Technology Solution delivered lecture.

- * A Seminar on "Big data and Hadoop" organized by CSE Department on 30th August ,2019 , where Mr. Dipankar Saha, Senior Data Architect, Cognizant Technology Solution delivered lecture.
- * A Seminar on "Basics of IoT and its Applications" organized by CSE Department on 19th September, 2019, where Mr. Joydeep Nath, Trainer of MicroPro delivered lecture.
- * Department of Computer Science & Engineering organized PTM for 2nd ,3rd and 4th year students on 19th October,2019.
- * A Seminar on "Deep Learning with Python" organized by CSE Department on 23rd October, 2019 , where Mr. Farman Ul Haque, Trainer, Aspirevision Tech delivered lecture.



- * The IE Student Chapter of Department of Computer Science and Engineering in association with IE student Chapter organized Evaluation of Hardware Projects on 5th November, 2019, where students from CSE department jubilantly participated in groups to design innovative solutions implemented through hardware- based technologies for the future of a technologically



advanced India.

* Department of Computer Science & Engineering published wall magazine "TECH CHAPLET" on 27th September, 2019

* A Seminar on "Computer Vision and reinforcement learning" organized by CSE Department on 7th November, 2019, where Mr. Indranil Das, Technical Analyst, Webskitters Solutions Pvt. Ltd. delivered lecture.



* A Seminar on "Basics of IoT and its Applications" organized by CSE Department on 11th November, 2019, where Mr. Joydeep Nath, Trainer, MicroPro delivered lecture.

* A Seminar on "Cyber Security" organized by CSE Department on 13th November, 2019, where Mr. Abhishek Mitra, CEO & Co- Founder delivered lecture.

* Mr. Moloy Dhar, Assistant Professor of CSE Dept and Mr. Anup Thander, Assistant Professor of ASHU Dept organized a Training on Matlab from 16th -



20th December, 2019 for 2nd year CSE students to promote the young minds with emerging ideas of Matlab and Simulink..

* Dr. Sangeeta Bhattacharya, Ms. Srabani Kundu, Ms. Sayani Chandra, Assistant Professor of CSE Dept organized a Training

on "Python" from 16th -20th December ,2019 for 3rd year CSE students to promote the young minds with emerging ideas of Python.

- * Mr. Nirupam Saha, Mrs. Mandira Banik, Mrs. Bidyutmala Saha, Assistant Professor of CSE Dept organized a One week training on C,C++, Java from 6th - 10th January, 2020 for 2nd year CSE students to promote the young minds with emerging ideas of C,C++, Java .
- * Dr. Sangeeta Bhattacharya , Ms. Pallabi Das, Assistant Professor of CSE Dept organized a Workshop on "Cyber Security" from 6th -10th January, 2020 for 3rd year CSE students to promote the young minds with emerging ideas of Cyber Security.



* The IE Student Chapter of Department of Computer Science & Engineering has organized the inauguration of CSE Newsletter. Our honorable Managing Director Mr. Taranjit Singh, Managing Director, JIS Group inaugurated CSE Newsletter-January, 2020 issue on 21st

February, 2020. All the dignitaries of JIS Group, the members of CSE department including the editor of Newsletter Mr. Pritimoy Sarkar, 3rd year CSE were present at the inauguration ceremony

- * Two days Workshop on "Technology, Employability and Future Trend : Big Data" organized by CSE Department from 21st -22nd February, 2020, where Mr. Abhisekh Ranjan Jha, Senior Developer, Cognizant Technology Solutions delivered lecture.
- * Department of Computer Science and Engineering, GNIT organized a Evaluation of Hardware Projects from 21st -22nd February, 2020

- * A Seminar on "Angular JS" organized by CSE Department on 26th February, 2020 where Mr. Dipankar Dey, Trainer, Webskitters delivered lecture.
- * One day technical Workshop on "Cyber Security and Ethical Hacking through Python" organized by CSE Department on 21st March, 2020, where Mr. Rajeeb Ghosh, Trainer , Ardent Computech delivered lecture.
- * One day technical Webinar on "Artificial Intelligence" organized by CSE Department on 28th March, 2020, where Mr. Rupak Ghosh, Trainer, Aspirivision delivered lecture.
- * One day technical Webinar on "Impact of AI & Data Science" organized by CSE Department on 4th April,2020, where Prof. Kaushik Ghosh, Trainer, Globsyn Knowledge Foundation delivered lecture.
- * Department of Computer Science and Engineering, GNIT organized a International Seminar on 4th April,2020 by Mr. Sougata Dafadar, an alumnus of CSE department regarding his journey from a student to Software Engineer, Mathwork.
- * One day technical seminar on "Machine Learning and Deep Learning" organized by CSE Department on 14th April, 2020, where Dr.Biplab Banerjee ,Assistant Professor, IIT Bombay delivered lecture.
- * Department of Computer Science & Engineering organized PTM for 2nd and 3rd year students on 15th April,2020.
- * One day webinar on "MongoDB" organized by CSE Department on 18th

April,2020, where Mr. Debashish Ghosh, Trainer, Tech Tree Solutions delivered lecture.

- * One day Webinar on "Cyber Security" organized by CSE Department on 19th April,2020, where Mr. Rajinish, Senior Associate Consultant, Tata Consultancy Services delivered lecture.
- * One day Webinar on"Covid-19 Awarness Programme" organized by CSE Department on 30th April,2020, where Dr. Maitreyee Mukherjee, Associate Professor Anaesthesiology, IPGMER and SSKM delivered lecture.
- * Department of Computer Science & Engineering organized Digital Alumni Meet on 3rd May 2020.
- * One day Webinar on "Mobile Application development using Android" organized by CSE Department on 6th May,2020, where Mr.Banibrata Chakraborty, Trainer, Micro-Pro delivered lecture.
- * Department of Computer Science and Engineering, GNIT organized a webinar on "Young Alumni and Entrepreneur to Speak About "Own Enterprise, Blazing New paths"", on 16th May, 2020, where Mr. Vikram Kumar, Chief Technical Officer (CTO) & Director at Sama, recognized by the Ministry of Law and Justice, Government of India and Chief Coordinator at Indian ediation Week (IMW) and Mr. Vishal Srivastava, Emerging Technology and Intelligent Automation Consultant at EY delivered lecture.
- * One day Webinar on "Fighting against Covid19 by Machine Learning" organized by CSE Department on 27th June, 2020, where Mr. Indranil Das, Technical Analyst, Webskitters Technology Solutions Pvt. Ltd. delivered lecture.

Participation by Faculty & Staff

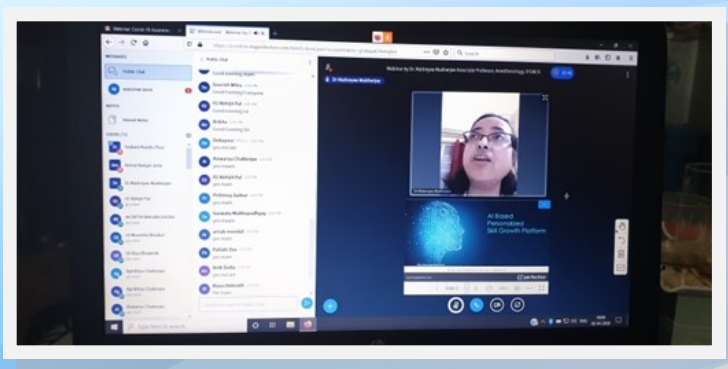
- * Mrs. Srabani Kundu has attended the FDP Program on Recent and Future Trends In Technology organized by GNIT from 27th April to 2nd May, 2020.
- * All faculty of CSE Department attended the Webinar on " Education Roadmap for a Tomorrow " organized by JIS Group on 29th April,2020.
- * Mr.Moloy Dhar has attended the FDP Program on Programming in C++ Methodologies organised by NITTTR Kolkata from 20/04/2020 to 24/04/2020.
- * Mr.Moloy Dhar has attended the FDP Program on Recent and Future Trends In Technology organized by GNIT from 27th April to 2nd May, 2020.
- * Mr.Moloy Dhar has attended the FDP Program on Artificial Intelligence organised by NITTTR Kolkata from 04/05/2020 to 08/05/2020.
- * Mr.MoloyDhar has attended the FDP Program on One week Faculty Development Program on Image Authentication, WSN &IoT organised by JIS College of Engineering from 22/06/2020 to 26/06/2020.
- * Mrs.Bidyutmala Saha attended the FDP Program on Recent and Future Trends In Technology organized by GNIT from 27th April to 2nd May, 2020.
- * Mrs.Srabani Kundu has successfully attended the India's First Leadership Talk with Mr.ShridharVenkat (CEO) AkashayaPatra Foundation Held on 20th June, 2020 by MHRD's Innovation Cell.
- * Mrs.Srabani Kundu has successfully attended Leadership Talk with Shri Dipendra Manocha, (Motivational Speaker) held on 27th Jun by MHRD's Innovation Cell.
- * Mrs.Srabani Kundu has successfully attended Leadership Talk With

Dr.Nilesh N Oak, Expert (Indian Civilization & History) held on 30th May Dr.AbhayJere (Chief Innovation Officer- MHRD Innovation Cell, Govt. of India) Hosting Live session of Leadership Talk With Dr.Nilesh N Oak, Expert (Indian Civilization & History) by MHRD's Innovation Cell.

- * Mrs. Srabani Kundu has successfully attended Leadership Talk with ShriDipendraManocha, (Motivational Speaker) held on 27th Jun by MHRD's Innovation Cell.
- * Ms.Sayani Chandra has attended the FDP Program on Recent and Future Trends In Technology organized by GNIT from 27th April to 2nd May, 2020 .
- * Ms.MandiraBanik has attended the FDP Program on Recent and Future Trends In Technology organized by GNIT from 27th April to 2nd May, 2020.
- * Dr.SangeetaBhattacharya,Mrs. SrabaniKundu, Ms.Sayani Chandra and Mr.MoloyDhar attended STTP under AQIS from 6th to 11th January,2020.
- * All faculty members of CSE Department successfully completed the FDP on "Python with Machine Learning" from 23rd to 27th July, 2019 (1 week) by Ardent ComputechPvt. Ltd. organized by Department of CSE, GNIT .
- * FDP on "Recent and Future Trends in Technology " from 27th April to 2nd May, 2020 organised by Departments of ECE & EE, GNIT in coloboration with MHRD Innovation Cell.
- * Mr.Amrut Ranjan Jena attended AICTE sponsor FDP from 16-21Dec-2019 on ML & Data analytics
- * Mr.Amrut Ranjan Jena attended the FDP on GIS sensor from 7th-10th July-2020.
- * Dr.Sangeeta Bhattacharya, Ms.IpsitaSaha, Ms.Pallabi Das, Ms.MandiraBanik,Mr. SourishMitra and Mr.Rafiquel Islam have attended the

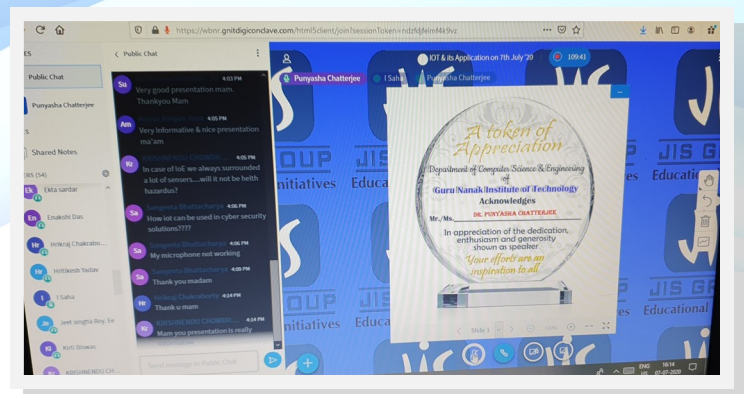
FDP Program on Recent and Future Trends In Technology organized by GNIT from 27th April to 2nd May, 2020

- * Dr.Sangeeta Bhattacharya and Mrs.BidyutmalaSaha has attended Webinar on "Intervention of alternative medicine for tackling and controlling COVID-19" on 29th June,2020.
- * SrabaniKundu, BidyutmalaSaha have attended India's First Leadership Talk with Mr.ShirdharVenkat (AkshayaPatra Foundation) and Dr.AbhayJere (Chief innovation Officer MHRD Innovation Cell) on 20th June, 2020 .This event has organized by MHRD Innovation Cell.
- * All faculty members and JTAs have attended Passion Ethics Professionalism Talk on " Setting up a new age incubation centre and promoting alternate innovation fund to promote cutting edge modern-day Entrepreneurship" organized by GNIT in collaboration with Incubation Farm Pvt. Ltd.(iFARM) on 20th June ,2020.
- * All faculty members and JTAs have attended Webinar on"Re-Bootng for a Better World " by Mr.KalyanKar, Co-Founder and Director, InQubeInnoventures on 20th June,2020.

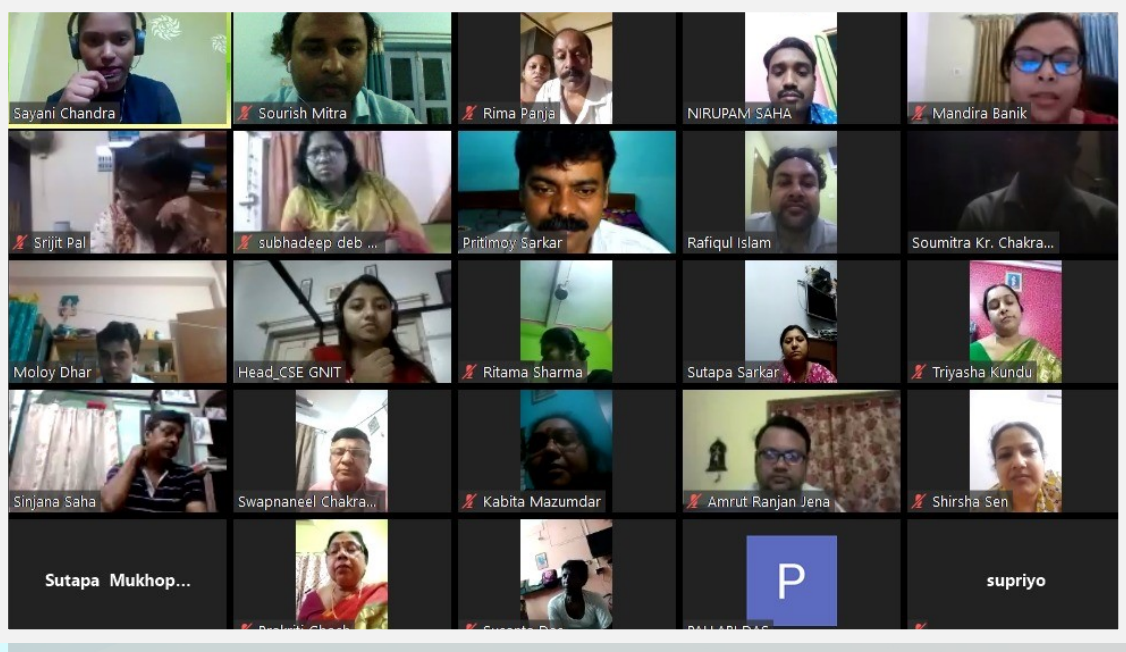


"Covid-19 Awareness Programme" organized by CSE Department on 30th April,2020

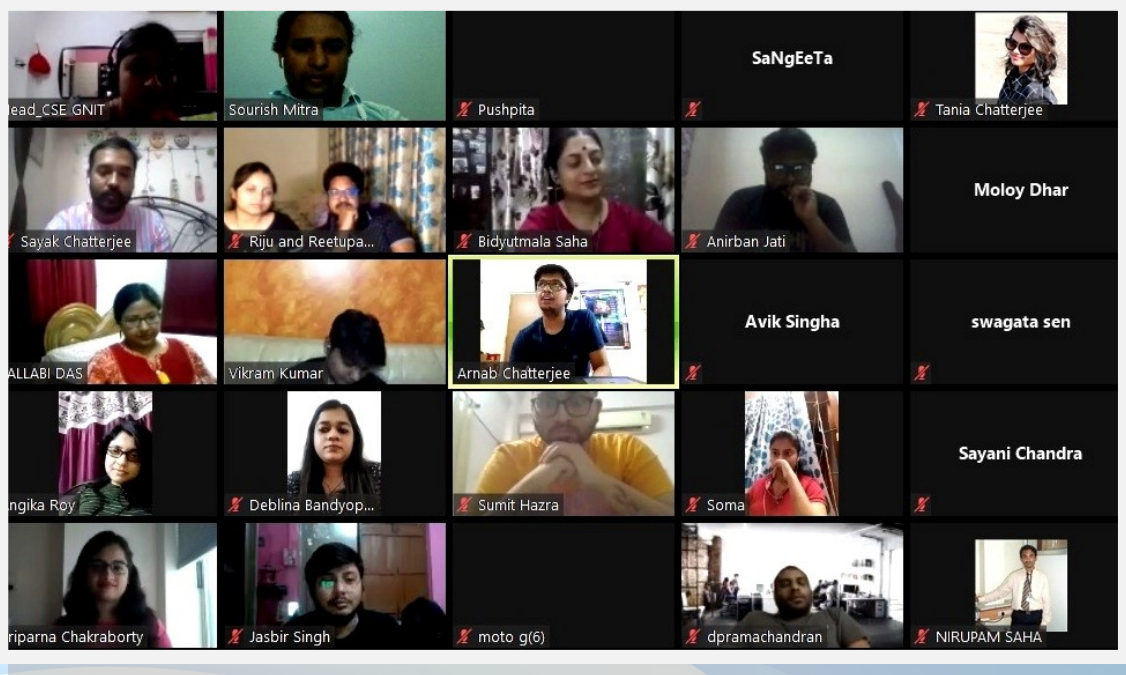
"Basics of IoT and its Applications" organized by CSE Department on 11th November, 2019



Department of Computer Science & Engineering



Department of Computer Science & Engineering organized PTM for 2nd ,3rd and 4th year students on 19th October,2019



Digital Alumni Meet on 3rd May 2020.

- * ONE WEEK FACULTY DEVELOPMENT PROGRAM ON CLOUD COMPUTING Organized By COMPUTER SCIENCE & ENGINEERING from 6th Jan to 10th Jan, 2020.

Advisors:
Dr. Annapurna Das, Director, GNIT
Dr. Sisir Kumar Das, Dean, GNIT

Chairman:
Dr. Santanu Kumar Sen, Principal, GNIT

Convener:
Ms. Sraboni kundu, Asst. Prof. & TIC, Dept. of CSE

Coordinator:
Mr. Nirupam Saha, Asst. Prof., Dept. of CSE

Organizing Committee:
Mr. Rafiqul Islam, Asst. Prof., Dept. of CSE
Mr. Moloy Dhar, Asst. Prof., Dept. of CSE
Mr. Sourish Mitra, Asst. Prof., Dept. of CSE
Mr. Krishnendu Choudhury, JTA, Dept. of CSE
Mr. Suraj Choudhary, 4th Year CSE Student
Ms. Ritika Mondal, 3rd Year CSE Student
Mr. Rajarshi Saha, 2nd Year CSE Student

Contacts:
Mr. Nirupam Saha,
Asst. Prof., Dept. of CSE
Email ID: Nirupam.saha@gnit.ac.in
Mobile No: 3062659358

Ms. Ritika Mondal
3rd Year CSE
Student
Email ID: ritzz2507@gmail.com
Mobile: (+91) 9051360193




**ONE WEEK FDP
ON
CLOUD COMPUTING
6th Jan to 10th Jan, 2020**

---Organized by---
**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

GURUNAK INSTITUTE OF TECHNOLOGY
157/F, NILGANJ ROAD, PANIHATI, SODEPUR, KOLKATA-700114

Preface: "Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities. This faculty development programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to Internet of Things and is open for Faculty members, Research Scholars as well as students of engineering, MCA and other allied degree colleges from states and UTs mentioned above.

Major usage areas:
Introduction to Cloud computing & its applications □ Python Programming and NoSQL databases □ Socket Communication and building local web server □ Introduction to AWS and Microsoft Azure □ Introduction to Digital Ocean Cloud and its deployment using mongoDB □ Deploying python on Amazon Web services □ Security in cloud and its encryption algorithms □ Building MQTT Network and its integration on Digital Ocean □ Building and deployment on Digital Ocean using Node RED and Node.js

Last date of receiving duly filled in Registration form: 5th Jan, 2020.

- **Workshop Date:** 6th – 10th January, 2020
- **Venue:** Seminar Hall, GNIT

Topics of Workshop

- Introduction
- Benefits of Cloud Computing
- Types Of Cloud Computing
- Services and Uses of Cloud
- Hands On

Resource Persons

1. **Dr. Amian Chakrabarty**
Associate Professor & Head A. K. Choudhury School of IT,
University of Calcutta.
2. **Dr. Soumya Sen**
Assistant Professor, A. K. Choudhury School of IT,
University of Calcutta.
3. **Mr. Sangeet Saha**
TCS Research Scholar, University of Calcutta
4. **Mr. Tridib Chakrabarty**
Assistant Prof. Of IT Department,GNIT
5. **Dr. Koushik Roy**
West Bengal State University

- * ONE WEEK FACULTY DEVELOPMENT PROGRAM ON Machine Learning Using Python Organized By COMPUTER SCIENCE & ENGINEERING from 29.6.20 to 3.7.20.

Advisors:
Dr. Annapurna Das, Director, GNIT
Dr. Sisir Kumar Das, Dean, GNIT

Chairman:
Dr. Santanu Kumar Sen, Principal, GNIT



Convener:
Ms, Sraboni kundu, Asst. Prof. & TIC, Dept. of CSE

Coordinator:
Mr. Nirupam Saha, Asst. Prof., Dept. of CSE

Organizing Committee:
Mr. Rafiqul Islam, Asst. Prof., Dept. of CSE
Mr. Moloy Dhar, Asst. Prof., Dept. of CSE
Mr. Sourish Mitra, Asst. Prof., Dept. of CSE
Mr. Krishnendu Choudhury, JTA, Dept. of CSE
Mr. Suraj Choudhary, 4TH Year CSE Student
Ms. Ritika Mondal, 3RD Year CSE Student
Mr. Rajarshi Saha, 2ND Year CSE Student

Contacts:
Mr. Nirupam Saha,
Asst. Prof., Dept. of CSE
Email ID: Nirupam.saha@gnit.ac.in
Mobile No: 3062659358

Ms. Ritika Mondal
3RD Year CSE
Student
Email ID: ritz2507@gmail.com
Mobile: (+91) 9051360193



ONE WEEK FACULTY DEVELOPMENT PROGRAM ON

Machine Learning Using Python
29.6.20 to 3.7.20

---Organized by---
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GURUNANAK INSTITUTE OF TECHNOLOGY
157/F, NILGANJ ROAD, PANIHATI, SODEPUR, KOLKATA-700114

Preface : This faculty development programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to Internet of Things and is open for Faculty members, Research Scholars as well as students of engineering, MCA and other allied degree colleges from states and UTs mentioned above. This Course gives you detailed information about the configuration of services in AWS cloud infrastructure, main course is focused on IAAS, where we have to configure each and every service. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the Workshop:
The proposed FDP introduces concepts of Python and Machine Learning. It covers an overview of Machine Learning algorithms and their applications. The training comprises of a series of lectures and practical exercises. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation to a deeper study in this area. Power dissipation is the main constrain when it comes to Portability. Consumer of the mobile device demands more features and extended battery life at a lower cost. About 70% of users demand longer talk and stand-by time as primary mobile phone feature. Top 3G requirement for operators is power efficiency. Customers want smaller & sleeker mobile devices. This requires high levels of Silicon integration in advanced processes, but advanced processes have inherently higher leakage current. So there is a need to bother more on reducing leakage current to reduce power consumption.

Course Evaluation:

Continuous assessments at logical intervals. Assessment includes MCQ's, Fill in the Blanks, True/False and/or scenario based questions.

Important Dates

Last date of receiving duly filled in Registration form: **28.6.20.**

- **Workshop Date: 29.6.20 to 3.7.20**
- **Venue: Seminar Hall, GNIT**

Topic for Workshop

- Introduction of Machine Learning
- Basic mathematics for Machine Learning
- Introduction to Python Programming Language
- Concept of Machine Learning using Python
- Hands on

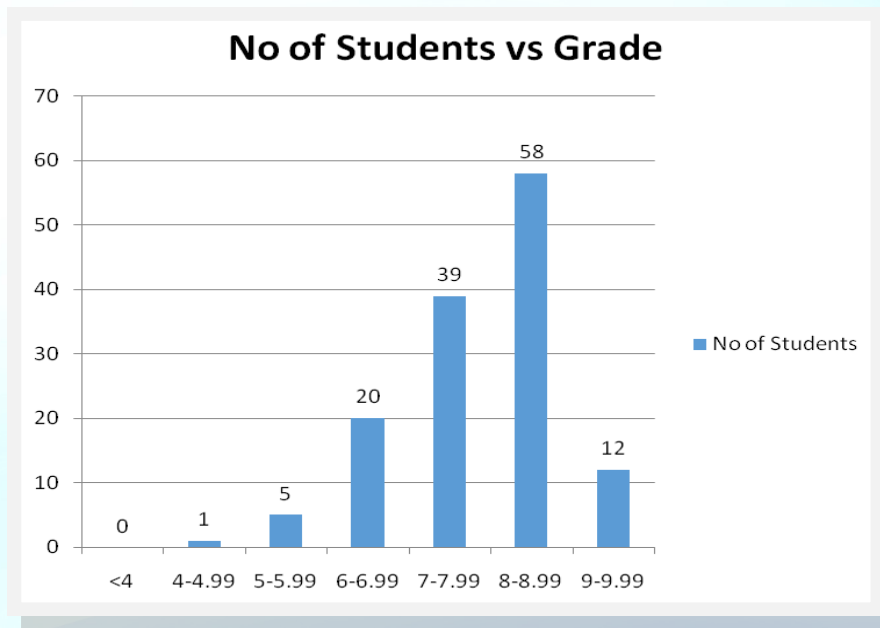
Resource Person

1. **Dr. Amlan Chakraborty**
Professor & Head A. K. Choudhury School of IT,
University of Calcutta
2. **Dr. Soumya Sen**
Assistant Professor & Head A. K. Choudhury School of IT,
University of Calcutta
3. **Dr. Bidyut Kumar Medhya**
Professor NARULA INSTITUTE OF TECHNOLOGY
4. **Mr. Rajmohan Dey Sarkar**
Founder and COO, Ardent Computech. Pvt. Ltd.
5. **Mr. Tridib Chakraborty**
Assistant Professor, GNIT

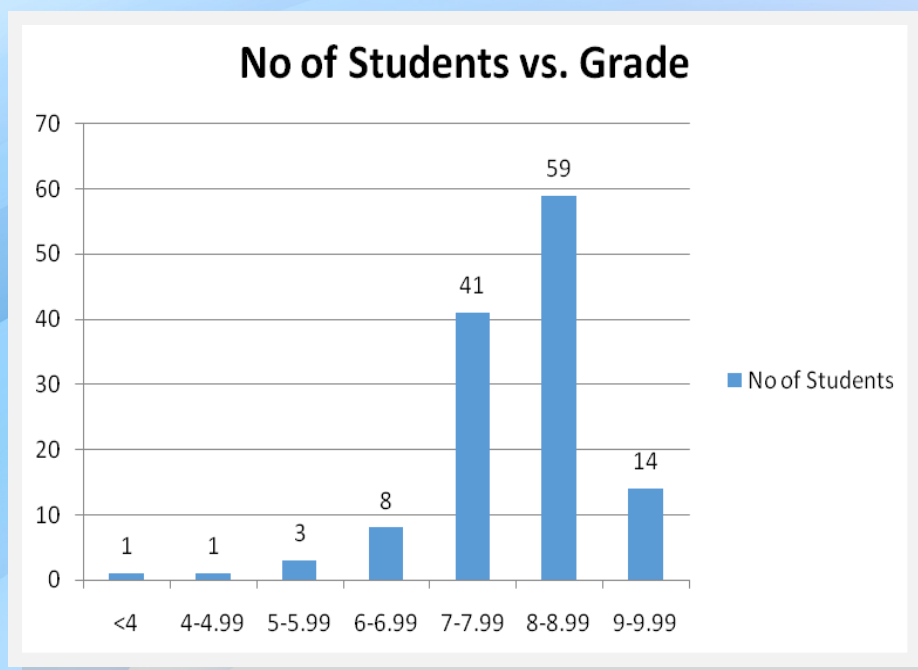
Result Analysis

SGPA WISE RESULT ANALYSIS (CSE) AY 2019-20

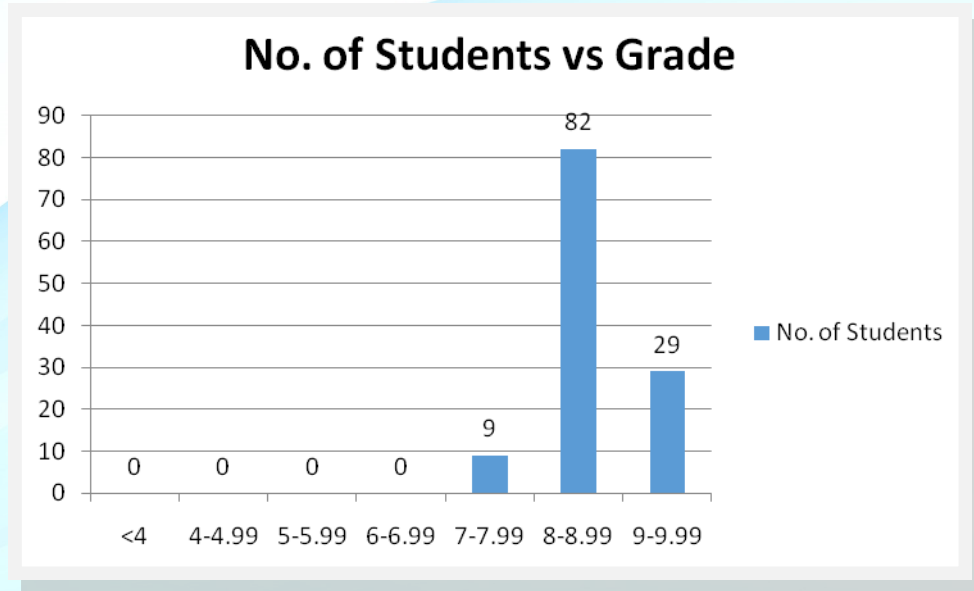
SGPA-wise Result Analysis (CSE 2ND YEAR)



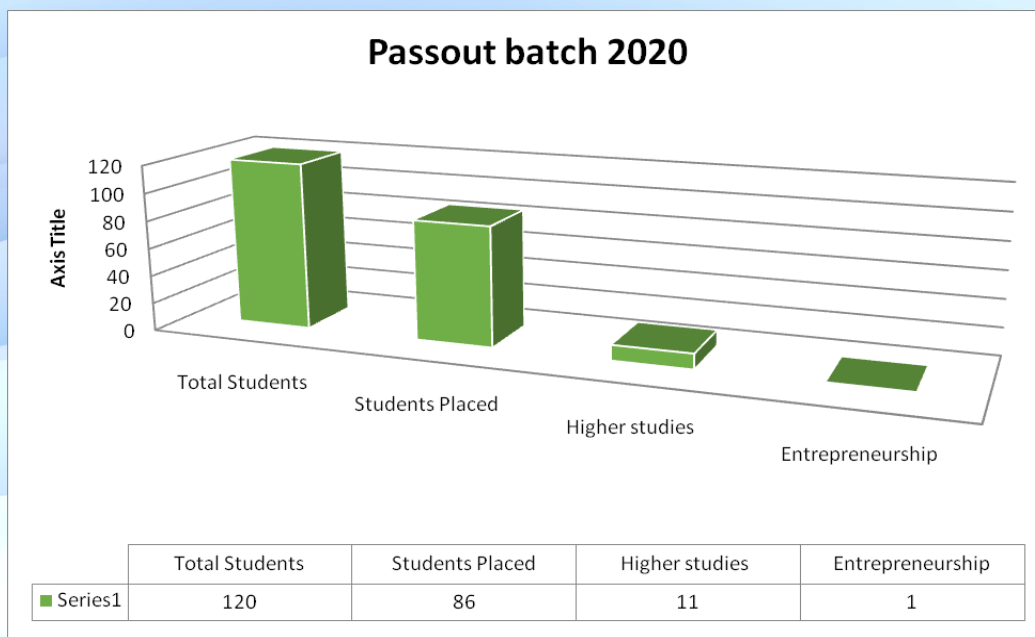
SGPA-wise Result Analysis (CSE 3rd YEAR)

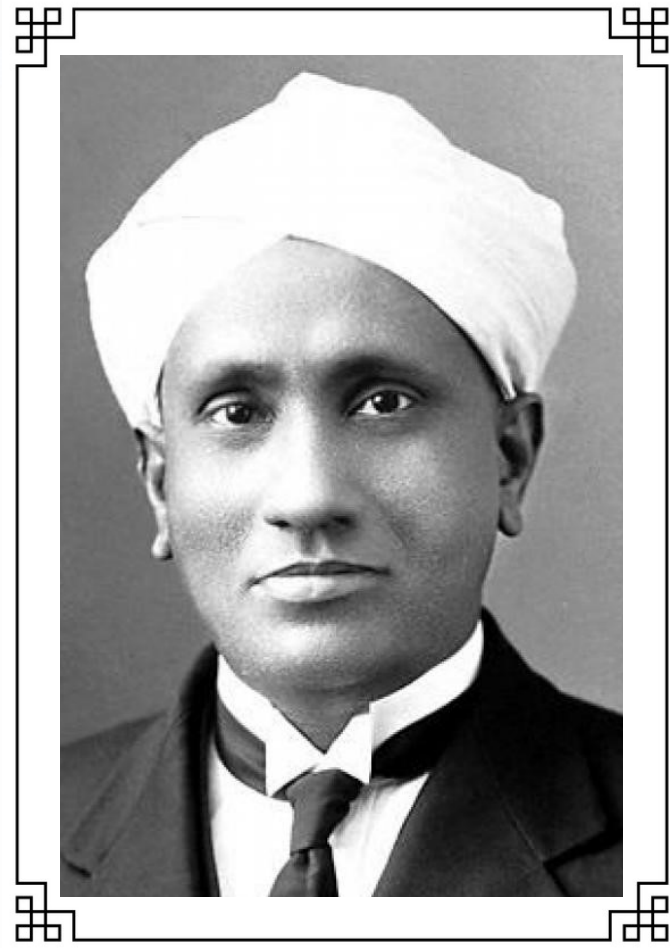


SGPA-wise Result Analysis (CSE 4th YEAR)



Placement and higher studies





**Ask the right questions, and nature
will open the doors to her secrets**

- C V Raman -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Electronics & Communication
Engineering

ANNUAL REPORT

2019-20

Name of the Department: Electronics and Communication Engineering

Vision of the department

Impart quality education to create centre of excellence in Electronics and Communication Engineering Education and Research that produces world class technocrats and entrepreneurs

Mission of the department

- * To educate our graduate engineers, to develop and deliver Quality academic programs in emerging and innovative field of engineering to empower the undergraduate engineering students to meet Industry Standards.
- * To empower practicing engineers with the state of the art technology to meet the growing challenges of the industry and society.
- * To carry out high quality research through constant interaction with research organizations and industry.

PEO

PEO I: Graduates of ECE program will be able to understand the concept of core electronics subjects to embed a strong foundation in the engineering fundamentals to solve, analyze and design real time engineering products.

PEO II: Graduates of ECE program expose themselves to emerging edge technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills and leadership qualities.

PEO III: Graduates of ECE program must have interdisciplinary learning capabilities that help themselves to opt for better career by acquiring higher education.

PEO IV: Graduates of ECE program will be able to learn and innovate in ever changing global economic and technological environment maintaining professional discipline and high ethical standard.

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- * **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO 1: The ability to absorb and apply fundamental knowledge of core Electronics and Communication Engineering subjects in the analysis, design, and development of various types of integrated electronic systems as well as to interpret and synthesize the experimental data leading to valid conclusions.

PSO II: Competence in using electronic modern IT tools (both software and hardware) for the design and analysis of complex electronic systems in furtherance to research activities. Identify indigenous materials and methods for producing high quality, compact, energy efficient, eco friendly entertainment and consumer goods at affordable price.

PSO III: Excellent adaptability to changing work environment, good interpersonal skills as a leader in a team in appreciation of professional ethics and societal responsibilities.

Brief overview of the department

The Electronics and Communications Department commenced in the year 2003 and now runs one undergraduate, one postgraduate program (M. Tech in Communication), Ph. D. program under JIS University/MAKAUT and also one 3 years diploma program affiliated by WBSCTE. The programs offered by the department are the most sought after branch in Engineering by top WBJEE rank holders and other aspirants from across the country. All the programs are accredited by NAAC the undergraduate program is accredited by National Board of Accreditation (NBA) which is compulsorily outcome based, planned to meet the Industry needs and also Research organization. The program contents are upgraded on annual basis with involvement from industry experts, academia and reputed research institutions.

Experienced faculty members all of whom are engineering postgraduates and most of them with PhDs as well, support three core specializations (VLSI & Microelectronics, Communication, Image processing & Embedded system) in the Department. The curriculum includes a strong self-study component and mini projects at all levels so as to develop the students' independent analytical abilities. Opportunity for innovation and incubation is provided at this stage to successful projects by the institute for industrial standards. The department offers financial support to its young faculty for cutting edge research and also encourages them to undertake sponsored research from industry and government agencies. Presently several projects sponsored by UGC, AICTE are under way in the department. Also, department provides healthy environment to students and faculties to carry out inter department collaborative research in area like robotics, human computer interface, SMART sensor etc. Software Simulation environment (MATLAB, Ansoft HFSS, ORIGIN Tanner EDA Tools, FPGA, Intellisuite, COMSOL, VISSIM etc.) and state of the art are available.

Having undergone such a robust academic program under the supervision of highest quality faculty members, all passing out students of the department are capable of envisage, planning and developing big projects of commercial and research interests in their respective field of expertise.

We strive to train and empower our students who will make the world a better place by using power of engineering principles, techniques and systems.

Welcome to our Department!

publishes periodically several newsletter and magazines to inculcate creative ventures.

HOD's message

Dr. Sunipa Roy - Being the HOD of Electronics and Communication Engineering department, I am pleased to convey my opinion about the departmental development which offers four years full time B-TECH program in ECE since 2003. The course is accredited by NBA. The average passing result is excellent in the department. Almost 10-15% students scored above 9 DGPA. Apart from this we are running P.G. Programs, M-TECH in Electronics & Communication Engineering (MCNT) since 2009. The department of ECE offers premier professional technical training that keeps in pace with the latest developments in the field of Electronics and Communication Engineering. We have excellent infrastructure, highly experienced faculties and professionals, associated with research work which collectively ensure dynamic and vibrant environment in the campus. Some of the Faculty members of this department went to attend International Conferences in abroad. The department organized so many International & National Educational Programs (i.e. IEEE sponsored Seminars, international conference- published in IEEE Xplore Digital Library, Faculty Development Programs and one day educational Industrial visit). There are so many events like Paper presentation, Poster presentation, Technical Quiz contest, Technical Report writing Contest & Technical Workshop. There are more than 100 publications are done by the faculty & students in National & International Journals & Conferences. Furthermore six UGC projects, one MODROB are completed in last few years with consultancy. Many of our Alumni are settled in abroad and also many of the students are placed in so many reputed Govt sectors and Private Sectors Company and Research Organizations. There is also separate Departmental Library in the ECE department. There are so many high valued simulation software are present in our department like Tanner SPICE, Mentor Graphics, Matlab 2014b, TCAD, HFSS, Qualnet, COMSOL Multiphysics, Intellisuite, TMS Kit with Code Coposer Studio etc. We have also Project lab in our department.

Dr. Sunipa Roy

HOD, ECE Department

Departmental achievements

Student's achievements

Academic Achievements

Sl No	Name of Student	Current Semester	YGPA score (last odd and even of 2020)
1	Ayushi Bhawal	8 th – ECE 1	10
2	Sayan Chowdhury	8 th – ECE 2	10
3	Pratik Chakraborty	6 th – ECE1	9.91
4	Sanchari Saha	6 th –ECE2	9.98
5	Ankita Sarkar	4 th - ECE1	9.81
6	Rohan Kumar Banerjee	4 th - ECE2	9.85

Cultural, Sports, External Projects, Research, etc

Sl No	Name of Student	Achievement Description	Month and Year of achievement
1	Ayon Maji , Atanu Kumar Bag , Dibyendu Palit	Selected for SIH 2020 (Internal)	Please put
2	AGNIVA DUTTA	KRITI 2019 AWARD FOR YGPA > 9 POINT AWARD FOR HIGHEST DGPA IN COLLEGE JIS GROUP Research Excellence award	October 2019
3	Ankan Das, Atanu Kumar Bag , Ayon Maji	KRITI 2019 FOR EXCELLENCE IN PROJECT AND RESEARCH WORK JIS GROUP AWARD FOR RESEARCH WORK	October 2019

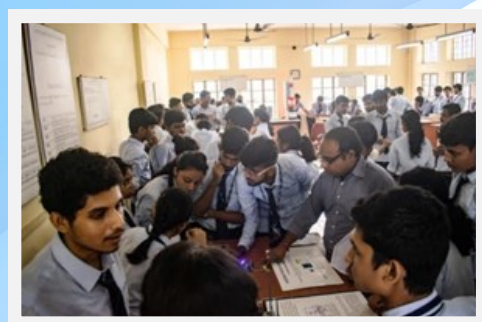
Sl No	Name of Student	Achievement Description	Month and Year of achievement
4	Santanu Kumar Saha, Sovon Deb Pal, Subhasish Pal	S4DS Innovation Hackathon (15.10.2019) Selected for Final Round	October,2019
5	Rimona Dutta, Sayan Chowdhury, Sayantani Dawn, Sarangi Sarkar, Sumantrana Dutta, 6Souvik Mondal Sonali Mitra, Priya Kumari, Shriparna Deb, Sarita Maity, Sayan Das, Satyakee Das, Riya Sarkar Debolina Chatterjee, Sayan Chowdhury, Oindrila Ghatak, Ritobina Sinha, Sanchari Saha, Samarjit Kundu,	NPTEL ELITE(GOLD & SILVER) Session- Jul-Dec, 2019	December, 2019
6	Debaparna Dasgupta	KRITI 2019 AWARD FOR CULTURAL EXCELLENCE	October,2019
7	Chandrima Shyams	KRITI 2019 AWARD FOR CULTURAL EXCELLENCE	October,2019
8	Agniva Sen	KRITI 2019 AWARD FOR CULTURAL EXCELLENCE	October,2019
9	Bishakha Halder	KRITI 2019 AWARD FOR CULTURAL EXCELLENCE	October,2019
10	Barnali Guha, Ishita Das, Durga ShankarnRoy, Manisha Mandal, Abhishek Roy	Special Mention Award – Team Corbett Zoo Hackathon	
11	Ayusha Biswas	First Prize winner in Mixed Doubles TT Champion at Indian Maritime University on 10th Nov'19	November, 19
12	Ayusha Biswas	First Prize winner in Womens Singles TT Champion at Indian Maritime University 10th Nov'19	November, 19
13	Pushpanjan Saha (DETCE)	Semi finalist in Mens Singles TT Championship at Indian Maritime University 10th Nov'19	November, 19

SI No	Name of Student	Achievement Description	Month and Year of achievement
14	Riya Sarkar	Best Paper Award in ICORE 2020	February, 20
15	Ahmed Reza	Best Paper Award in ICORE 2020	February, 20
16	Sarita Maity Abir Das Torsa Mukherjee Suman Mallick Ritobina Sinha Sreya Bhattacharya Samarjit Kundu Shobhandeb Paul Joy Das Kushal Ghosh Gulshan Kr Jha Anup Kr Jha Madhurima Mallick Ananya Biswas	NPTEL ELITE(SILVER & ELITE) Session- Jul-Dec, 2019	December, 2019
17	Mrinmoy Kar	1st position in E-RRADICATE 2020 - COVID-19, Innovation Challenge,	10th and 11th April 2020
18	Shobhondeb Paul	8th position in E-RRADICATE 2020 - COVID-19, Innovation Challenge,	10th and 11th April 2020
19	Senjuti Mazumdar	7th position in Mastermind Challenge	11th April 2020
20	Uddipan Chowdhury	KARATE championship - won silver	15.03.2020

Sl. No.	Name of the Activity	Date	Participants	Organized by	Programming Highlights/ Objective
1	Fashion Walk	23.2.2020	Bishakha Halder	t2 Spotlight Telegraph	Represented GNIT to the finals in fashion Walk t2 Spotlight 2020
2	NCC training (Commando) Organized by: National Cadet Corps,	15.07.19	Aviroop Mondal	GOI	Commando
3	TT Player	10.11.2019	Ayusha Biswas	A Indian Maritime University	First Prize winner in Mixed Doubles TT Champion
4	Classical Dancer	Through out the year	Debaparna Dasgupta	Different organisation	Represents GNIT and won many awards as a classical dancer
5	Classical Dancer	Through out the year	Chandrima Shyams	Different organisation	Represents GNIT as a classical dancer
6	Short Film Maker	Through out the year	Indranil Dasgupta	Self	Makes short films for different competitions
7	Fashion Walk	08.08.2019	Agniv Sen	Adrija	Represented GNIT in many Fashion Walk

Department of Electronics & Communication Engineering

Sl. No.	Name of the Activity	Date	Participants	Organized by	Programming Highlights/
8	Table Tennis Player	10.11.2019	Pushpanjan Saha	Indian Maritime University	Winner of Men's single TT Competition
9	Fashion Walk	08.08.2019	Bishakha Halder	Adrija	Represented GNIT in many Fashion Walk
10	Chhatra Yuva Utsav	08 and 09 th Feb, 2019	Chandrima Shyam	GNIT	1 st prize in Rabindrik Dance
11	National Science Day	07.07.2019	Ayon Maji , Atanu Bagh , Saikat Dey , Ankan Das	ASHU	NPTEL Elite Class
12	S4DS Innovation Hackathon	15.10.2019	Santanu Kumar Saha, Sovon Deb Pal, Subhasish	GNIT	Selected



- * To reiterate the efforts towards our PM's vision, All India Council for Technical Education (AICTE), Inter Institutional Inclusive Innovation Center (i4c) and Persistent Systems is proud to propose the 3rd edition of this initiative Smart India Hackathon 2019.
- * This is to inform all concerned that as per the directives of MHRD, Smart India Hackathon, we have to organize an Internal Hackathon first from which selected teams will finally participate in SIH 2020.
- * Accordingly we have scheduled the **Internal Hackathon for both software and Hardware on 20 January 2020**
- * Team Members: Ayon Majhi, Ankan Das, Atanu Bag, Dibyendu Palit



Electronics and Communication Engineering Department of Guru Nanak Institute of Technology, Kolkata organized a technical event “Electrofusion” on 23rd September, 2019 (Monday) from 10.00 am to 5.00 pm in collaboration with #IEEE EDS Kolkata Section.

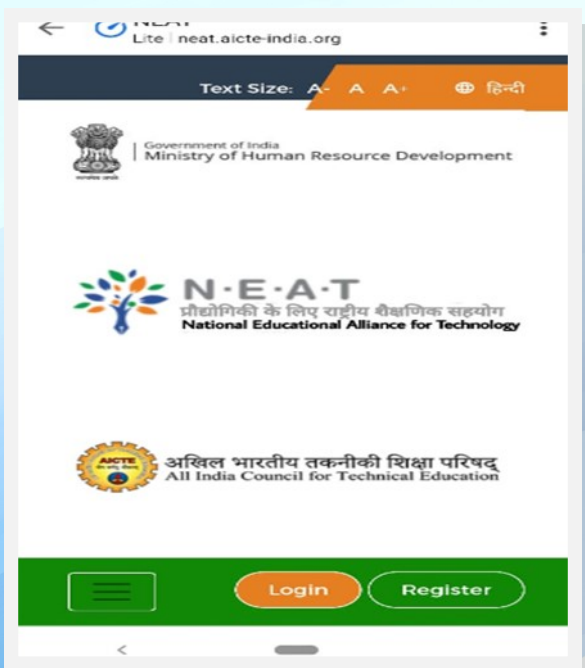


You are requested to encourage your students to send their Innovative Idea & Research work as a model as early as possible. Diploma, UG and PG students of Engineering background students participated.

Best three models win Cash prize and Certificates.

Faculty's achievements

- * Dr. Sunipa Roy Received IEEE Senior Member (SMIEEE) Memento from IEEE USA in the month of October 2019.
- * Mrs. Avali Banerjee completed defense viva voce of PhD program on 12th June 2020, from MAKAUT.
- * Mrs. Anurima Majumder completed pre-submission viva of PhD program on 28th July 2020.
- * Mrs. Antara Ghosal completed pre-submission viva of PhD program on 28th July 2020.



- * Mrs. Palasri Dharis one and only winner of NEAT LOGO Contest of MHRD Govt. of India, MHRD, AICTE. Awarded on 12.01.20.
- * Dr. Sunipa Roy received the prestigious Kriti Award 2019 in the category of Principal choice on 20.09.19. She also achieved the Kriti Award 2019 for Research Publication.
- * Dr. Sunipa Roy received NPTEL ELITE category in ELECTRON DEVICE FABRICATION SESSION, during JUL-DEC 2019.
- * Mrs. Soma Boral received NPTEL ELITE category in 2 subjects

- i) Introduction to Research
- ii) Principles of Modern CDMA/MIMO/OFDM Wireless Communications



* Mrs. Swagata Bhattacharya received NPTEL ELITE category in Hardware modelling using Verilog, during the SESSION JUL-DEC 2019.

* Mrs. Soma Boral scored 81% in Fundamentals of MIMO wireless Communication, during JAN-JUNE 2020, NPTEL Exam.

* Dr. Surajit Basak scored 81% in Fundamentals of MIMO wireless Communication, during JAN-JUNE 2020, NPTEL Exam.

* Mrs. Soma Boral scored 81% in Evaluation of Air interface towards 5G, during JAN-JUNE 2020, NPTEL Exam.

* Dr. Suparna Biswas and Palasri Dhar received best paper award in ICORE 2020 on 07.02.20.

* Mrs. Soma Boral received best Paper award in ICORE 2020 on 08.02.20.



* Dr. Sunipa Roy received the JIS award for Research excellence on 30.09.19, for the following categories:

- * Govt funded R& D Project
- * Research guidance



- * Book published
- * Article published
- * Patent published
- * Research Excellence
- * Dr. Suparna Biswas received the prestigious Kriti Award 2019 for achieving the PhD degree.
- * Dr. Suparna Biswas received the JIS award for Research excellence

(30.09.2019) for the following categories

- * Article Published
- * Student publication

- * Dr. Surajit Basak received the Kriti Award 2019 for achieving the PhD degree.

- * Dr. Surajit Basak also received the JIS award for Research excellence (30.09.2019) for article publication and for student publication.

- * Mr. Koushik Pal received the KRITI Award 2019 for the following three categories
 - Principal's Choice
 - Mentorship
 - Patent published

- * Mr. Koushik Pal received the JIS award for Research excellence on 30.09.2019, for article publication, book chapter publication and for student publication.



- * Dr. Avail Banerjee received the JIS award for Research excellence on 30.09.2019, for article publication and for student publication.
- * The following faculties also received Kriti Award 2019- for mentorship



PalasriDhar & Soma Manna-
4thyr ECE1

Antara Ghosal & Sayan
Roychaudhuri-4thyr ECE2

Dr. Suparna Biswas and Swagata Bhattacharya-3rdyr ECE1

Dr. Surajit Basak and Dr. Kaushik Roy - 3rdyr ECE2

Anurima Majumdar & Koushik Pal-2ndyr ECE1

Dr. Avail Banerjee and Dr. Kaushik Roy-2ndyr ECE2

- * The following faculties also received JIS award for Research excellence (30.09.2019) for the article publication and student publication
 - Mrs. Anurima Majumdar
 - Mrs. Antara Ghosal
 - Mrs. Palasri Dhar
 - Mrs. Soma Boral
- * Dr. Sunipa Roy as a convenor organized the international conference FEMAS 2019 during 26 - 27 September, 2019.
- * Dr. Suparna Biswas selected as reviewer of IE Journal, ICCE 2020 IEEE conference.
- * Dr. Suparna Biswas, Dr. Surajit Basak and Dr. Kaushik Roy selected as reviewer and Session chair for the international conference FEMAS 2019 during 26 - 27 September, 2019.
- * Dr. Kaushik Roy promoted to Member of IEEE from Associate Member in 2019
- * Mr. Sayan Roychaudhuri, Mr. Koushik Pal, Mrs. Soma Boral and Dr. Arun Kumar Mondal's presented paper awarded 2nd prize in FOSET 2020.
- * Dr. Sunipa Roy has been awarded 'Life Member' by "International Institute

of Organized Research” w.e.f. June 2020. I2OR is working on United Nation's Sustainable Development Goals (SDGs) - The Global Goals 2030 specifically for Goal No. 4 i.e Quality Education.

- * Dr Sunipa Roy received the “Appreciation Certificates” from JISCE Integrated Hackathon 2K20 , JISCE, Kalyani in June 2020 for her tireless efforts of judging more than 100 teams continuously for 10 days and also being their mentor and guide for the entire occasion.



- * Dr. Sunipa Roy has been selected as “Advisory Board Member” by ‘International Institute of Engineers & Researchers on 20th July 2020.
- * Dr. Sunipa Roy elevated to Senior Member IEEE in August 2019.



- * Kriti Award 2019- Best mentor award
- * Palasri Dhar & Soma Manna- 3rd yr ECE
- * Antara Ghosal & Sayan Roychaudhuri-3rd yr ECE
- * Anurima Majumdar & Koushik Pal -4th yr ECE
- * Aditi Sengupta & Avali Banerjee-

4th yr ECE

- * Mr. Sayan Roy Chaudhuri was Faculty Coordinator : CII Organized Conference titled INNOVATION 2019

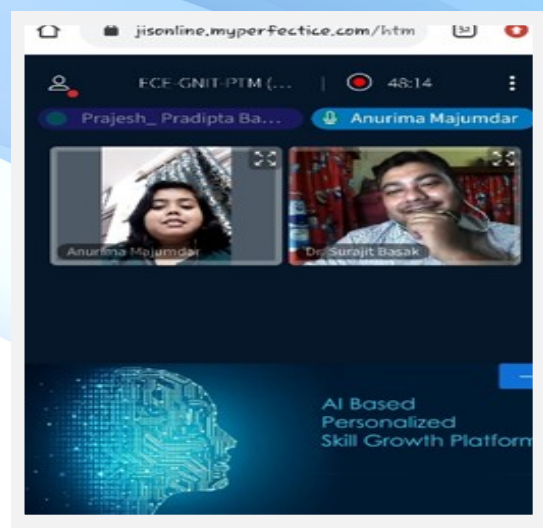
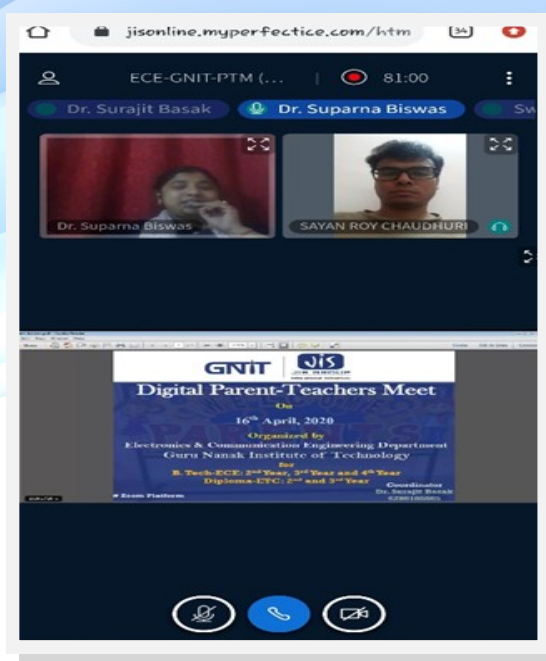
- * Dr. Sunipa Roy worked as JIS group academic auditor (NBA) from GuruNanak Institute of Technology and participated NBA Summit in New Delhi in the year 2019.
- * Dr. Sunipa Roy received the prestigious Kriti Award 2019 (Principal choice).
- * Dr. Sunipa Roy was Invited Speaker and Session chair, IEEE sponsored International conference at KGEC, Kalyani held on 30.06.2019
- * Dr. Sunipa Roy was Selected as reviewer in "IEEE transaction on Nanotechnology" on 25.02.2020 .

Achievements (Staff)

- * Mr. RamkrishnaMondal and Mr.Avijit Deb received KRITI award 2019- for Completion of 10 years of service in GNIT
- * Mrs.SulataPandit and Mrs.Dyuti Nandi Published paper in ICORE 2020 (February 7th -8th)
- * Mr.RamkrishnaMondal Published paper in ICORE 2020(February 7th -8th) JIS award for Research excellence on 30.09.19

Departmental events Organized

The department organized a parent teacher meet on 16th April 2020. The whole session was conducted on digital platform. Almost 100 parents from different batch participated in the meeting where they shared their experience during this challenging situation and also gave their valuable feedback on digital learning platform.



* Online Alumni meet

Department of Electronics and Communication Engineering of Guru Nanak Institute of Technology has organized "ONLINE ALUMNI MEET 2020" on 17th April 2020 to facilitate and coordinate alumni activities at GNIT. The main objective of the meet was to know the situation of COVID-19 around them and their experiences.

Alumni from various batches and from all over the countries were present in this online alumni meet. They shared their views, ideas and information with all the faculty members. They appreciated the initiative taken by the JIS Management Team, Prof. (Dr.) Santanu Kumar Sen, Principal and HOD Dr Sunipa

Roy, Faculty Members & Technical Assistants of ECE Department for facilitating this networking during the Lockdown Period.

The event was successful because of the overwhelming participation from all.

The glimpse of alumni meet is attached herewith.



* Alumni Association of Guru Nanak Institute of Technology in collaboration with Research Matter powered by MHRD – Institution Innovation Council @ GNIT has organized an Online Panel Discussion entitled “Quest for Ph.D.” on 13 July, 2020.



* ECE Department of Guru Nanak Institute of Technology has organised a webinar on #Networking with CISCO tool# on 17th April, 2020 and it was coordinated by Dr. Sunipa Roy , HOD, ECE department , Dr. Kaushik Roy Assistant Prof. ECE Department .The speaker for the session was # Mr.Safikul Mallick, Senior Project Manager, Ardent Computech Pvt. Ltd.,India .Mr.Safikul Mallick illustrated the application of Computer network in a very edifying and conjoint way. The session was started with basics of networking and gradually moved towards CISCO tool use in Computer networking. The relevance and applications of such tool in Electronics and Communication Engineering field is discussed by Mr. Mallick.In the student interaction session, he addressed almost all the doubts to the participants. Almost 70 students participated in the program.



* The department organised a One Day webinar on Embedded System & Robotics in collaboration with #Unanimity Academy. Mr. Tamojit Saha from Unanimity was the invited speaker. The basics of embedded system and their application in elementary robotics were discussed. Dr. Sunipa Roy , HOD , ECE and Ms. Swagata Bhattacharya , Asst. Prof, ECE coordinated the whole event. Almost 100 students participated in the program.



* An interdepartmental seminar on Machine Learning Application Based on PYNQ was organised by ECE & CSE DEPARTMENT IN COLLABORATION with CoreEL Technology Pvt. Ltd on 23.4.2020. The whole event was coordinated by Ms. Swagata Bhattacharya ,

- * An one day webinar on #Artificial Intelligence has been organised by the department on 18-04-2020 in collaboration with #Webskitters technology Solutions Pvt. Ltd. Dr. Sunipa Roy, HOD, ECE and Ms. Antara Ghosal, Asst. Prof, ECE coordinated the whole event. The session was held with ECE 3rd year students. Mr. Indranil Das, Sr. Trainer & Developer, Webskitters Technology Solutions Pvt Ltd was the speaker of the day. The session started with basic knowledge about Python and covered the applications and relevance of such programming languages in Artificial Intelligence. 94 students participated in the program. The whole session was conducted online.



- * ECE DEPARTMENT IN COLLABORATION with UNANIMITY ACADEMY organised one day seminar on INTRODUCTION TO ROBOTICS on 24.4.2020.

- * ECE DEPARTMENT organised a one day Social Awareness Drive on Stress Management & Self Care during

COVID-19 Outbreak on 04.05.2020. The whole event was coordinated by Mr. Koushik Pal & Dr. Kaushik Roy. The students learnt some effective guidelines for fitness and safety of every individual during this pandemic

- * The department organised an online counselling session for students who are interested in higher studies on 05.05.2020. The whole program was coordinated by Dr. Suparna Biswas and Dr. Surajit Basak.

- * The department organised an International Webinar on Discussion for HOIKI Instruments on 22.06.2020. the program was coordinated by Ms.Palasri Dhar
- * The department organised an Industry Mentor Meet with industry mentor Mr.Kaushik Shett,Test Engineer ,Infosys on 23.06.2020. the program was coordinated by Ms. Anurima Majumdar and Ms.Palasri Dhar
- * ECE DEPARTMENTorganised a one day online workshop on Application Digital Pedagogy Workshop on 30.05.20020. The whole event was coordinated by Dr. Suparna Biswas & Dr. Avali Banerjee.
- * Dr. Avali Banerjee represented the department on national Television show “Ki hote chai” on 10.06.2020.
- * Electronics & Communication Engineering in collaboration with the Institution of Engineers (India) and Admission Cell @ GNIT has organized Sambhav 2020 for school students of standard 10 to 12 on 24th July, 2020. The whole event was coordinated by Dr. Avali Banerjee, Ms. Palasri Dhar, Ms. Antara Ghoshal.



- * The department organised a student seminar for final year students where all the final year students presented their innovative ideas and project works. The event was organised on 15.05.2020, 18.05.2020 and 27.05.2020 . The whole program was coordinated by Dr. Surajit Basak.

* Faculty Development Program On Electronic Devices, Image Processing and Machine Learning ,Organized By Department of Electronics and Communication Engineering

About the College

Guru Nanak Institute of Technology was instituted with a vision to empower the aspiring professionals with the technological knowledge and professional expertise under the aegis of JIS Group Educational Initiatives in the year 2003. This technical campus offers undergraduate and post graduate courses under West Bengal University of Technology (WBUT now MAKAUT) and some courses are NBA Accredited. The Institute is approved by AICTE and accredited by UGC, NAAC and located in one of the prime locations in North Kolkata near Sodepur. The Institute offers latest technology oriented courses as per industry trends and nurtures creativity, innovations and research initiatives both at faculty and student levels to enrich and enhance the teaching learning process.

Organizing Committee

Chief Patron:
Sardar Taranjit Singh, Managing Director, JIS Group

Patron:
Mr. Simarpreet Singh, Director, JIS Group

FDP Chair:
Prof. (Dr.) Santanu Kr. Sen
Principal, GNIT

Convener:
Dr. Sunipa Roy (HOD)
Dept. of Electronics and Communication Engineering, GNIT
E-mail: head_ece_gnit@jisgroup.org

Coordinators:

1. Dr. Surajit Basak, Dept. of Electronics and Communication Engineering, GNIT
Email: surajit.basak@gnit.ac.in
2. Dr. Kaushik Roy, Dept. of Electronics and Communication Engineering, GNIT
Email: kaushik_roy@gnit.ac.in
2. Dr. Soumik Podder, Dept. of Electronics and Communication Engineering, GNIT
Email: soumik.podder@gnit.ac.in

Address for Communication:

1. Dr. Surajit Basak (M: 6290186865)
2. Dr. Kaushik Roy (M: 8334043348)
3. Dr. Soumik Podder (M: 8240028876)

Faculty Development Program
On
Electronic Devices, Image Processing and Machine Learning

12th –16th August, 2019

Organized by
Department of Electronics and Communication Engineering
Guru Nanak Institute of Technology,
In association with
Institution of Engineers (India)

Click the link for Registration:
<https://forms.gle/PomkZZgGkmmLYJss5>

Program Highlights

The importance of electron device, image processing and newly emerged Machine learning are booming over the years due to their revolutionary impact over traditional technology. Nanotechnology rejuvenates traditional transistor technology with exciting features and characteristics. Nanomaterials based SMART sensor technology becomes a growing field of research. Nanostructure incorporates unique features in sensing mechanism and helps to detect versatile objects ranging from gas sensing to biomolecule sensing. Image processing has vast applications in feature extraction, pattern recognition, biomedical field viz. retinotherapy, etc. Recently 360° video/image processing becomes growing field of research. Water marking Deep Neural Network (DNN) using image processing is popularly growing field of research. Conjugation of image processing and machine learning ensemble even measures size and mass of rice kernel. Machine learning starting from its algorithm based research now is extending to agriculture, food processing, system metabolic engineering, biomedical applications and even newly emerged based battery technology.

The FDP aims to introduce advanced academic research on electronic devices, image processing and machine learning and to provide the knowledge on state of the art technology on low dimensional nanoelectronic devices, image processing along with machine learning. The 5 days FDP will deliver the knowledge from fundamentals to cutting edge research on low dimensional nanoelectronic devices, image processing and machine learning and their exciting applications. It is also good platform to interact with highly experienced academics and provide an opportunity to share their knowledge with participants.

Topics to be covered

- Low Dimensional Nanoelectronic Devices
- Nanostructured materials in biomedical applications
- Development of Graphene Field Effect Transistor for Sensing Application
- Image Processing- fundamentals to cutting edge research
- Machine Learning- A versatile platform.

Click the link for Registration:
<https://forms.gle/PomkZZgGkmmLYJss5>

Who can apply
Faculty members/ Academicians. Research/ PG Scholars. Industrial Professionals/ Delegates.

Registration Form

5 days Online Faculty Development Program
On
Electron Devices, Image Processing and Machine Learning
In
Association
with
Institution of Engineers

REGISTRATION FORM

Name of the Participant:.....
Designation:.....
Department:.....
Name of the Institution:.....
Mobile No.:.....
Whatsapp No.:.....
E-mail id:.....
Area of Research Interest:.....

Registration Fees (in rupees):.....
Mode of Payment:.....

Choose : i. Internet Banking
ii. NEFT
iii. Mobile Banking

Transaction ID:.....
Date of Transaction: (mm/dd/yyyy)
Upload money receipt: (.jpg/pdf only)

Registration Fees:
Rs. 500/- (Rupees Five Hundred only)
The registration fee shall be paid through electronic fund transfer to the A/C no.: 33454713045 IFSC Code: SBIN0016642 Branch: GNCC Bank: State Bank of India; Participants are requested to inform the Mode of Payment of the transaction at time of registration

Resource Persons

Dr. Chandan Kumar Ghosh,
Assistant Professor
School of Materials Science and Nanotechnology,
Jadavpur University


Dr. Rajat Subhra Chakraborty
Associate Professor
Department of Computer Science and Engineering
IIT Kharagpur

Dr. Joydeep Sengupta
Assistant Professor
Dept. of ECE,
Visvesvaraya National Institute of Technology,
Nagpur

Dr. Arnab Hazra
Assistant Professor
Dept. of Electrical and Electronics Engineering,
Birla Institute of Technology & Science (BITS)-Pilani

Dr. Angsuman Sarkar,
Professor of Electronics and Communication Engineering
Kalyani Government Engineering College

- * Faculty Development Program On “IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA”, Organized By Department of Electronics and Communication Engineering.

<p>Five Days Online National Faculty Development Program On</p> <p>“IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA”</p> <p>ON 22nd June, 2020 To 26th June, 2020</p> <p>Organized by Department of Electronics and Communication Engineering Guru Nanak Institute of Technology <i>In Association with</i> IEEE Solid-State Circuits Society, Kolkata Chapter</p> <p>GNIT IEEE SSCS KOLKATA CHAPTER</p>	 <p>Convener Dr. Sunipa Roy, HOD, ECE Dept., GNIT Dr. Suparna Biswas, Assistant Professor, ECE Dept., GNIT</p> <p>Coordinator Mrs. Palasi Dhar Assistant Professor, ECE Dept., GNIT</p> <p>Contact Info Dr. Sunipa Roy – 9830751850 Dr. Suparna Biswas – 8017432780</p>	<p>Organizing Committee</p> <p>Technical committee Dr. Sunipa Roy, Head, Dept. of ECE Dr. Suparna Biswas, Assistant Professor, Dept. of ECE Mrs. Palasi Dhar, Assistant Professor, Dept. of ECE</p> <p>Registration committee (Attendance) Mrs. Antara Ghosal, Assistant Professor, Dept. of ECE Mr. Koushik Pal, Assistant Professor, Dept. of ECE Mr. Sayan Roy Chaudhuri, Assistant Professor, Dept. of ECE Mrs. Sulata Pandit, Technical Assistant, Dept. of ECE Mrs. Dyuti Nandi, Technical Assistant, Dept. of ECE</p> <p>Feedback Committee Mr. Ramkrishna Mondal, Technical Assistant, Dept. of ECE Mr. Anamlesh Chandra Ghatak, Technical Assistant, Dept. of ECE Mr. Avijit Deb, Technical Assistant, Dept. of ECE</p> <p>Certificate committee Dr. Soumik Podder, Assistant Professor, Dept. of ECE Dr. Surajit Basak, Assistant Professor, Dept. of ECE Dr. Kaushik Roy, Assistant Professor, Dept. of ECE Mrs. Soma Manna, Assistant Professor, Dept. of ECE</p> <p>Media committee Dr. Avali Banerjee, Assistant Professor, Dept. of ECE Mrs. Anurima Majumder, Assistant Professor, Dept. of ECE Mrs. Swagata Bhattacharya, Assistant Professor, Dept. of ECE</p> <p>Advisory committee Prof. Dr. Santanu Kumar Sen, Principal, GNIT Prof. Dr. Arun Kumar Mondal, COE, GNIT Prof. Sekhar Ranjan Bhadra Chaudhuri, Dept. of ECE Dr. Kakali Bandyopadhyay, HOD, FT Dept., GNIT</p> <p>Finance Committee Mr. SoumikJash, Accounts, GNIT Mr. Subhankar Bose, Accounts, GNIT Mr. Shantanu Dasgupta, Accounts, GNIT Mrs. Sumana Bhattacharjee, Staff, GNIT</p>
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<p>About the Institution</p> <p>Guru Nanak Institute of Technology is an acclaimed educational institute that has risen to fame for its strong foundation in teaching and R&D in multifaceted areas. It is a private engineering institution established by JIS Group in 2003, located in Panhati, Sodpur, a suburb of Kolkata in the state of West Bengal, India. The Institute is approved by AICTE, accredited by UGC, NAAC and some courses are NBA Accredited. This technical campus offers undergraduate and post graduate courses in engineering and computer applications disciplines. This temple of learning offers latest technology oriented courses as per industry trends and nurtures creativity, innovations and research initiatives both at faculty and student levels to enrich and enhance the teaching learning process.</p> <p>About the Department</p> <p>The Electronics and Communication Engineering Department is one of the oldest departments in Guru Nanak Institute of Technology. We offer one of the best learning environments and state-of-the-art facilities. The department offers B.Tech in ECE, M.Tech in Mobile communication and Network Technology and Diploma in Electronics and Telecommunication Engineering. The department has good infrastructure and well equipped laboratories covering all subjects related to Electronics and Communication Engineering to impart technical skill to the students to make them proficient engineers.</p> <p>Our department is enriched with highly experienced Ph.D. faculty members who are very much dynamic and enthusiastic. The department always tries to engage students in different extra-curricular & co-curricular activities to develop personal & professional ethics and management. Furthermore students of the department published their research works in different reputed National and International journals, and conferences.</p>	<p>ABOUT THE FDP</p> <p>The primary objective of this Faculty Development Program (FDP) on Machine Intelligence towards Digital India is to provide insights on the latest developments in IoT (Internet of Things) and Machine Learning (ML) technology in building a new Digital India. The objective is to address modern trends in the field of Machine Learning with real time problem solving. Machine Learning (ML) and IoT play a prominent role in the modern engineering and information processing systems. It is a rapidly growing field.</p> <p>The Machine Learning is an essential part of pattern recognition, object detection and classification, clustering, data mining and speech recognition etc. In addition, IoT has important significance over machine learning in application of smart city. The aim of this FDP is to provide an exposure to both basics and recent advances in Machine Learning and IoT to the teaching and research community associated with the departments of Electronics, Electrical, Computer Science, IT, MCA, Bio Medical etc.</p> <p>Topics to be covered</p> <ul style="list-style-type: none"> • Green IOT and Green Environment • Clock Generation in High Speed SERDES Systems for IOT Applications. • Circuits for IoT • Metaheuristic Optimization: Principles, Taxonomy and Applications • Machine Learning based nonlinear regression models and pattern based MPS simulation for uncertainty in ore grade estimation 	<p>SPEAKERS / RESOURCE PERSONS</p> <ul style="list-style-type: none"> • Prof. Dr. Santanu Kumar Sen, Principal, GNIT • Dr. Agam Das Goswami, Assistant Professor Senior School Of Electronics Engineering, VIT A.P. • Dr. NandaDulal Jana, Assistant Professor of CSE, NIT DURGAPUR • Mr. Sumilak Chaudhury, Design Engineer II, Cadence Design Systems India Pvt Ltd • Mr. Sagar Mukherjee, Technical Lead, Sankalp Semiconductors (An HCL Technologies Company) <p>Eligibility</p> <p>Faculty members / Research Scholars/ Polytechnic College members will be given preference. Interested Engineers from Industries may also apply.</p> <p>The strength permitted is 50 participants. (First come first serve basis)</p> <ul style="list-style-type: none"> *Free Registration. **Last date of registration: 20th June midnight. **E-certificates will be provided to the participants. **80% attendance is mandatory for getting the certificate
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- * The department organised a quiz contest on 06.05.2020. The whole program was coordinated by Ms. Palasri Dhar and Ms. Soma Boral.
- * To raise the awareness, the students of Electronics and Communication Engineering Department organized an online poster making competition on digital platform. The theme of the event is "Transmissible Disease". Many from schools and other colleges participated in the event. The Submission for the entries started from 22nd April and the Deadline was 29th April, 12:00 PM.

WEBINAR/SEMINAR/CONFERENCE/WORKSHOP PARTICIPATED

Webinar/Seminar / Conference/Cultural event/FDP etc. participation					
Name of the Faculty	Event	Topic	Date	Venue	Organised by
Dr. Kaushik Roy	Attended webinar on COVID-19	Awareness on COVID 19	20.03.2020	GNIT	GNIT
Dr. Kaushik Roy	Attended Digital night	cultural event	11.04.2020	Myperfectic e platform	GNIT
Dr. Kaushik Roy	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GN IT
Dr. Kaushik Roy	Attended webinar on Python	Python Programming	01.04.2020	Myperfectic e platform	ECE Dept.,GN IT
Mrs. Swagata Bhattacharya	attended Wbeniar on VLSI Design using Vivado	VLSI Design using Vivado	06.04.2020	Myperfectic e platform	ECE Dept.,GN IT
Mrs. Swagata Bhattacharya	attended Webenar on quatum Mechanics	Quantum mechanics	09.04.2020	zoom digital platform	ECE Dept.,GN IT
Mrs. Swagata Bhattacharya	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GN IT
Dr. Suparna Biswas	Attended Digital night	cultural event	04.04.20	GNIT	GNIT

Dr. Suparna Biswas	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT
Dr. Suparna Biswas	Attended webinar on Python	Python Programming	01.04.20	Myperfectice platform	ECE Dept. GNIT
Sayan Roy Chaudhuri	Attended Digital Night	cultural event	04.04.20	Myperfectice platform	GNIT
Sayan Roy Chaudhuri	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT
Sayan Roy Chaudhuri	Attended Webinar on Python	Python Programming	01.04.20	Myperfectice platform	ECE Dept. GNIT
Palasri Dhar	Attended Webinar	VLSI Design using Vivado	6.4.2020	zoom digital platform	CoreEL technology
Palasri Dhar	Attended the international seminar	Quantum mechanics	09.04.2020	zoom digital platform	ECE Dept. GNIT
Palasri Dhar	Attended the webinar	Python Programming	01.04.2020	GoToMeeting Digital platform	ECE Dept. GNIT in collaboration with Ardent tech Labs
Palasri Dhar	Attended the Webinar	Machine Learning using PYTHON	28.03.2020	zoom digital platform	organized by ECE department
Palasri Dhar	Attended Digital night	cultural event	04.04.2020 and 11.04.2020	Myperfectice platform	GNIT
Palasri Dhar	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT
Palasri Dhar	Attended the International Webinar	Role of Educators during COVID-19	13.04.2020	zoom digital platform	organized by JiIS college of engineering
Palasri Dhar	Attended the webinar	Introduction to C Programming	14.04.2020	GotoWebinar Digital Platform	organized by ECE department

Department of Electronics & Communication Engineering

Dr. SurajitBask	Attended Digital night	cultural event	04.04.2020 and 11.04.2020	Myperfectic e platform	GNIT
Dr. SurajitBask	Attended webinar on Python	Python Programming	01.04.2020	Go ToMeeting	ECE Dept. GNIT
Dr. SurajitBask	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT
Dr. SurajitBask	Attended international webinar on Quantum mechanics	Quantun Mechanics in Electronics	09.04.2020	Zoom platform	ECE Dept. GNIT
Koushik Pal	Attended Digital night	cultural event	04.04.2020 and 11.04.2020	Myperfectic e platform	GNIT
Koushik Pal	Attended webinar on Python	Python Programming	01.04.2020	Zoom platform	ECE Dept. GNIT
Koushik Pal	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT
Koushik Pal	Attended international webinar on Quantum mechanics	Quantun Mechanics in Electronics	09.04.2020	Zoom platform	ECE Dept. GNIT
Dr Sunipa Roy	1.Attended Webniar on VLSI Design using Vivado	VLSI Design using Vivado	6.4.2020	Zoom platform	ECE Dept. GNIT
Dr Sunipa Roy	2.Attended Webniar on ERP in modern IT Induatry at JISCE	ERP in modern IT Induatry	7.4.2020	Zoom platform	ECE Dept. GNIT
Dr Sunipa Roy	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT

Dr Sunipa Roy	Judge at COVID19 Innovation challenge at JISCE	Judge	10.04.2020-11.04.2020	Zoom platform	ECE Dept. GNIT
Dr Sunipa Roy	3.Attended InternatinalWeb niar	Role of the Educators during COVID19 at JISCE	13.4.2020	Zoom platform	ECE Dept. GNIT
Dr Sunipa Roy	4. attended InternatinalWeb niar ..	"Graphene Supply chain technical business challenges during COVID19" arranged by Graphene council, Speaker James Baker, Univ of Manchester	14.4.2020	Zoom platform	ECE Dept. GNIT
Dr Sunipa Roy	5. Attended Internatinal Webniar	Graphene enhanced thermal management solution" by Terrance Barkan	16.4.2020	Zoom platform	ECE Dept. GNIT
Dr Sunipa Roy	6.Attended Leadership Talk series by Different Experts from Institution Innovation Council, MHRD, GOI	IIC Cell GNIT	07.4.2020, 09.04.2020,11.04.2020,13.04.2020,15.04.2020	Twitter MHRD	ECE Dept. GNIT

Dr Sunipa Roy	7.attended Internatinal Webinar	Leadership in times of uncertainty and anxiety by Prof. Christopher Abraham	16.04.2020	Zoom platform	ECE Dept. GNIT
Antara Ghosal	Attended the webinar titled " Python Programming "	Python Programming	01.04.2020	GoToMeeting Digital platform	ECE Dept. GNIT in collaboration with Ardent tech Labs
Antara Ghosal	Attended the Webinar on Machine Learning using PYTHON	Machine Learning	28.03.2020	zoom digital platform	organized by ECE department
Antara Ghosal	Attended Digital night	cultural event	04.04.2020 and 11.04.2020	Myperfectic e platform	GNIT
Antara Ghosal	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT
Antara Ghosal	attended Webinar on VLSI Design using Vivado		6.4.2020	zoom digital platform	CoreEL technology
Antara Ghosal	Attended the international webinar on Quantum mechanics	Quantun Mechanics in Electronics	09.04.2020	zoom digital platform	ECE Dept. GNIT
Soma Boral	Attended the webinar titled " Python Programming "	Python Programming	01.04.2020	GoToMeeting Digital platform	ECE Dept. GNIT in collaboration with Ardent tech Labs
Soma Boral	Attended the Webinar on Machine Learning using PYTHON	Machine Learning	28.03.2020	zoom digital platform	organized by ECE department

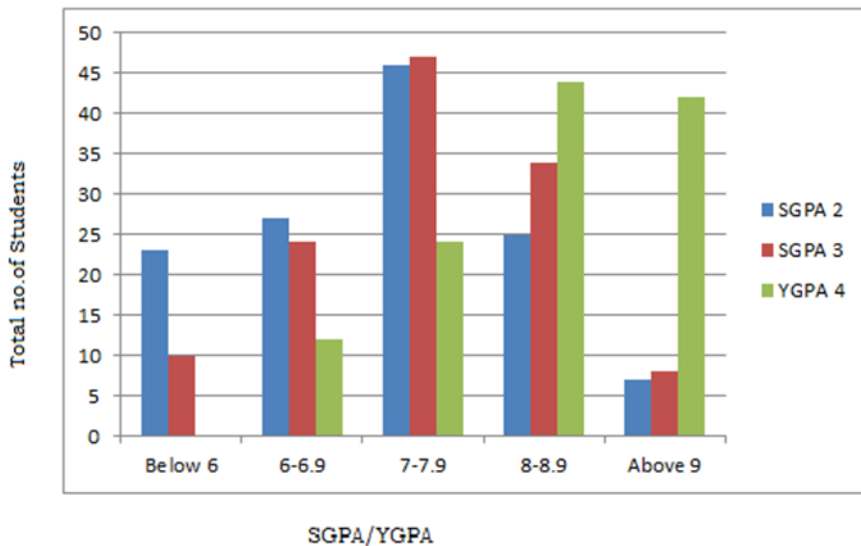
Soma Boral	Attended the webinar	Introduction to C Programming	14.04.2020	GotoWebinar Digital Platform	organized by ECE department
Soma Boral	Attended Digital night	cultural event	04.04.2020 and 11.04.2020	Myperfectice platform	GNIT
Soma Boral	Attended FDP on Pedagogical Initiatives on Digital Platform	Digital Learning	15-04-2020	Zoom	ECE Dept.,GNIT
Soma Boral	Attended the international webinar	Quantun Mechanics in Electronics	09.04.2020	zoom digital platform	ECE Dept. GNIT
Avali Banerjee	Attended the webinar	Python Programming	01.04.2020	GoToMeeting Digital platform	ECE Dept. GNIT in collaboration with Ardent tech Labs
Avali Banerjee	Attended the Webinar	Machine Learning using PYTHON	28.03.2020	zoom digital platform	organized by ECE department
Avali Banerjee	Attended the international webinar	Quantum mechanics	09.04.2020	zoom digital platform	ECE Dept. GNIT
Avali Banerjee	Attended the webinar	Introduction to C Programming	14.04.2020	GotoWebinar Digital Platform	organized by ECE department
Anurima Majumdar	One day webinar on Python Programming	Python Programming	01.04.2020	Myperfectice platform	ECE Dept. GNIT in collaboration with Ardent tech Labs
Anurima Majumdar	One day webinar on machine learning with Python Programming	Machine Learning	28.03.2020	Myperfectice platform	ECE Dept. GNIT in collaboration with Unanimity Acedemy
Anurima Majumdar	Attended webinar on COVID-19	Fight against COVID 19	20.03.2020	YouTube live	GNIT

Department of Electronics & Communication Engineering

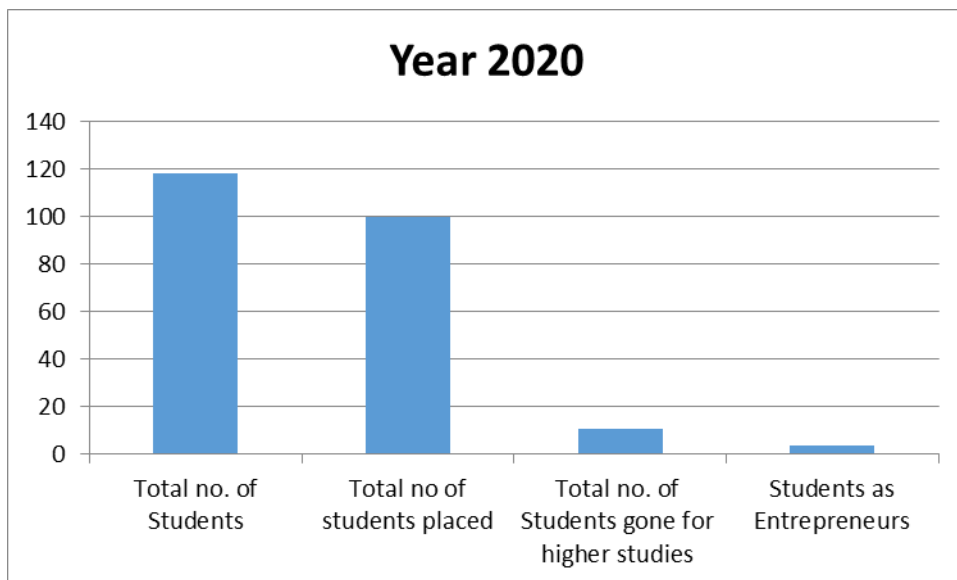
Ramkrishna Mondal	Attended Digital Cultural Night		04.04.2020	My perfectice	GNIT
One day International seminar on Quantum Mechanincs in Electronics	Quantum Mechanincs	09.04.2020	zoom digital platform	ECE Dept. GNIT	
performed at GNIT Digital Cultural night	Singing	04-04-2020	Myperfectice platform	GNIT	
Attended the webinar	Introduction to C Programming	14.04.2020	GotoWebinar Digital Platform	organized by ECE department	
Ramkrishna Mondal	Attended Digital Cultural Night		11.04.2020	My perfectice	GNIT
SulataPandit (JTA)	Attended the Webinar on Machine Learning using PYTHON	Machine Learning using PYTHON	28.03.2020	zoom digital platform	organized by ECE department
	Attended the webinar	Introducti on to C Programm ing	14.04.2020	GotoWebina r Digital Platform	organized by ECE department
	Attended the webinar	Role of the Educators during COVID19 at JISCE	13.04.2020	Zoom platform	JISCE
	Attended Digital night		04.04.2020	Myperfectic e platform	GNIT
	Attended Digital night		11.04.2020	Myperfectic e platform	GNIT

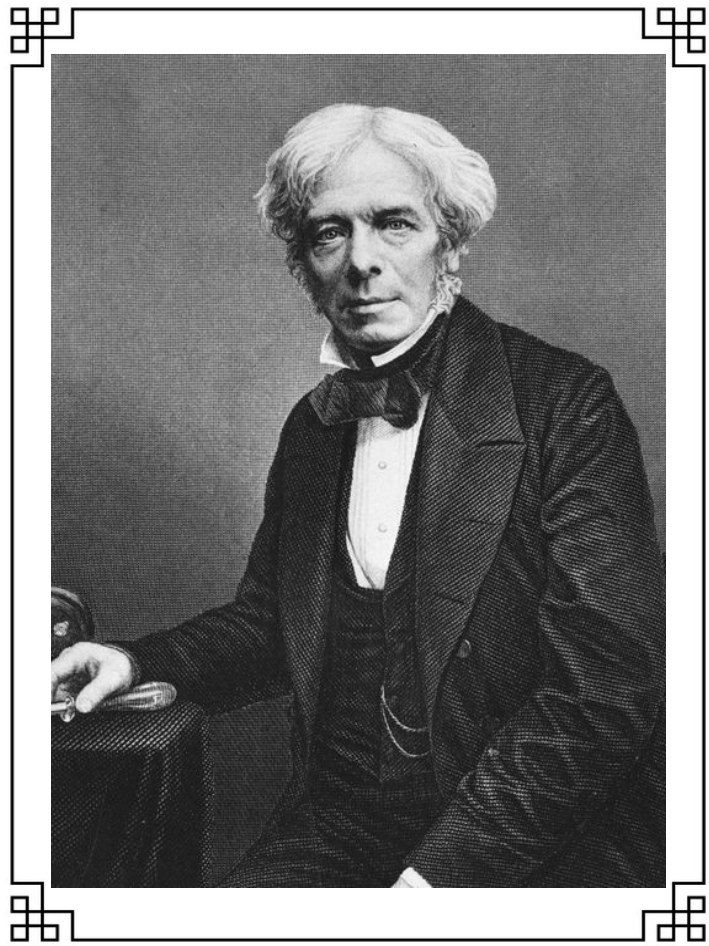
Avijit Deb	Attended Digital night		04.04.2020 & 11.04.2020	Myperfectic e platform	GNIT
Dyuti Nandi	Attended the international webinar	Quantum mechanics	09.04.2020	zoom digital platform	ECE Dept. GNIT
Dyuti Nandi	Attended the Webinar	Machine Learning using PYTHON	28.03.2020	zoom digital platform	ECE Dept. GNIT
Dyuti Nandi	Perform at Digital cultural night	Song	04.04.2020	Myperfectic e platform	GNIT
Dyuti Nandi	Attended Digital night		11.04.2020	Myperfectic e platform	GNIT
Dyuti Nandi	Attended the webinar	Introducti on to C Programming	14.04.2020	GotoWebina r Digital Platform	Organized by Tech tree technology
Dyuti Nandi	Attended the webinar	Python Programm ing	01.04.2020	GoToMeetin g Digital platform	ECE Dept. GNIT in collaboration with Ardent tech Labs
Amalesh Chandra Ghatak	Attended international webinar on Quantum mechanics	Quantum mechanics	09.04.2020	Zoom platform	ECE Dept. GNIT
Amalesh Chandra Ghatak	Attended Digital Cultural night		04.04.2020 and 11.04.2020	Myperfectic e platform	GNIT
SulataPand it(JTA)	Attended the webinar	Python Programm ing	01.04.2020	GoToMeetin g Digital platform	ECE Dept. GNIT in collaboration with Ardent tech Labs

Result Analysis



Placement and higher studies





**Nothing is too wonderful to be true if
it be consistent with the laws of
nature.**

- Michael Faraday -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Electrical Engineering

ANNUAL REPORT

2019-20

Name of the Department: Electrical Engineering

Vision of the department

Our Departmental Vision is to impart world class education in the field of Electrical Engineering and to produce new generation technologists & entrepreneurs with new ideas and innovation to meet industry expectations and requirements of advanced research.

Mission of the department

- * Impart quality education and create a student centric learning environment.
- * Develop the students' ability to solve engineering problems and encourage Critical & Creative thinking.
- * Improve communication and management skills of the students
- * Imbibe the spirit of moral values and ethics to serve the society.
- * Inculcate an urge for continuous and life-long learning towards growth and self - development

PEO

- * To impart strong foundation in Science, Mathematics and Electrical Engineering for the students to become Successful professionals and /or to pursue higher studies and research
- * To impart profound scientific & engineering knowledge to comprehend, analyze, design and create new thoughts and products for solving real life Engineering problems.
- * To train students in developing ethical attitudes , strong communication skills and capacity to relate engineering issues to social and environmental context
- * To help students to be a lifelong learners required for successful professional careers

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- * **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO1: Design, implement, test, operate and do maintenance of the electrical systems by applying the knowledge of electrical engineering.

PSO2: Function effectively in allied fields such as software, electronics, communication and instrumentation by applying the knowledge of computer programming, analog & digital electronics, measurement & instrumentation.

PSO3: Work efficiently as a member or leader in multidisciplinary engineering projects by using management principles and professional ethics.

Brief overview of the department

The department of Electrical Engineering, Guru Nanak Institute of Technology, Kolkata-700114, has started its auspicious academic journey, under West Bengal University of Technology, presently, MAKAUT-West Bengal, from the year 2003. The department got NBA in 2009 and then again in 2014 for its excellent performance in the arena of technical education. The department has well-equipped Laboratories, qualified and experienced Faculty Members and Technical Staff to educate and train the budding engineers in the areas of Electrical Engineering, applied sciences and humanities, along with training courses on soft skills and aptitude, ensuring high campus placements and admissions into Institutes of higher learning and research.

Course Offered

- * 4-years' B.Tech (Electrical Engineering) from Autonomous Institution GNIT, Affiliated to MAKAUT, West Bengal
- * 3 years Diploma (Electrical Engineering) under West Bengal State Council of Technical Education

Core Strength

- * The Department of EE has well qualified and dedicated faculty.
- * The Department has state-of-the-art Lab facilities like Machine Lab, Power System and SCADA Lab, Control System Lab, Power Electronics & Drives Lab, Measurement Lab, Circuit Theory Lab, to name a few.
- * World class software like MATLAB, PSCAD, ETAP, MULTISIM, PSIM, LabView, SCADA are available in the department to work on top-of-the line projects in various areas of electrical engineering.
- * Excellent central library including separate departmental library and computing, Internet facilities are available.
- * The department is always enthusiastic in conducting various seminars and workshops for the faculty and students to permeate advances in technology.
- * Mechanism is available for direct mentoring of students by faculty, interacting with students, and directing them to upgrade their skills.
- * Students are placed in reputed Core Industries as well as Software/IT Companies.

HOD's message

We are going through an unprecedented global predicament today. Each one of us and the entire world is affected by the coronavirus pandemic; our economy, our families, communities and our entire way of life are adversely affected by the scare of infection and contagion. In these difficult and anxious times, I wanted to reach out to you through Special Edition Newsletter "Electro Impression" and update you how Electrical Engineering (EE) Department at Guru Nanak Institute of Technology (GNIT), is continuing online classes, International & National Webinars, Parent Teachers Meet, Alumni Meet and all sorts of digital activities sportingly and enthusiastically during the ongoing Lockdown period to keep all their Students busy and restricted to Stay at Home. I would express

my thanks to the faculty for their tireless efforts that have come to fruition in the form of this magazine. I wish that this Newsletter would bring a great motivation among students to do their best.

I would also like to express my solidarity with you and your family. I have prayed for you and your families; for your safety and health.

Dr. Barnali Kundu
HOD, EE Dept.

Departmental achievements

Student's Achievements

Academic Achievement

Sl No	Name of Student	Current Semester	YGPA score	Mentor's Name
Students having YGPA above 9 (from each year)				
1	JOY SARKAR	PASSOUT	9.02	MR. SUMAN GHOSH
2	ABHIRUP DAS	PASSOUT	9.02	MR. SUMAN GHOSH
3	AYAN KUMAR KARAR	PASSOUT	9.02	MR. SUMAN GHOSH
4	MOUMITA ROY	PASSOUT	9.06	Ms. PRIYANKA DUTTA
5	SNEHA SARKAR	7th	9.21	Mr. AMIT DEBNATH
6	ARNAB DEY	7th	9.4	Ms. MADHUMITA CHAKRABORTY
7	AVIJIT MONDAL	7th	9.46	Ms. MADHUMITA CHAKRABORTY
8	ANKIT SAHA	7th	9.37	Mr. SHYAMAL KR. ROY
9	NITISH CHAND	7th	9.19	Mr. SHYAMAL KR. ROY

Department of Electrical Engineering

12	SAYAN CHATETERJEE	5th	9.53	Mr. SUSOVAN DUTTA
10	TANUSHREE CHATTERJEE	7th	9.36	Mr. SHYAMAL KR. ROY
11	ROHAN SENGUPTA	5th	9.74	Mr. PRITAM CHOWDHURY
13	TANMAY ROY	5th	9.70	Ms. PRIYANKA DUTTA
14	TOTON BAIDYA	5th	9	Mr. PRITAM CHOWDHURY
Departmental Topper in terms of YGPA (from each year)				
1	MOUMITA ROY	PASSOUT	9.06	Ms. PRIYANKA DUTTA
2	AVIJIT MONDAL	7th	9.46	Ms. MADHUMITA CHAKRABORTY
3	ROHAN SENGUPTA	5th	9.74	Mr. PRITAM CHOWDHURY
Top Student in terms of DGPA only for 2019 passout				
1	JOY SARKAR		8.68	MR. SUMAN GHOSH

Achievement in External Projects, Research, Cultural Events, Sports etc

S I. N	Name of Students	Details of Achievement	Date
1	Pallabi Banerjee, Tridib Mondol & Toton Baidya	Secured 4th Runner Up position in "NASA International Space App Challenge 2019 Hackathon."	21.09.2019
2	Anindita Das, Shirsho Paul, Sk.Sahil,	Secured 3rd position in "Smart Irrigation System" in Budge Budge Institute of Technology- "TECHMEDHA 2K19".	27.09.2019
3	Sourav Pal	Completed 13 hours of Graphic Design Masterclass-Learn GREAT Design On -Line	01.07.2019
4	Sourav Pal	Completed Certification Course on Fundamental of Digital Marketing	31.07.2019

Department of Electrical Engineering

5	Shilajit Dey	Best Wicket keeper in SJSMCT	21.01.2020
6	Subharshi Roy, Bikram Das, Debanjan Chatterjee, Soudip Maji, Sudip Das	Secured Position In Top 8 in "S4DS Innovative Hackathon-2020"	15.10.2020
7	Shuvam Patra, Shubhro Kundu, Sousam Kar	Champion of "Resurrect 2020 Design Thinking Challenge"	12.05.2020 to
8	Arpan Mondal, Ayush kumar Giri, Saumyadeep Bhattacharyya	Received Special Jury Award of "Resurrect 2020 Design Thinking Challenge"	12.05.2020 to 13.05.2020
9	Arijit Das, Ramanuj Bhowmick, Meghna sengupta	Champion of "Resurrect 2020 Design Thinking Challenge"	12.05.2020 to
1 0	Mr. Soumodeep Paul, Mr. Supal Shee, Mr. Sugato Seth, Mr. Rahul	Received Best paper Award in International Congress on Renewable Energy (ICORE) 2020	07.02.2020 to 08.02.2020
1 1	Arpan Mondal, Saumyadeep Bhattacharyya, Debadrita Paul, Sanchayan Banerjee, Mr. Susovan Dutta	Secured 2 nd position in paper presentation in Forum Of Scientists, Engineers & Technologists (FOSET)	March, 2020
1 2	Arpan Mondal, Saumyadeep Bhattacharyya, Ayush Kumar Giri, Debadrita Paul, Sanchayan Banerjee	Winner of Model Display in Annual Technical Fest (TESSERACT 2K20) At GNIT in Young Bidyarthi Award (IEI Centenary Innovative Award 2020	13.03.2020- 14.03.2020
1 3	Arpan Mondal, Saumyadeep Bhattacharyya, Ayush Kumar Giri, Debadrita Paul, Sanchayan Banerjee	Winner of Model Display in National Science Day at GNIT	28.02.2020
1 4	Sk Rizwan Ali, Arpan Mondal, Binay Kr. Singh, Ravikant Bhagat, Smriti Dutta, Kinkini Adhikari	Winner of Poster Presentations on sustainable development on World Engineering Day organized by GNIT	04.03.2020
1 5	Sk Rizwan Ali	Hired for an internship listed on Internshala in "Hamari Pahchan NGO" with INR 500-1000 /month	June, 2020
1 6	Subharshi Roy Bikram Das Debanjan Chatterjee Soudip Maji	Received Best paper Award in International Congress on Renewable Energy (ICORE) 2020	07.02.2020 to 08.02.2020



Secured Position in Top 8 in "S4DS INNOVATIVE HACKATHON-2020"



Young Bidyarthi Award (IEI Centenary Innovative Award 2020)



Winner of Poster Presentations on sustainable development on World Engineering Day organized by GNIT



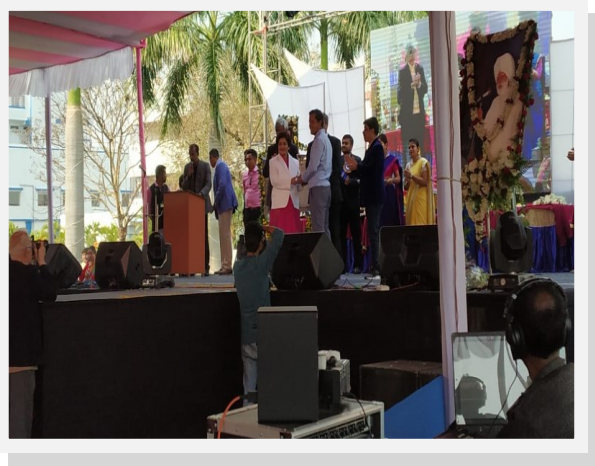
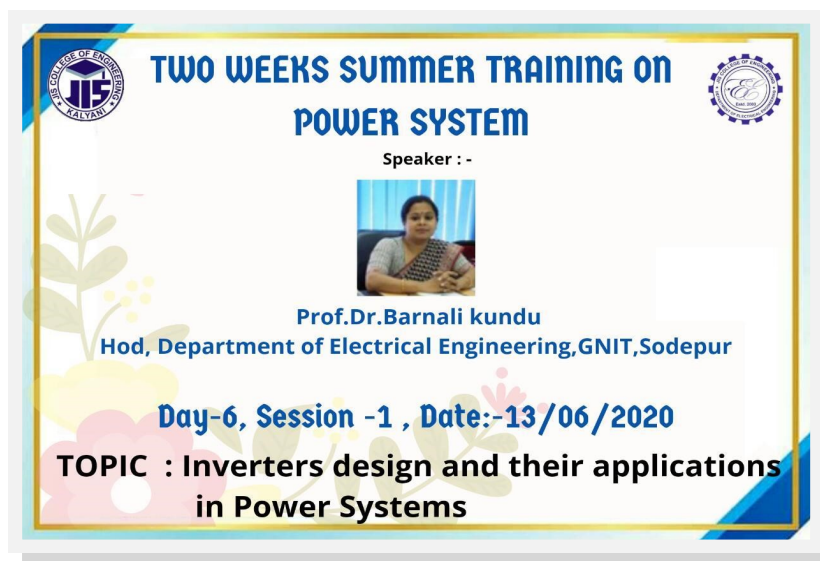
Sk Rizwan Ali, Hired for an internship listed on Internshala in "Hamari Pahchan NGO"

Faculty Achievements

Name of the Faculty/Staff	Details of Achievement
Dr. Barnali Kundu	<ol style="list-style-type: none"> 1. Awarded with "Elite" in NPTEL Online Certification on "Introduction to Smart Grid" 2. Best paper award in international conference ICORE 2020 3. Dr. Barnali Kundu, HOD, EE Dept., GNIT invited as a distinguished speaker for "Two Week Summer Training on Power System" on 13.06.2020 (Day 6, Session 1) organized by JIS College of Engineering, Kalyani and she covered the topic "Inverter Design and their Applications in Power Systems". 4. Invited as a Session Chair in FEMAS, 2019 on 27.09.19
Dr. Debasree Saha	<ol style="list-style-type: none"> 1. Awarded with "Elite" in NPTEL Online Certification on "Fundamentals of Electrical Engineering" 2. Reviewer of International Transactions on Electrical Energy Systems. 3. Winner of Resurrect 2020 Innovations to Handle Post Covid19 Challenges in all the Spheres of Life. 4. Invited as a Session Chair in FEMAS, 2019 on 27.09.19 5. Invited as a Session Chair in ICRT²ES 2020 on 6th March 2020 at Dr. Sudhir Chandra Sur Degree Engineering College.
Mr. Susovan Dutta	<ol style="list-style-type: none"> 1. Technical Paper Titled 'Development of A Low Cost IOT Sensor Suit Framework For Remote Sensing Application' Has Been Awarded 2nd Prize In FOSET 10th Academic Meet. 2. Awarded with "Elite" in NPTEL Online Certification on "DC Microgrid" 3. Winner in Model Display competition in National Science Day celebration in GNIT campus. 4. Mentor of Winner Team of Young Bidyarthi Award (IEI Centenary Innovative Award 2020) 5. Winner of Resurrect 2020 Innovations to Handle Post Covid19 Challenges in all the Spheres of Life.
Mr. Amit Debnath	Received Player of the Tournament, Best Batsman, Player of the Semifinal, Player of the Match in SJSMCT
Mr. Shayamal Kumar Roy	2 nd Runner-up in SJSMBT
Mr. Suman Ghosh	Awarded with "Elite" in NPTEL Online Certification on "Control Engineering"
Bapi Tarafdar	Best Wicket keeper in SJSMCT

Other Departmental Achievement:

- * Department of Electrical Engineering has signed a MOU with “Energy Swaraj Foundation, Mumbai” on June 22, 2020.
- * Dr.Barnali Kundu, HOD, EE Dept., GNIT invited as a distinguished speaker for “Two Week Summer Training on Power System” on 13.06.2020 (Day 6, Session 1) organized by JIS College of Engineering, Kalyani and she covered the topic “Inverter Design and their Applications in Power Systems”



Mr. Amit Debnath Received Player of the Tournament, Best Batsman, Player of the Semifinal, Player of the Match in SJSMTCT

Department of Electrical Engineering

Departmental events

Sl. No	Name of the Event	Date of Conduction	Type of Event	Sponsored By
1	Industry Mentor Meet for Induction Program by Mr. Debnil Chakraborty, Sr. Engineer, CESC	02.08.2019	Industry Mentor Meet	GNIT
2	Industry Alumni Meet for Induction Program by Mr. Siladitya Bhowmik, Lead Engineer, Electrical Design, M. N. Dastur & Company Pvt. Ltd.	02.08.2019	Industry Alumni Meet	GNIT
3	One day seminar on "LV Switchgear" by Mr. Debnil Chakraborty, Sr. Engineer, CESC	07.09.2019	Seminar	GNIT
4	Beyond Syllabus Training On "MATLAB" for 2 nd year B. Tech Students	08.07.2019-16.07.2019	Beyond Syllabus Training	GNIT
5	Beyond Syllabus Training On "Arduino based Microcontroller & Embedded system" for 3 rd year B. Tech Students by EE dept in collaboration with Ardent Computech Pvt. Ltd	15.07.2019-19.07.2019	Beyond Syllabus Training	GNIT
6	Beyond Syllabus Training On "LV switchgear" for 3 rd year B. Tech Students by EE dept in collaboration with Ardent Computech Pvt. Ltd	08.07.2019-19.07.2019	Beyond Syllabus Training	GNIT
7	Publication of Departmental Wall Magazine "Electro Glint"	01.11.2019	Wall Magazine	GNIT
8	9 th Edition of the Newsletter "Electro Impression" has been published	01.10.2019	Newsletter Publication	GNIT
9	BOS Meeting Of EE Department	22.11.2019	BOS Meeting	GNIT
10	Beyond Syllabus Training On "Introduction to Python" for 2 nd year B. Tech Students	06.01.2020-10.01.2020	Beyond Syllabus Training	GNIT
11	Beyond Syllabus Training On "CASPOC tutorial of PVsyst hands on Training" for 3 rd year B. Tech Students	06.01.2020-10.01.2020	Beyond Syllabus Training	GNIT
12	One day Technical Visit to the rooftop solar panel of Guru Nanak Institute of Pharmaceutical Science and Technology for the students of 3 rd year , B.Tech(EE)	10.01.2020	Technical Visit	GNIT
13	International Congress On Renewable Energy (ICORE) - 2020	07.02.2020 – 08.02.2020	International Conference	GNIT & SESI

Department of Electrical Engineering

14	Beyond Syllabus Training On "Introduction to Python" by ARDENT COMPUTECH PVT. LTD.	06.01.2020-10.01.2020	Beyond Syllabus Training for 2 nd year EE Students	GNIT
15	Beyond Syllabus Training On "CASPOC tutorial of PVsyst hands on training" by Ardent Computech PVT. LTD.	06.01.2020-10.01.2020	Beyond Syllabus Training for 3 rd year EE Students	GNIT
16	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	FDP	GNIT
17	Webinar on "Electrical CAD Design" by Tech Tree Technologies	11 th April, 2020	Webinar	GNIT
18	Webinar on "Modern Control Techniques With Disturbance Observer For Microgrid Power System" delivered by Dr. Dipayan Guha Motilal Nehru National Institute of Technology Allahabad	4 th April, 2020	Webinar	GNIT
19	Webinar on "Substation Protection & Automation System" by Mr. Sagnik Choudhury, Electrical Design Engineer, GE T&D India Ltd.	25 th April, 2020	Webinar	GNIT
20	Two-Day Webinar on "Raspberry-Pi" by Experts from Webskitters Academy	4 th -5 th June, 2020	Webinar	GNIT
21	International Webinar entitled "Python & Java Programming" by Dr. Arghya Kusum Das, Assistant Professor, University of Wisconsin-Platteville, USA. He is the Interim Director of the UW-Platteville Campus.	15 th June, 2020	International Webinar	GNIT
22	Webinar entitled "Trends in Energy Market and Policy" by Dr. Asim Datta, Associate Professor & Head, Dept. of Electrical Engineering, Mizoram University (A Central University)	30 th June, 2020	Webinar	GNIT
23	Parent Teachers meet was organised by EE dept for 2 ND & 3 RD year students where Parents have been given their feedback on our digital learning initiatives, webinars and were quite happy with the involvement of their wards in this crisis period.	07.04.2020	Parent Teacher Meet for B.Tech Students	GNIT

Department of Electrical Engineering

24	Parent Teachers meet was organised by EE dept for 2 nd & 3 rd year Diploma students. They were also happy with the involvement of their wards in this crisis period.	09.04.2020	Parent Teacher Meet for Diploma Students	GNIT
25	Webinar on “Transformer – Basic and its Types” by Ms. Madhumita chakraborty, Assistant Professor, EE Dept., GNIT for All 1 st year B. Tech and Diploma Students	26.06.2020	Webinar	GNIT
26	Webinar on “Electrical Engineering in Indian Railways” by Mr. Pritam Chowdhury, Assistant Professor, EE Dept., GNIT for 2 nd year DEE Students	24.06.2020	Webinar	GNIT
27	Webinar on “Design And Implementation Of Optimized Type-II And Type-iii Controllers For DC-DC Switched Mode Converters” by Ms. Priyanka Dutta, Assistant Professor, EE Dept., GNIT for 3 rd year EE Students	24.06.2020	Webinar	GNIT
28	“ALUMNI ADDA”	25/04/2020	Alumni Meet	GNIT
29	“Quiz Info Tech 2020”	27 th and 28 th June 2020	Inter College Quiz Competition	GNIT
30	Lockdown Special Edition Newsletter: “Electro Impression”	25.04.2020	Newsletter Publication	GNIT



One day seminar on “LV Switchgear” by Mr. Debnil Chakraborty, Sr. Engineer, CESC



Industry Alumni Meet for Induction Program by Mr. Siladitya Bhowmik, Lead Engineer, Electrical Design, M. N. Dastur & Company Pvt. Ltd

Department of Electrical Engineering

- * Faculty Development Program On Simulation of Power Electronic Converters, Organized By Department of Electrical Engineering From 21th- 25th October 2019.

<p>ABOUT THE COLLEGE</p> <p>Guru Nanak Institute of Technology was instituted with a vision to empower the aspiring professionals with the technological knowledge and professional expertise under the aegis of JIS Group Educational Initiatives in the year 2003. This technical campus offers undergraduate and post graduate courses under West Bengal University of Technology (WBUT now MAKAUT) and some courses are NBA Accredited. The Institute is approved by AICTE and accredited by UGC, NAAC and located in one of the prime locations in North Kolkata near Sodepur. The Institute offers latest technology oriented courses as per industry trends and nurtures creativity, innovations and research initiatives both at faculty and student levels to enrich and enhance the teaching learning process.</p>	<p>ORGANIZING COMMITTEE</p> <p>Chief Patron: Sardar Taranjit Singh, Managing Director, JIS Group</p> <p>Patron: Mr. Simarpreet Singh, Director, JIS Group</p> <p>EDP Chair: Prof. (Dr.) Santanu Kr. Sen Principal, GNIT</p> <p>Coordinators:</p> <ol style="list-style-type: none"> 1. Dr. Barnali Kundu (HOD) Dept. of Electrical Engineering, GNIT E-mail: head_ec.gnit@jisgroup.org 2. Dr. Debasree Saha Dept. of Electrical Engineering, GNIT E-mail: debasree.saha@gnit.ac.in <p>Address for communication:</p> <ol style="list-style-type: none"> 1. Mr. Suman Ghosh Mobile: +91-798031783 2. Mr. Shyamal Kr. Roy Mobile: +91-8334808086 3. Dr. Debasree Saha Mobile: +91-7005338712 <p>E-mail: fdp.ev2020@gmail.com</p> 	 <p>Faculty Development Program on Simulation of Power Electronic Converters</p> <p>21th - 25th October 2019</p>  <p>Organized by: Dept. of Electrical Engineering Guru Nanak Institute of Technology</p> <p>Platform: Online</p> <p>Click the link for Registration: https://forms.gle/a1dpFy77keb8GQ6p6</p>
<p>ABOUT THE DEPARTMENT</p> <p>Department of Electrical Engineering was started in the year 2003 with the approval from AICTE and subsequently it has been accredited with NBA in the year 2009 and 2014 for 3 year up to 2017. The department as a part of the college offers UG and Diploma Program and the department has grown not only in terms of students and faculty strength but also with the improved laboratory facility for teaching and research purposes. Electrical Engineering Department is constantly pursuing for upliftment of Academic & Professional standard, values & ethics.</p>		

<p>PROGRAM HIGHLIGHTS</p> <p>The importance of Electric Vehicles has grown over the years due to several advantages. Electric Vehicle has a great impact in the energy market. The application of Electric Vehicle (EV) considering renewable energy sources in Smart grid Technology with battery storage system are the burning topics of the research. The objective of this FDP is to introduce advanced academic research in the field of Electric Vehicles to provide knowledge on state of the art technology in EV systems. This 5 days FDP delivers the fundamental knowledge and advancement in design, analysis, control and operating characteristics of EV & HEV in association with Battery storage system. It is also an opportunity to interact with highly experienced academics and industry experts who are working in the Electric Vehicle sector and have readily agreed to share their valuable knowledge with the participants.</p> <p>Topics will be covered:</p> <ul style="list-style-type: none"> ✓ Electric vehicle Technology ✓ Power Electronics converters ✓ Modelling and Design of converters for EV ✓ Electric Drives for EV applications ✓ Modelling and simulation of motors ✓ On-grid RES conversion systems. ✓ Battery Charging Systems for EV ✓ Lithium Ion Battery for EV and applicability to HEV <p>Click the link for Registration: https://forms.gle/a1dpFy77keb8GQ6p6 Who can apply? Faculty members/ Academicians, Research/ PG Scholars, Industrial Professionals/ Delegates.</p>	<p>REGISTRATION FORM</p> <p>5 Days Online Faculty Development Program on Technological Advancements in Electric Vehicle Application 21st - 25th October 2019</p>  <p>REGISTRATION FORM</p> <p>Name of the Participant: _____ Designation: _____ Department: _____ Name of the College: _____ Mobile No: _____ WhatsApp Number: _____ E-Mail ID: _____ Area of Research Interest: _____</p> <p>Registration fee (in Rupees): _____ Mode of Payment: _____ Choose: i. Internet Banking ii. NEFT iii. Mobile Banking Transaction ID: _____ Date of Transaction: mm/dd/yyyy Upload money receipt (.jpg or .pdf file only)</p> <p>Registration Fees: Rs. 500/- (Five Hundred only) The registration fee shall be paid through electronic fund transfer to the A/C Name: Guru Nanak Institute of Technology A/C No.: 33454713045 IFSC Code: SBIN0016642 Branch: GNCC Bank: State Bank of India Participants are requested to inform the Mode of Payment of the transaction at time of registration</p>	<p>RESOURCE PERSONS</p> <div data-bbox="925 1265 1029 1366">  <p>Dr. Robindro Lairenlakpam Principal Scientist & Head, EV Technologies Area, CSIR-Indian Institute of Petroleum, Dehradun</p> </div> <div data-bbox="925 1411 1029 1523">  <p>Prof. (Dr.) Subrata Banerjee Dept. of Electrical Engineering, National Institute of Technology-Durgapur</p> </div> <div data-bbox="925 1556 1029 1657">  <p>Dr. Santu K Giri Principal Scientist CSIR-Central Mechanical Engineering Research Institute</p> </div> <div data-bbox="925 1691 1029 1803">  <p>Prof. (Dr.) Debashis Chatterjee Dept. of Electrical Engineering, Jadavpur University</p> </div> <div data-bbox="925 1836 1029 1937">  <p>Dr. A. S. Prakash Principal Scientist CSIR CECRI-Madras unit CSIR Madras Complex, Tamil Nadu</p> </div>
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Department of Electrical Engineering

- * Faculty Development Program On Automatic Generation Control of Power, Organized By Department of Electrical Engineering From 15th - 19th June 2020.

<p>ABOUT THE COLLEGE</p> <p>Guru Nanak Institute of Technology was instituted with a vision to empower the aspiring professionals with the technological knowledge and professional expertise under the aegis of JIS Group Educational Initiatives in the year 2003. This technical campus offers undergraduate and post graduate courses under West Bengal University of Technology (WBUT now MAKAUT) and some courses are NBA Accredited. The Institute is approved by AICTE and accredited by UGC, NAAC and located in one of the prime locations in North Kolkata near Sodepur. The Institute offers latest technology oriented courses as per industry trends and nurtures creativity, innovations and research initiatives both at faculty and student levels to enrich and enhance the teaching learning process.</p>	<p>ORGANIZING COMMITTEE</p> <p>Chief Patron: Sardar Taranjit Singh, Managing Director, JIS Group</p> <p>Patron: Mr. Simarpreet Singh, Director, JIS Group</p> <p>FDP Chair: Prof. (Dr.) Santanu Kr. Sen Principal, GNIT</p> <p>Coordinators:</p> <ol style="list-style-type: none"> 1. Dr. Barnali Kundu (HOD) Dept. of Electrical Engineering, GNIT E-mail: head_ee.gnit@jisgroup.org 2. Dr. Debasree Saha Dept. of Electrical Engineering, GNIT E-mail: debasree.saha@gnit.ac.in <p>Address for communication:</p> <ol style="list-style-type: none"> 1. Mr. Suman Ghosh Mobile: +91-798031783 2. Mr. Shyamal Kr. Roy Mobile: +91-8334808086 3. Dr. Debasree Saha Mobile: +91-7005338712 <p>E-mail: fdp.ev2020@gmail.com</p> 	 <p>Faculty Development Program on Automatic Generation Control of Power</p> <p>15th - 19th June 2020</p>  <p>Organized by: Dept. of Electrical Engineering Guru Nanak Institute of Technology</p> <p>Platform: Online</p> <p>Click the link for Registration: https://forms.gle/a1dpFy77keb8GQ6p6</p>
<p>ABOUT THE DEPARTMENT</p> <p>Department of Electrical Engineering was started in the year 2003 with the approval from AICTE and subsequently it has been accredited with NBA in the year 2009 and 2014 for 3 year up to 2017. The department as a part of the college offers UG and Diploma Program and the department has grown not only in terms of students and faculty strength but also with the improved laboratory facility for teaching and research purposes. Electrical Engineering Department is constantly pursuing for upliftment of Academic & Professional standard, values & ethics.</p>		

<p>PROGRAM HIGHLIGHTS</p> <p>The importance of Electric Vehicles has grown over the years due to several advantages. Electric Vehicle has a great impact in the energy market. The application of Electric Vehicle (EV) considering renewable energy sources in Smart grid Technology with battery storage system are the burning topics of the research. The objective of this FDP is to introduce advanced academic research in the field of Electric Vehicles to provide knowledge on state of the art technology in EV systems. This 5 days FDP delivers the fundamental knowledge and advancement in design, analysis, control characteristics of EV & HEV in association with Battery storage system. It is also an opportunity to interact with highly experienced academics and industry experts who are working in the Electric Vehicle sector and have readily agreed to share their valuable knowledge with the participants.</p> <p>Topics will be covered:</p> <ul style="list-style-type: none"> ✓ Electric vehicle Technology ✓ Power Electronics converters ✓ Modelling and Design of converters for EV ✓ Electric Drives for EV applications ✓ Modelling and simulation of motors ✓ On-grid RES conversion systems. ✓ Battery Charging Systems for EV ✓ Lithium Ion Battery for EV and applicability to HEV <p>Click the link for Registration: https://forms.gle/a1dpFy77keb8GQ6p6</p> <p>Who can apply? Faculty members/ Academicians, Research/ PG Scholars, Industrial Professionals/ Delegates.</p>	<p>REGISTRATION FORM</p> <p>5 Days Online Faculty Development Program on Technological Advancements in Electric Vehicle Application</p> <p>15th - 19th June 2020</p>  <p>REGISTRATION FORM</p> <p>Name of the Participant: _____ Designation: _____ Department: _____ Name of the College : _____ Mobile No: _____ WhatsApp Number: _____ E-Mail ID: _____ Area of Research Interest: _____</p> <p>Registration fee (in Rupees): _____ Mode of Payment: _____ Choose: i. Internet Banking ii. NEFT iii. Mobile Banking Transaction ID: _____ Date of Transaction: mm/dd/yyyy Upload money receipt (jpg or .pdf file only)</p> <p>Registration Fees: Rs. 500/- (Five Hundred only) The registration fee shall be paid through electronic fund transfer to the A/C Name: Guru Nanak Institute of Technology A/C No.: 33454713045 I.F.S.C. Code: SBIN0016642 Branch: GNCC Bank: State Bank of India Participants are requested to inform the Mode of Payment of the transaction at time of registration</p>	<p>RESOURCE PERSONS</p> <div data-bbox="1045 1265 1141 1366">  <p>Dr. Robindro Lairenlakpam Principal Scientist & Head, EV Technologies Area, CSIR-Indian Institute of Petroleum, Dehradun</p> </div> <div data-bbox="1045 1411 1141 1523">  <p>Prof. (Dr.) Subrata Banerjee Dept. of Electrical Engineering, National Institute of Technology-Durgapur</p> </div> <div data-bbox="1045 1556 1141 1657">  <p>Dr. Santu K Giri Principal Scientist CSIR-Central Mechanical Engineering Research Institute</p> </div> <div data-bbox="1045 1691 1141 1792">  <p>Prof. (Dr.) Debasish Chatterjee Dept. of Electrical Engineering, Jadavpur University</p> </div> <div data-bbox="1045 1825 1141 1926">  <p>Dr. A. S. Prakash Principal Scientist CSIR CECRI-Madras unit CSIR Madras Complex, Tamil Nadu</p> </div>
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Department of Electrical Engineering

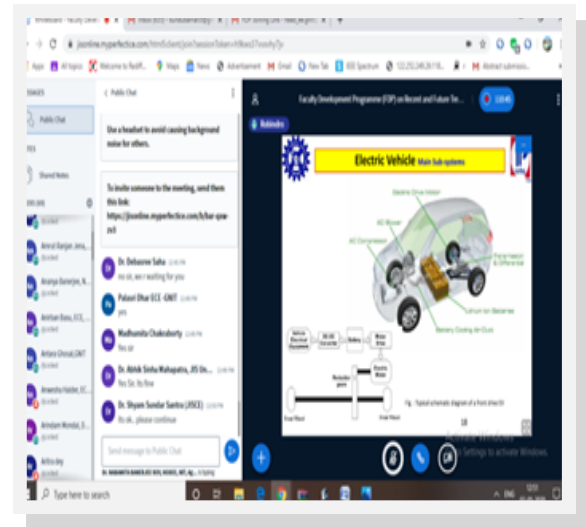
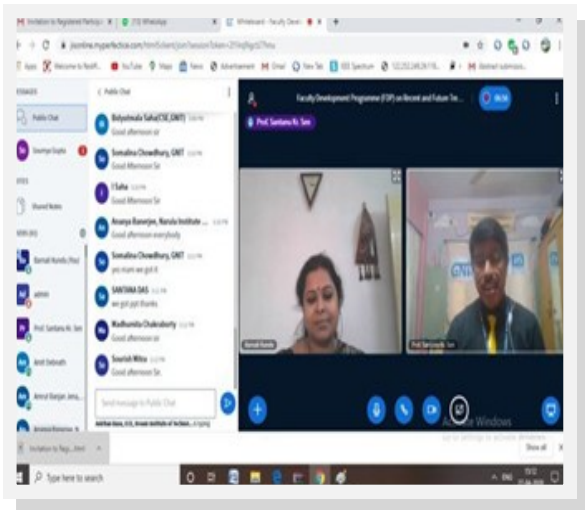


International Congress On Renewable Energy (ICORE) - 2020

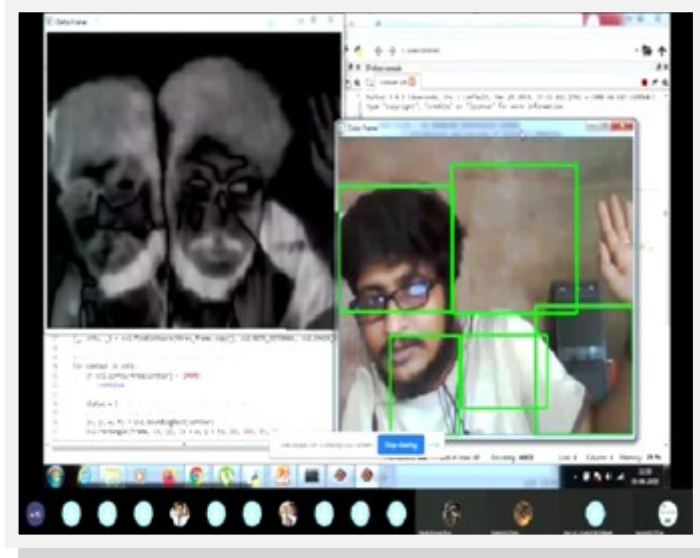
One day Technical Visit to the rooftop solar panel of Guru Nanak Institute of Pharmaceutical Science and Technology for the students of 3rd year , B.Tech(EE)



9th Edition of the Newsletter "Electro Impression" has been published

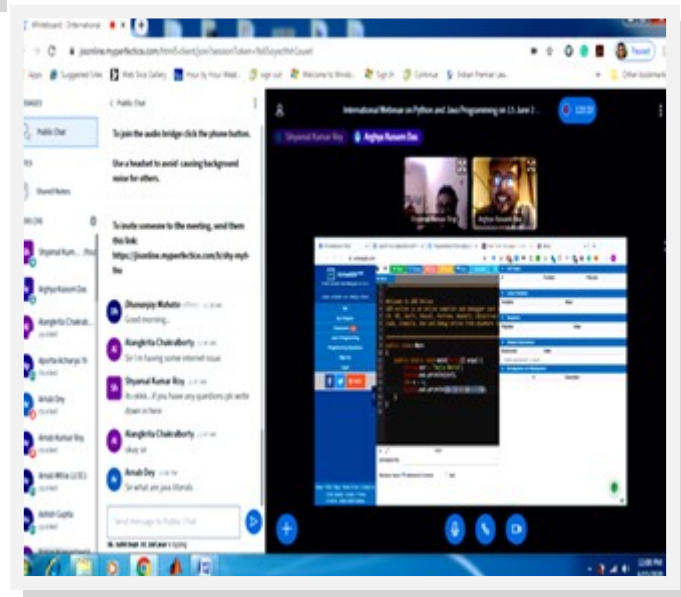


FDP on "Recent and Future Trends in Technology"

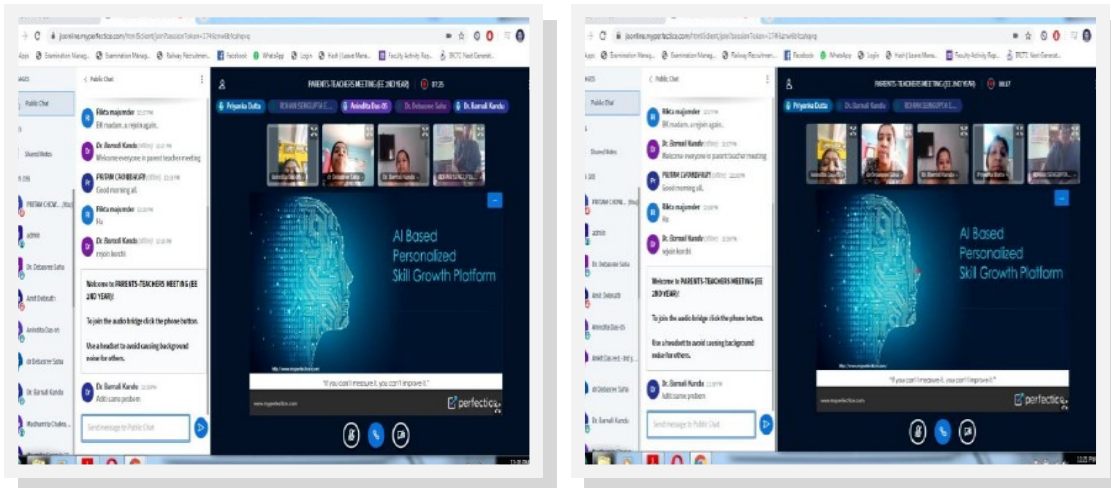


Two-Day Webinar on "Raspberry-Pi" by Experts from Webskitters Academy

International Webinar entitled "Python & Java Programming" by Dr. Arghya Kusum Das, Assistant Professor, University of



Department of Electrical Engineering

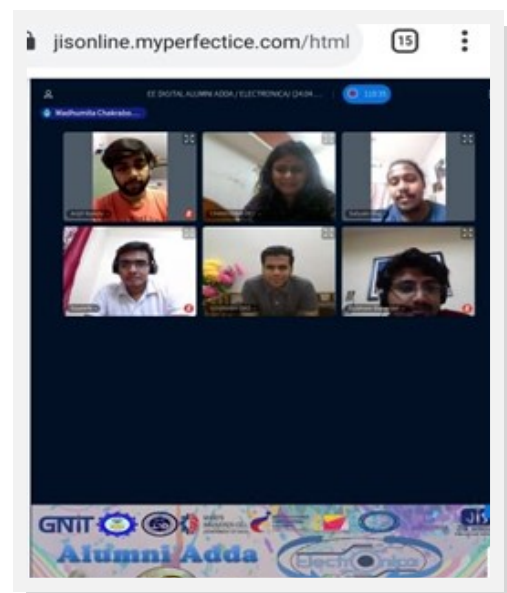


Parent Teachers meet was organised by EE dept



“Quiz Info Tech 2020” organized by Electrical Engineering, between 27 and 28 June 2020

“ALUMNI ADDA” on 25/04/2020



Faculty/ JTA Name	Event Details	Date/ Duration	Organised by
Dr. Barnali Kundu	One week STTP on PYTHON & Machine Learning	06.01.2020 - 11.01.2020	AICTE
	Attended 12 th edition of the Bengal Chamber annual environment energy conclave on sustainability and resources security	29.08.2019	BCCI, ITC SONAR
	Industry Academia meet cum exhibition on Waste management	07/11/2019 - 08/11/2019	MHRD, Govt. Of India
	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Attended Webinar on "Education Roadmap for a New Tomorrow"	29-04-2020	JISCE, from 4pm to 5.30pm.
	"Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups"	07-05-2020	MHRD , IIC
	webinar on "Power System and Components"	26/05/2020	Department of Electrical Engineering, K. K. Wagh Institute of Engineering
	The emerging need for improved power quality	May 12, 2020	ABB Power Grids
Webinar to deliver a lecture on "Substation Protection & Automation System"	25.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114	

Department of Electrical Engineering

Faculty/ JTA Name	Event Details	Date/ Duration	Organised by
Dr. Barnali Kundu	International Webinar on “Operations and maintenance in the oil & gas field of the Industry”	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Intelligent Microgrid Management Part -II ,	13th May 2020	ETAP
	The emerging need for improved power quality	13th May 2020	ABB
	India First Leadership Talk webinar	9th May, 2020	MHRD’s Innovation Cell.
	ETAP Arc Flash Auto-Evaluation	28/05/2020	ETAP
	ETAP iDLS™ Intelligent Distribution Load Shedding	03/06/2020	ETAP
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Online FDP on LaTeX	29/6/2020 to 03/07/2020	Department of Information Technology, Mizoram University
Dr. Debashree Saha	FDP on “Recent and Future Trends in Technology”	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Solving problems for the bottom of the pyramid	10th May 2020	NPTEL
	Privacy and Ethics in Software Industry	2nd May 2020	NPTEL
	What are the Skills for the Future & New Ways of working	19th June 2020	NPTEL
Dr. Debashree Saha	ETAP iDLS™ Intelligent Distribution Load Shedding	03/06/2020	ETAP
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	FDP on “Recent and Future Trends in Technology”	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114

Department of Electrical Engineering

Dr. Debashree Saha	Innovating Education & Skills for Digital Economy	28th June 2020	NPTEL
	"Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups"	07-05-2020	MHRD , IIC
	Webinar on "NBA Process & Margdarshan Initiative"	07-05-2020	AICTE
	LIVE _ What is Electrical Engineering?	3rd June, 2020	NPTEL
	National Webinar on “ Advancements in Industrial Electrical Installation Process	17th June 2020	Department of Electrical Engineering, Mizoram University,
	Introduction to Energy Simulation & Analysis	12th June 2020	Director, GreenTree Global
	webinar “Holistic Approach Towards Reactive Power & Harmonic Distortion Management To Avail Benefits Of Kvah Billing”	30th May 2020	Department of Electrical Engineering, K. K. Wagh Institute of Engineering
	webinar on “Power System and Components”	26/05/2020	Department of Electrical Engineering, K. K. Wagh Institute of Engineering
	Story of Electricity	May 29	Gola Polytechnic, Gola
	The emerging need for improved power quality	May 12, 2020	ABB Power Grids
	Webinar to deliver a lecture on “Substation Protection & Automation System”	25.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	International Webinar on “Operations and maintenance in the oil & gas field of the Industry”	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Intelligent Microgrid Management Part -II ,	13th May 2020	ETAP
	India First Leadership Talk webinar	9th May, 2020	MHRD’s Innovation Cell.
ETAP Arc Flash Auto-Evaluation	28/05/2020	ETAP	

Department of Electrical Engineering

Dr. Debashree Saha	FDP on “Recent Trends In Electrical Engineering”	08/06/2020 to 12/06/2020.	Vishnu Institute of Technology, Bhimabaran
	One Week online Faculty Development Program on “PYTHON 3.4.3”	8th June to 13th June 2020	PRAGATI ENGINEERING COLLEGE
	Online FDP on LaTeX	29/6/2020 to 03/07/2020	Department of Information Technology, Mizoram University
	Faculty Development Program on Next-Generation Semiconductor Devices for high end applications	22nd - 27th June 2020	Electronics and ICT Academy, NIT Patna
Mr. Susovan Dutta	One week short term course on Different simulation tools in electrical engg	02/01/2020 - 06/01/2020	NIT, Durgapur
	Attended 12 th edition of the Bengal Chamber annual environment energy conclave on sustainability and resources security	29.08.2019	BCCI, ITC SONAR
	Industry Academia meet cum exhibition on Waste management	07/11/2019 - 08/11/2019	MHRD, Govt. Of India
	FDP on Machine Learning And Python	23.07.19 - 27.07.19	GNIT
	attended the India First Leadership Talk webinar	2nd May, 2020	MHRD's Innovation Cell
	Rise of AI and Machines: How to start a career in the emerging post Covid Digital World?	26/04/2020	NPTEL
	Attended Webinar on "Education Roadmap for a New Tomorrow"	29-04-2020	JISCE, from 4pm to 5.30pm.

Department of Electrical Engineering

Mr. Susovan Dutta	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	webinar on "Hangout with Emerging Innovator & Entrepreneurs Supported through MIC & AICTE"	30-04-2020	MHRD, IIC
	webinar on "Hangout with Successful Startup Founder IIC Calendar Activity"	04-05-2020	MHRD, IIC
	Introduction to Research	Feb-April, 2020	NPTEL
	Python 101 for Data Science	05/05/2020	IBM
	webinar on "Intelligent Microgrid Management, Part I"	06-05-2020	ETAP
	Webinar on "NBA Process & Margdarshan Initiative"	07-05-2020	AICTE
	webinar on "Intelligent Microgrid Management, Part II"	14-05-2020	ETAP
	ETAP 20: A Unified Digital Twin Platform to Design, Operate & Automate Power Systems - Webinar	20th May, 2020.	ETAP
	Re-Bootng for a Better World	20.06.020	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Arc Flash Auto-Evaluation Webinar	27th May, 2020.	ETAP
Ms. Madhumita Chakraborty	One week STTP on "PYTHON & Machine Learning"	06.01.2020 - 11.01.2020	AICTE
	International Webinar on "Operations and maintenance in the oil & gas field of the Industry"	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Attended Webinar on "Education Roadmap for a New Tomorrow"	29-04-2020	JISCE, from 4pm to 5.30pm.
	Attended Session on "National Innovation and Startup Policy for Students and Faculty 2019 - A Guiding Framework for HEIs for Implementation"	28-04-2020	MHRD's Innovation Cell

Department of Electrical Engineering

Mr. Susovan Dutta	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	One Week Faculty Development Program on "Research and Technical Challenges in Energy and Power System" (RTCEPS 2020)	29.06.2020-04.07.2020	Narula Institute of Technology
	"Data Science and Applications: Present and Future"	30.06.2020	MAKAUT,WB
	Python & Java Programming	Jun 29, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Webinar to deliver a lecture on "Substation Protection & Automation System"	25.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	International Webinar on "Operations and maintenance in the oil & gas field of the Industry"	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
Ms. Rikta Majumder	Attended 12 th edition of the Bengal Chamber annual environment energy conclave on sustainability and resources security	29.08.2019	BCCI, ITC SONAR
	Industry Academia meet cum exhibition on Waste management	07/11/2019 - 08/11/2019	MHRD, Govt. Of India
	Attended the India First Leadership Talk webinar	2nd May, 2020	MHRD's Innovation Cell
	Attended Session on "National Innovation and Startup Policy for Students and Faculty 2019 - A Guiding Framework for HEIs for Implementation"	28-04-2020	MHRD's Innovation Cell

Department of Electrical Engineering

Ms. Rikta Majumder	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Arc Flash Auto-Evaluation Webinar	27th May, 2020.	ETAP
	Ms. Ashwini Deshpande (Co-Founder & Director Elephant Design)	6th Jun	MHRD's Innovation Cell
	Webinar on Start up India	1st April	Sequoia Capital
	ePPC™ Power Plant Controller - Webinar	24th June	ETAP
	attended Leadership Talk	27th Jun	MHRD's Innovation Cell
	"Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups"	07-05-2020	MHRD , IIC
	Data Science and Applications: Present and Future"	30.06.2020	MAKAUT,WB
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	Jun 29, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	The emerging need for improved power quality	May 12, 2020	ABB Power Grids
International Webinar on "Operations and maintenance in the oil & gas field of the Industry"	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-	
Ms. Rikta Majumder	Attended Webinar on "Education Roadmap for a New Tomorrow"	29-04-2020	JISCE, from 4pm to 5.30pm.
	webinar on "Intelligent Microgrid Management, Part I"	07-05-2020	ETAP
	Webinar on "NBA Process & Margdarshan Initiative"	07-05-2020	AICTE
	attended the India First Leadership Talk webinar	9th May, 2020	MHRD's Innovation Cell.
	ETAP 20: A Unified Digital Twin Platform to Design, Operate & Automate Power Systems - Webinar	20th May, 2020.	ETAP

Department of Electrical Engineering

Mr. Shyamal Kr. Roy	Modern Control Systems: Application on Microgrid	4/4/2020, 11:00 am to 1:30 pm	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata 700114
	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Attended Webinar on "Education Roadmap for a New Tomorrow"	29-04-2020	JISCE, from 4pm to 5.30pm.
	One Week Faculty Development Program on Research and Technical Challenges in Energy and Power System (RTCEPS 2020)	29.06.2020-04.07.2020	Narula Institute of Technology
	International Webinar on "Operations and maintenance in the oil & gas field of the Industry"	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Webinar to deliver a lecture on "Substation Protection & Automation System"	25.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Data Science and Applications: Present and Future"	30.06.2020	MAKAUT,WB
Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114	
Ms. Madhumita chakraborty	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Data Science and Applications: Present and Future"	30.06.2020	MAKAUT,WB
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	Jun 29, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	One Week Faculty Development Program on "Research and Technical Challenges in Energy and Power System" (RTCEPS 2020)	29.06.2020-04.07.2020	Narula Institute of Technology

Department of Electrical Engineering

Mr. Shyamal Kr. Roy	International Webinar on Python & Java Programming	Jun 15, 2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Two Days workshop on Raspberry-Pi	June 04, 2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Online Technical Session on Autocad	April 11, 2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Attended the India First Leadership Talk webinar	2nd May, 2020	MHRD's Innovation Cell
	Innovation and Frugal Product Engineering: Quest signalled by COVID	6/27/2020, 5 pm onwards	Special Lecture Series (NPTEL)
	Innovating Education & Skills for Digital Economy	6/28/2020, 6 pm onwards	Special Lecture Series
	The Evolution of and Future Trends in Semiconductors and Electronics	May 21, 2020	Special Lecture Series
	Electric Vehicles in India	May 18, 2020, 7 pm onwards	Special Lecture Series
	Webinar on Trends in Energy Market and policy	June 30, 2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	One day Webinar on "Psychological Issues in a Pandemic Situation-NiT"	June 24, 2020	Narula Institute of Technology
Ms. Madhumita Chakraborty	Transformer-its Basic & Types	26.06.2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Re-Bootng for a Better World	20.06.020	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	PEP Talk	20.06.2020	MHRD, IIC, Incubation Farm Pvt. Ltd. and Guru Nanak Institute of Technology
	Data Science and Applications: Present and Future"	19.06.2020	Chandil, Polytechnic

Department of Electrical Engineering

Ms. Madhumita Chakraborty	Webinar On "Matlab and Simulink for IoT Application in Engineering"	22.06.2020	MAKAUT,WB
	Webinar on Rasberry pi	04.06.2020-05.06.2020	EE, GNIT & Webskitter Academy
	Webinar to deliver a lecture on "Substation Protection & Automation System"	25.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Creativity , Talent & Excellence	09.06.2020	Kaizen Circle of JIS University & BCCI
	Workshop On "Study Of Corona Virus Using Bioinformatics Tool"	06.06.2020	GNIPST-Life Science
	Webinar On "Matlab and Simulink for IoT Application in Engineering"	22/06/2020	MAKAUT,WB
	ICC Webinar - Embracing The New Normal In The World Of Education	27/05/2020	ICC
	Attended the India First Leadership Talk webinar	2nd May, 2020	MHRD's Innovation Cell
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	Jun 29, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Attended Session on "National Innovation and Startup Policy for Students and Faculty 2019 - A Guiding Framework for HEIs for Implementation"	28-04-2020	MHRD's Innovation Cell
	Webinar on Trends in Energy Market and policy	June 30, 2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Electric Vehicles Part-I	FEB-APRIL,2020	NPTEL ONLINE COURSE
	Webinar on "NBA Process & Margdarshan Initiative"	07-05-2020	AICTE
	Application of AI in Modern Era	07.07.2020	Department of Industry Alliance
Mr. Suman Ghosh	webinar on "Role and Importance of Pre-Incubators,Incubators and Accelerators in HEIs - Harnessing Innovation and Entrepreneurial Potential of Students and Faculties at Early Stage"	29-04-2020	IIC, MHRD

Department of Electrical Engineering

Mr. Suman Ghosh	webinar on "Hangout with Emerging Innovator & Entrepreneurs Supported through MIC & AICTE"	30-04-2020	MHRD, IIC
	webinar on "Hangout with Successful Startup Founder IIC Calendar Activity"	04-05-2020	MHRD, IIC
	webinar on Entrepreneurship, Business Idea and Business Model Canavas IIC Calendar Activity,	05-05-2020	MHRD , IIC
	E Session on "How to Ideintify Right Problem and Solution using the Double Diamond Approach in Design"	06-05-2020	MHRD , IIC
	"Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups"	07-05-2020	MHRD , IIC
	webinar on "Intelligent Microgrid Management, Part I"	07-05-2020	ETAP
	Webinar on "NBA Process & Margdarshan Initiative"	07-05-2020	AICTE
	webinar and submitted assignment on "Understanding Role and Application of Marketing Research at Idea to Start up Stage - Foundation Level"	14-05-2020	MHRD, IIC
	webinar on "Innovation Risk Diagnostic – Product Innovation Rubric(PIR)"	15-05-2020	MHRD, IIC
	attended the India First Leadership Talk webinar	16th May 2020 at 01.00 PM	MHRD's Innovation Cell
	attended the India First Leadership Talk webinar	9th May, 2020	MHRD's Innovation Cell.
	Five Day International Workshop on "Generation and Load Balance for Integration of Renewable Energy into Grid"	6th May, 2020 to 10th May, 2020	JIS College of Engineering, Kalyani, West
Mr. Suman Ghosh	Two Day National Workshop on Advances in Energy Storage Technologies, Systems and Materials (AESTSM-2020)	23/01/2020 -24/01/2020	DRDO and CSIR-Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur, India
	webinar on "Grid Connected PV Systems"	08th May, 2020	Department of Electrical Engineering, Integral University, Lucknow.
	Attended the India First Leadership Talk webinar	2nd May, 2020	MHRD's Innovation Cell

Department of Electrical Engineering

Mr. Suman Ghosh	Five days webinar series on "Beyond the Boundaries: Reinventing Horizons"	16th May to 20th May, 2020.	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
	ETAP 20: A Unified Digital Twin Platform to Design, Operate & Automate Power Systems - Webinar	20th May, 2020.	ETAP
	India's First Leadership Talk Series Session	23rd May, 2020.	MHRD's Innovation Cell
	Arc Flash Auto-Evaluation Webinar	27th May, 2020.	ETAP
	attended Leadership Talk	30th May	MHRD's Innovation Cell
	5 Day FDP on "Outcome-based Education and Accreditation".	25th-29th May 2020	IILM College of Engg. & Tech., Greater Noida
	Ms. Ashwini Deshpande (Co-Founder & Director Elephant Design)	6th Jun	MHRD's Innovation Cell
	Shri R Subrahmanyam, IAS (Secretary Ministry of Social Justice & Empowerment)	13th Jun	MHRD's Innovation Cell
	ePPC™ Power Plant Controller - Webinar	24th June	ETAP
	attended Leadership Talk	27th Jun	MHRD's Innovation Cell
	One Week Faculty Development Program on "Research and Technical Challenges in Energy and Power System" (RTCEPS 2020)	29.06.2020-04.07.2020	Narula Institute of Technology
	Data Science and Applications: Present and Future"	30.06.2020	MAKAUT,WB
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	June 29, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	June 15, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114

Department of Electrical Engineering

Mr. Suman Ghosh	Webinar to deliver a lecture on "Substation Protection & Automation System"	25.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	International Webinar on "Operations and maintenance in the oil & gas field of the Industry"	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
Mr. Pritam Chowdhury	Two Day National Workshop on Advances in Energy Storage Technologies, Systems and Materials (AESTSM-2020)	23/01/2020 -24/01/2020	DRDO and CSIR-Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur, India
	A Review of Advanced Power Module Packaging and Thermal Management in WBG Era	09/06/2020	IEEE
	Big Data & Covid 19 : Technologies & Applications	23/06/2020	McGraw Hill
	One Week Faculty Development Program on "Research and Technical Challenges in Energy and Power System" (RTCEPS 2020)	29/06/2020 to 04/07/2020	Narula Institute of Technology
	ePPC™ Power Plant Controller - Webinar	24/06/2020	ETAP
	Webinar on PYTHON	16/06/2020	MSME Tool Room, Kolkata
Mr. Pritam Chowdhury	Attended Webinar on "Education Roadmap for a New Tomorrow"	29/04/2020	JISCE, Kalyani
	Webinar on Research Promotion	26/06/2020	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	29/06/2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Shri R Subrahmanyam, IAS (Secretary Ministry of Social Justice & Empowerment)	13/06/2020	MHRD's Innovation Cell
	Webinar to deliver a lecture on "Substation Protection & Automation System"	25/04/2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114

Department of Electrical Engineering

Mr. Pritam Chowdhury	International Webinar on “Operations and maintenance in the oil & gas field of the Industry”	24/04/2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Webinar on Modern Perspective of Renewable Energy in India	23/04/2020	JISCE, Kalyani
	Webinar On "Data Science And Applications : Present And Future"	30/06/2020	MAKAUT,WB
	Webinar On "Matlab and Simulink for IoT Application in Engineering"	22/06/2020	MAKAUT,WB
	Webinar on “ Advancements in Industrial Electrical Installation Process ”	17/06/2020	Mizoram University,
	Future of Education post Covid	18/06/2020	McGraw Hill
	Role of Marketing in times of Pandemic	11/06/2020	McGraw Hill
	eMTCoS TM : CoSimulation of Electromagnetic & Phasor Transients - Webinar	17/06/2020	ETAP
	Decarbonization and the role of transportation electrification	11/06/2020	ABB
	The utility pathway to digitalization	04/06/2020	ABB
Mr. Pritam Chowdhury	The emerging need for improved power quality	30/05/2020	ABB
	Intelligent Microgrid Management, Part II - Webinar	13/05/2020	ETAP
	ETAP iDLS TM Intelligent Distribution Load Shedding -Webinar	03/06/2020	ETAP
	ETAP Arc Flash Auto-Evaluation -Webinar	28/05/2020	ETAP
	ETAP DC Arc Flash Analysis -Webinar	10/06/2020	ETAP
	Introduction To Machine Learning And Its Application	08/06/2020	K K Wagh Institute Of Engineering Education & Research
	Holistic Approach Towards Reactive Power & Harmonic Distortion Management To Avail Benefits Of Kvah Billing	30/05/2020	K K Wagh Institute Of Engineering Education & Research
Optimized Controller Gains using Optimization Algorithm for Grid-Tied Solar Power Generation with Improved Dynamics and Power Quality	08/06/2020	Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, Telangana	

Department of Electrical Engineering

Mr. Pritam Chowdhury	Optimized Controller Gains using Optimization Algorithm for Grid-Tied Solar Power Generation with Improved Dynamics and Power Quality	08/06/2020	Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, Telangana
	Battery Energy Balancing of Multilevel Inverter fed PV Generation System	09/06/2020	Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, Telangana
	Prospects and Applications of Power Electronics to Present Technology	10/06/2020	Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, Telangana
	Attended the India First Leadership Talk webinar	09/06/2020	MHRD's Innovation Cell.
	Webinar On "Artificial Intelligence & Machine Learning Applications In Now A Days."	25/06/2020	IMPS College of Engineering & Technology, Malda, West Bengal.
	Webinar on Foundations to Frontiers in 5G	26/06/2020	IMPS College of Engineering &
	FDP on "Machine Learning And Python"	23.07.19 - 27.07.19	GNIT
Mr. Amit Debnath	Smart Battery Energy Management and Health Conscious Fast Charging for Future Transport	05/06/2020	IEEE
	A Review of Advanced Power Module Packaging and Thermal Management in WBG Era	02/06/2020	IEEE
	The utility pathway to digitalization	02/06/2020	ABB
	Top 5 reasons to switch to digitally-integrated power transformers	29/05/2020	ABB
	Matlab for Engineering Practice, Science, and Research	11/06/2020	MAKAUT

Department of Electrical Engineering

Mr. Amit Debnath	FDP on "Machine Learning And Python"	23.07.19 - 27.07.19	GNIT
	Power System And Components	26/05/2020	K K Wagh Institute Of Engineering Education & Research
	Introduction To Machine Learning And Its Application	08/06/2020	K K Wagh Institute Of Engineering Education & Research
	Holistic Approach Towards Reactive Power & Harmonic Distortion Management To Avail Benefits Of Kvah Billing	30/05/2020	K K Wagh Institute Of Engineering Education & Research
	The emerging need for improved power quality	30/05/2020	ABB
	Optimized Controller Gains using Optimization Algorithm for Grid-Tied Solar Power Generation with Improved Dynamics and Power Quality	08/06/2020	Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, Telangana
	Battery Energy Balancing of Multilevel Inverter fed PV Generation System	09/06/2020	Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, Telangana
	ETAP iDLS™ Intelligent Distribution Load Shedding	03/06/2020	ETAP
	Digitally delivering the service experience	03/06/2020	ABB
	Prospects and Applications of Power Electronics to Present Technology	10/06/2020	Department of Electrical and Electronics Engineering, Vaagdevi Engineering College, Warangal, Telangana
	Decarbonization and the role of transportation electrification	13/06/2020	ABB
Ms. Priyanka Dutta	Webinar to deliver a lecture on "Substation Protection & Automation System"	25.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	International Webinar on "Operations and maintenance in the oil & gas field of the Industry"	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Attended Webinar on "Education Roadmap for a New Tomorrow"	29-04-2020	JISCE, from 4pm to 5.30pm.

Department of Electrical Engineering

Mr. Amit Debnath	Impact of AI during Pandemic Times	04/06/2020	MCGRAW HILL, INDIA
	Role of Marketing in times of Pandemic	11/06/2020	MCGRAW HILL, INDIA
	Substation Protection And Automation System	25.04.2020 (4.00PM-5.00PM)	Electrical Engineering Dept GNIT
	Operation And Maintaince Oil & Fluid Gas	4/24/20202: 30 p.m. and 3:30 p.m.	Electrical Engineering @ GNIT
	Transmission In Working Culture And Cyber Threats	2nd July, 6.50 p.m.	Department Industry Alience
	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	Jun 29, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Leadership Talk	13/06/2020	MHRD, IIC
	Attended Webinar on "Education Roadmap for a New Tomorrow"	29-04-2020	JISCE, from 4pm to 5.30pm.
	International Webinar on "Operations and maintenance in the oil & gas field of the Industry"	24.04.2020	Department of Electrical Engineering, Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
Ms. Priyanka Dutta	FDP on "Machine Learning And Python"	23.07.19 - 27.07.19	GNIT
	FDP on "Recent and Future Trends in Technology"	27th April to 2nd May, 2020.	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Advancement in Industrial Electrical Installation Process	17th june 11.00a.m.	Mizoram University
	Data Science and Applications: Present and Future"	Jun 30, 2020 3:30 PM	MAKAUT,WB
	Webinar on Research Promotion	Jun 26, 2020,	Guru Nanak Institute of Technology, Sodepur, Kolkata-700114
	Python & Java Programming	Jun 29, 2020	EE Dept. ,Guru Nanak Institute of Technology, Sodepur, Kolkata-700114

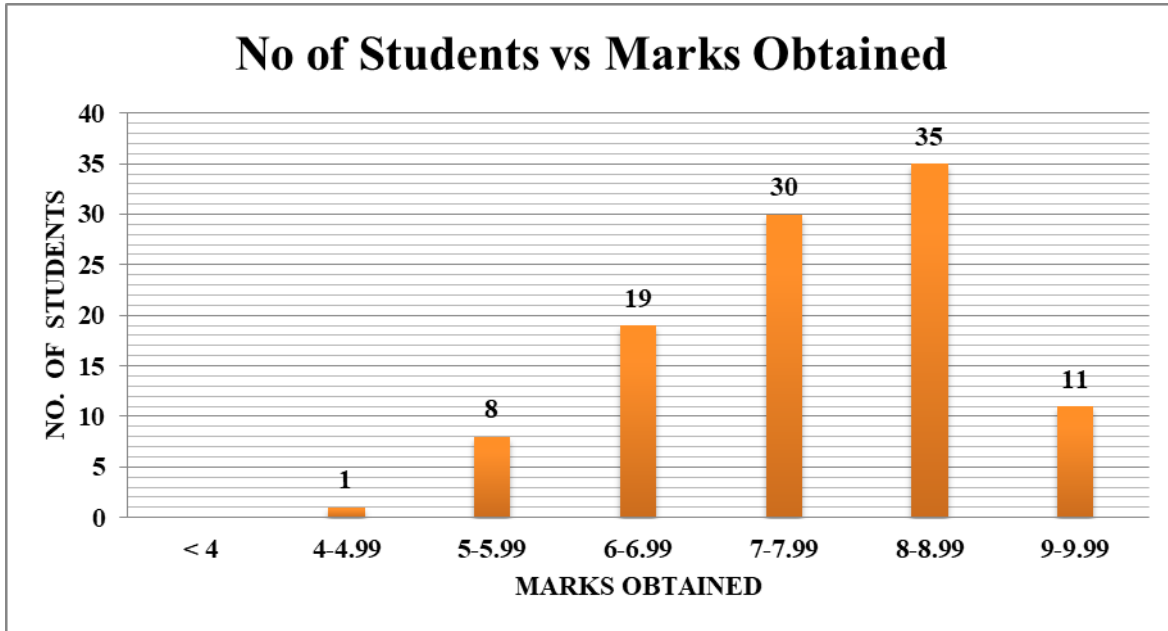
Department of Electrical Engineering

Ms. Subhra Sen	Advancement in Industrial Electrical Installation Process	17th june 11.00a.m.	Mizoram University
	Transformation in working culture and handling Cyber Threats	2nd July, 6.50 p.m.	Department of Industry Alliance
	Operations & Maintenance in Oil & Gas Field	24th April, 2.30 p.m. - 3:30 p.m.	Electrical Engineering Department, GNIT
	Data Science and Applications: Present and Future"	Jun 30, 2020 3:30 PM	MAKAUT,WB
Mr. Viveka nanda Kumar	Attend a webinar on Operation & maintenance in oil and gas field	24.04.2020 (2.30 PM- 3.30 PM)	Electrical Engineering Department, GNIT
	Attend a webinar on "Substation Protection And Automation System"	25.04.2020 (4.00PM- 5.00PM)	Electrical Engineering Department, GNIT
	Transformation in working culture and handling Cyber Threats	02.07.2020 06:50pm to 08:00pm	Department of Industry Alliance
	Trends In Energy Market And Policy	30/06/20 12.00PM TO 2.00 PM	EE Dept., GNIT
	Data Science and Applications: Present and Future"	Jun 30, 2020 3:30 PM	MAKAUT,WB
	Getting Ready For Industry Standard	01.07.2020 11:00am to 12:25pm	Department of Industry Alliance
Mr. Arnab Kumar Roy	Data Science And Applications Present And Future	30/06/20 3.30PM TO 06PM	MAKAUT W.B
	Trends In Energy Market And Policy	30/06/20 12.00PM TO 2.00 PM	EE Dept., GNIT
	Transmission In Working Culture And Cyber Threats	2nd July, 6.50 p.m.	Department Industry Alliance
	Operation And Maintenance Oil & Fluid Gas	4/24/2020: 30 p.m. and 3:30 p.m.	Electrical Engineering @ GNIT
	Attend A Webinar On Substation Protection And Automation System	25.04.2020 (4.00PM- 5.00PM)	Electrical Engineering @ GNIT

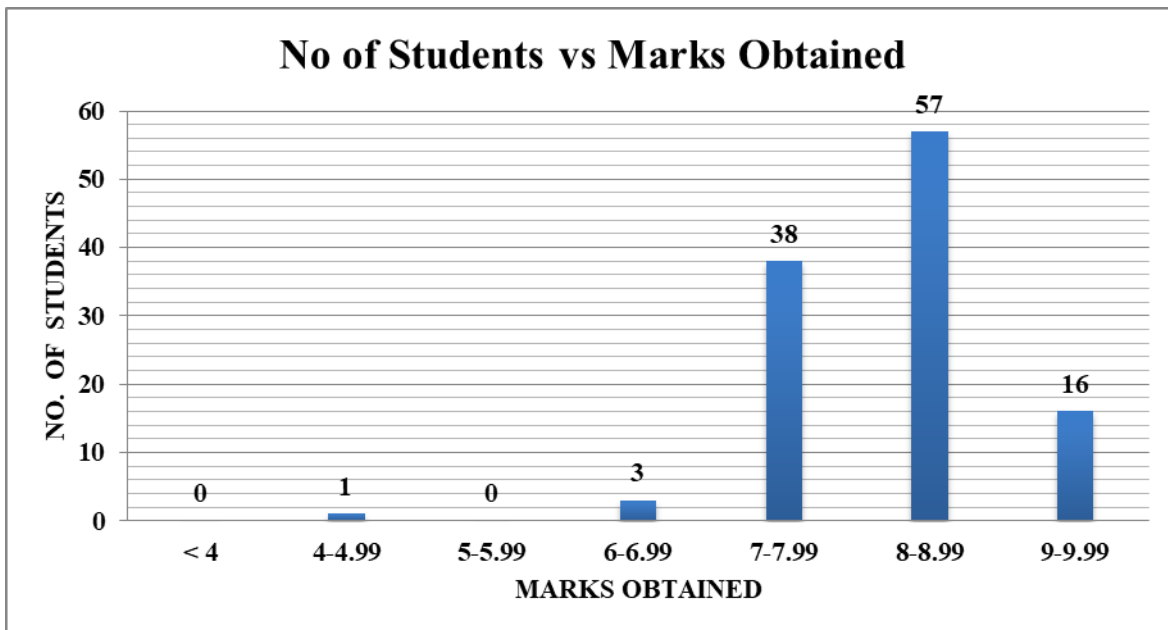
Department of Electrical Engineering

Sl. No.	Date	Details of the Seminar/ Webinar/Workshop/ Industry Meet/ Beyond Syllabus Training	Speaker	Total No. of Participants involved
1	02.08.2019	Industry Mentor Meet for Induction Program	Mr. Debnil Chakraborty, Sr. Engineer, CESC	38
2	02.08.2019	Industry Alumni Meet for Induction Program	Mr. Siladitya Bhowmik, Lead Engineer, Electrical Design, M. N. Dastur & Company Pvt. Ltd.	38
3	07.09.2019	One day seminar on “LV Switchgear”	Mr. Debnil Chakraborty, Sr. Engineer, CESC	62
4	15.07.2019-19.07.2019	Beyond Syllabus Training On “Arduino based Microcontroller & Embedded system”	EE dept in collaboration with Ardent Computech Pvt. Ltd	102
5	08.07.2019-19.07.2019	Beyond Syllabus Training On “LV switchgear”	EE dept in collaboration with Ardent Computech Pvt. Ltd	102
6	06.01.2020-10.01.2020	Beyond Syllabus Training On “Introduction to Python”	EE dept in collaboration with Ardent Computech Pvt. Ltd	76
7	06.01.2020-10.01.2020	Beyond Syllabus Training On “CASPOC tutorial of PVsyst hands on Training”	EE dept in collaboration with Ardent Computech Pvt. Ltd	108
8	11 th April, 2020	Webinar on “Electrical CAD Design”	Tech Tree Technologies	65
9	4 th April, 2020	Webinar on “Modern Control Techniques With Disturbance Observer For Microgrid Power System”	Dr. Dipayan Guha, Motilal Nehru National Institute of Technology Allahabad	119
10	25 th April, 2020	Webinar titled Substation Protection & Automation System on MyPerfectice Platform	Mr. Sagnik Choudhury, Electrical Design Engineer, GE T&D India Ltd.	65
11	4 th -5 th June, 2020.	Two-Day Webinar on “Raspberry-Pi”	Experts from Webskitters Academy	102
12	15 th June, 2020	International Webinar entitled "Python & Java Programming"	Dr. Arghya Kusum Das, Assistant Professor, University of Wisconsin-Platteville, USA. He is the Interim Director of the UW-Platteville Campus.	58
13	30 th June, 2020	Webinar entitled “Trends in Energy Market and Policy”	Dr. Asim Datta, Associate Professor & Head, Dept. of Electrical Engineering, Mizoram University (A Central University)	67
14	26.06.2020	Webinar on “Transformer – Basic and its Types”	Ms. Madhumita Chakraborty, Assistant Professor, EE Dept., GNIT	137
15	24.06.2020	Webinar on “Electrical Engineering in Indian Railways”	Mr. Pritam Chowdhury, Assistant Professor, EE Dept., GNIT	34
16	24.06.2020	Webinar on “Design And Implementation Of Optimized Type-II And Type-iii Controllers For DC -DC Switched Mode Converters”	Ms. Priyanka Dutta, Assistant Professor, EE Dept., GNIT	36

SGPA (5th Sem) - wise result analysis of 2017-2021 Batch EE 3rd Year:

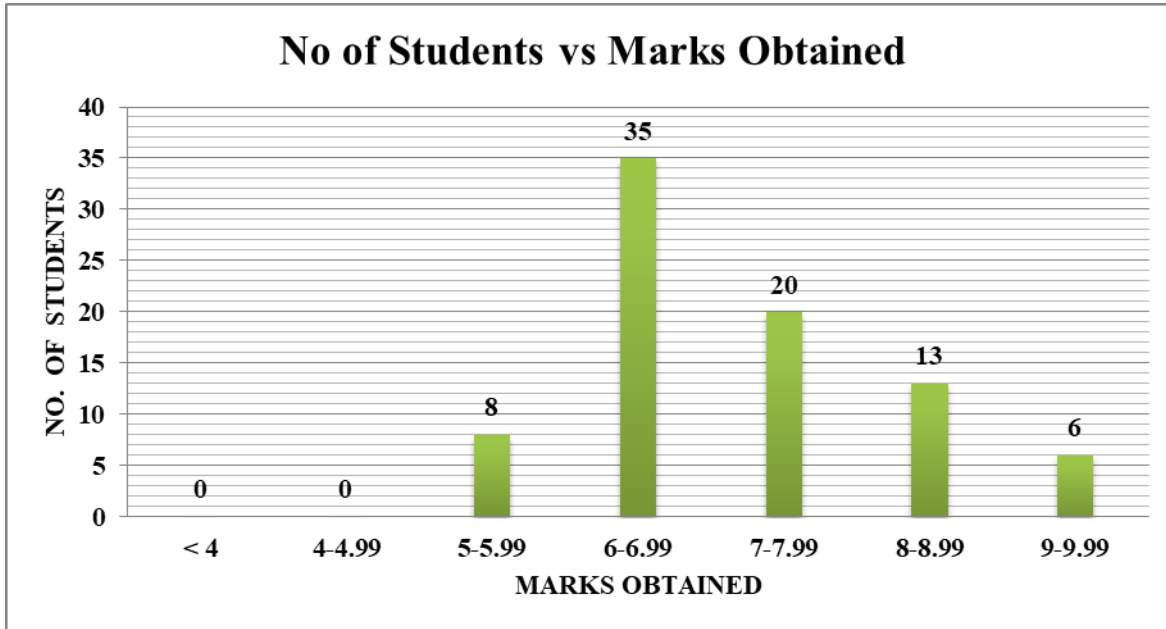


SGPA (7th Sem) - wise result analysis of 2016-2020 Batch EE 4th Year :

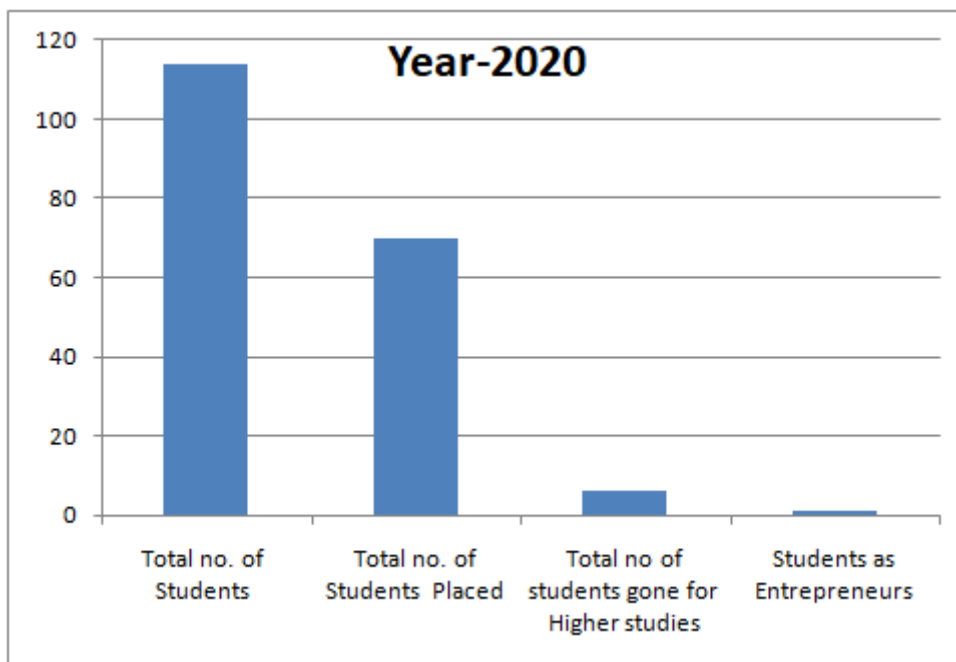


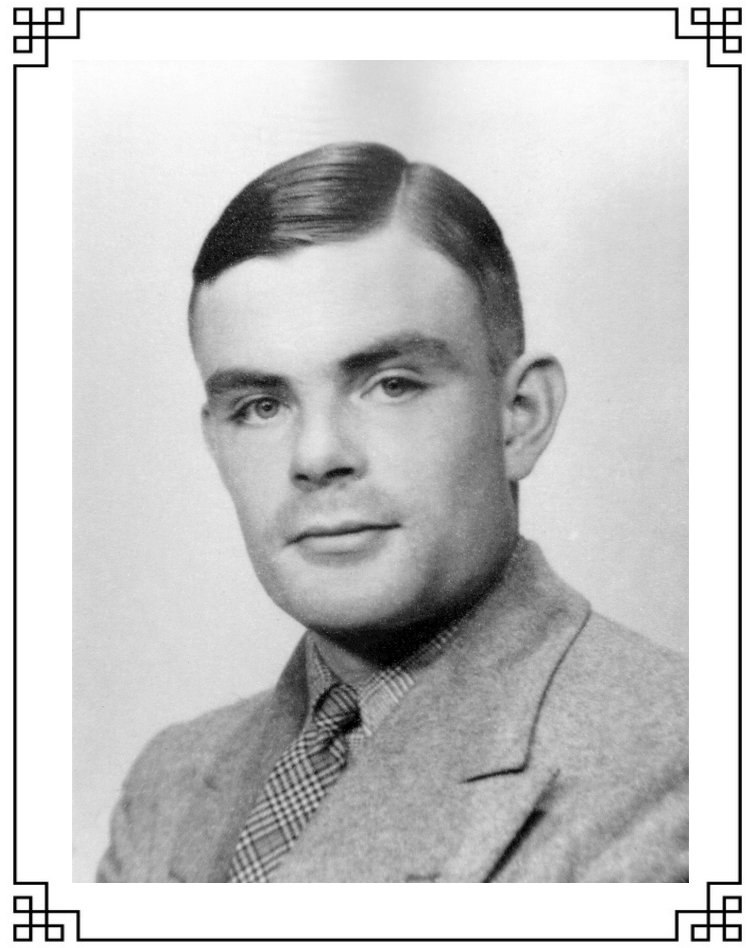
Result Analysis

SGPA (7th Sem) - wise result analysis of 2016-2020 Batch EE 4th Year :



Placement and higher studies





We can only see a short distance
ahead, but we can see plenty there that
needs to be done.

- *Alan Turing* -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Information Technology

ANNUAL REPORT

2019-20

Name of the Department: Information Technology

Vision of the department

To create technical manpower of global standards with capabilities of accepting new challenges in the field of Information Technology to serve the society.

Mission of the department

- * To build a quality and cutting edge technology infrastructure and deliver quality, prompt and reliable technology education services.
- * Establish and maintain an effective academic environment for students.
- * Engage in emerging research areas and establishing leadership.
- * Contribute to the community services at large as well as catering to socio-economic goals in local and national levels.

PEO

PEO1: To prepare students to excel in graduate school or technical careers through a world-class, rigorous and competitive program in the field of Information Technology.

PEO2: To train students across the spectrum of basic and applied science, recognizing and exploiting common descriptions in disparate systems.

PEO3: To train students with sufficient scientific and Information Technology breadth to design and create novel solutions to real-life problems in computing domain.

PEO4: To develop student's professional and ethical attitudes, effective communication and teamwork skills, and an ability to place science and computational issues and solutions within the broader societal context.

PEO5. To provide students with an academic environment committed to excellence and innovation that contributes for developing role ready individual with leadership, professionalism, and life-long learning for professional careers in the field of Information Technology

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- * **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO I: Graduates will be able to apply basic engineering knowledge to understand and analyze basic-complex problems in the field of Information Technology.

PSO II: Graduates will be able to provide optimized solutions for organizations and individuals through Information Technology specific skills.

PSO III: Graduates will be able to work in a group to manage projects and human resources in the field of Information Technology.

PSOIV: Graduates will be able to contribute in the research and development field of Information Technology through the lifelong learning to serve the society and nation

Brief overview of the department

The Dept. of Information Technology, at the Guru Nanak Institute of Technology, Kolkata came into existence in the year 2007 for the benefit of Engineering, Science and Technology and the Nation on a larger scale. The department is renowned for its quality education, placement, discipline and very good learning environment for the students. Since its inception the department has been recognized for excellent in research and teaching. The department has a thriving research environment with active with active research groups in the areas of Artificial Intelligence, Bioinformatics, Complex and Social Networks, Data and Web Mining, and software Engineering. Graduates from the department are heavily recruited by both academia and industry, and ex-students of the department occupy top positions in both academia and industry all over the world.

We are proud of the success of our student alumni over years in industries like

Department of Information Technology

Infosys, TCS, Cognizant, TechMahindra, Wipro, Data 64, Tally, HCL Technology, Accenture, and many more. A handful percentage of students have gone for higher studies in reputed the institutes of India and abroad. Careers in IT are well paying and in high demand, hence our students face competition from engineering students of other branches and have to show their creativity and passion for IT. The aim of our accredited four year B.Tech. programme is to enable students to acquire specialized scientific knowledge, as well as to provide a basis for their personal, social and cognitive development.

The future outlook for Information Technology students is indeed a bright one. Most students that come out of Information Technology dept. have a job already lined up for them when they graduate, because there is a high demand for Information Technology specialists, and not nearly enough people to fill the positions available at the time. There are bright career prospects for information technology professionals or software professionals in recent scenario. With the opening of huge software and IT companies in India, the demand for trained professionals have increased considerably. India is known to be a leader in software and IT sector. Information

HOD Message

It gives me immense pleasure to present brief report of Department of Information of Technology. The Dept. of Information Technology, at the Guru Nanak Institute of Technology, Kolkata came into existence in the year 2007 for the benefit of Engineering, Science and Technology and the Nation on a larger scale. Since its inception, the department of Information Technology has welcomed scholars and enrolled students whose inclination towards creative inquiry changes how we interact with and understand the world. No matter

what the technology, our students and faculty are committed to a passionate pursuit of knowledge. The department has a team of highly experienced and motivated faculty members who are in process of tuning the young minds to make them globally competitive. The strength of the department is highly motivated students who understand the dynamics of the industry and upgrade their skills accordingly. The scope of Information Technology is endless. The students of the Information Technology are highly demanded by the recruiters of the top companies. Depending upon the interest of the student, he/she may choose to go for higher studies or if employed can choose to do research, development, testing or management in the Information Technology industry. In our department we not only give emphasis on study but also apply our knowledge in understanding what computers. We organized various seminars/workshops/industry visits regularly to make familiar students with recent trend in IT Industry.

Among the reasons why our graduates are such favorites of industry is the consistent hands-on experience-based approach of our curriculum, our excellent laboratories, the long-time connections between Department and the industry. Whether you are a student, parent, prospective faculty member or a curious member of the public, I invite you to become part of the GNIT-IT family. We hope you will also have the opportunity to visit us in our state-of-the-art facilities.

Sincerely

Mr. Sudeep Ghosh,

HOD

Department of IT

Departmental achievements

Student's achievements



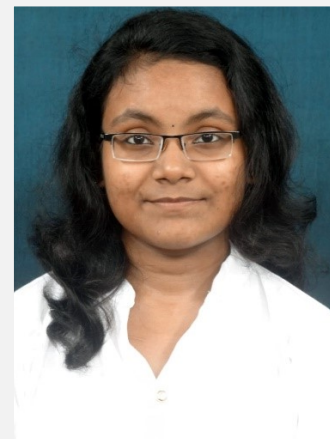
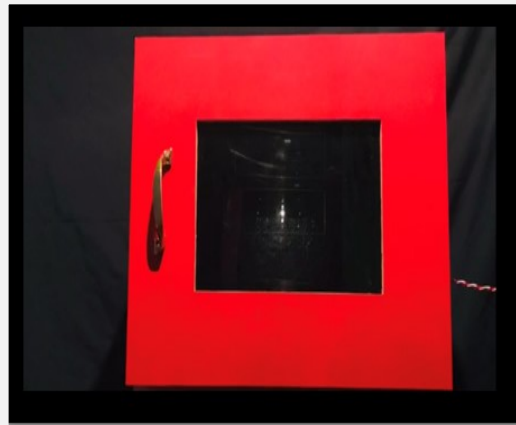
THIS new innovation of COVID-19 mask for doctors will surprise you! -By Katha Roy from GNIT Kolkata



The doings of the novel Coronavirus are infamous the world over. The hospitals are overflowing with patients, and the newborns, who are unaware of the dangerous state of the world, are becoming a part of

Katha Roy,

Student from 2nd Year IT has developed a COVID-19 mask for doctors and the details about this mask has been published in an online portal. She is also winner of "TechSepak-you speak we narrate" an innovation/idea article writing competition organised by Dare2Compete.



Soumyadipta Basu, Sayani Dutta,
students from 2nd year IT

developed a Currency Sanitising KIT, that works on electricity, uses two methods to disinfect the notes or coins we put inside. This machine is made up of Plywood with sun mica on the outside and guarded with Aluminium foil in the interior, this helps to reflect light on the inner walls and increases the impossibility of the substance placed inside it. This machine can sanitise anything that we put in.



Monishankar Nath, 4th year , IT, has been selected for the International Research Awards 2020 for the excellence in, " Hybrid routing protocol in Vehicular Ad-hoc Network ".

Silvia Das,
Student from 2nd year IT
has received KRITI-2019
award of Excellence.



ABHISHEK CHOUDHARY ,
Alumni, Dept of IT
Founder of TECH-DEEKSHA

- * Faculty Development Program On Machine Learning Using Python, Organized By Department of Information Technology From 30.12.19 to 3.1.20.

Advisors:
Dr. Annapurna Das, Director, GNIT
Dr. Sisir Kumar Das, Dean, GNIT

Chairman:
Dr. Santanu Kumar Sen, Principal, GNIT

Convener:
Mr. Sudeep Ghosh, Asst. Prof. & TIC, Dept. of IT

Coordinator:
Ms. Trishita Ghosh, Asst. Prof., Dept. of IT

Organizing Committee:
Mr. Tridib Chakraborty, Asst. Prof., Dept. of IT
Ms. Suparna Karmakar, Asst. Prof., Dept. of IT
Mr. Chowdhury Md. Mizan, Asst. Prof., Dept. of IT
Mr. Prem Sagar Das, JTA, Dept. of IT
Mr. Suraj Kr. Choudhary, 4th Year IT Student
Ms. Ritika Mondal, 3rd Year IT Student
Mr. Rajarshi Saha, 2nd Year IT Student

Contacts:
Ms. Trishita Ghosh
Asst. Professor, Dept. of IT, GNIT
Email ID: trish2921@gmail.com
Mobile: (+91) 9933788789

Ms. Ritika Mondal
3rd Year IT Student
Email ID: ritz2507@gmail.com
Mobile: (+91) 9051360193




**ONE WEEK FDP
ON
Machine Learning Using
Python**

30.12.19 to 3.1.20
---Organized by---
DEPARTMENT OF INFORMATION TECHNOLOGY

GURUNAK INSTITUTE OF TECHNOLOGY
157/F, NILGANJ ROAD, FANIHATI, SODEPUR, KOLKATA-700114

Preface: This faculty development programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to Internet of Things and is open for Faculty members, Research Scholars as well as students of engineering, MCA and other allied degree colleges from states and UTs mentioned above. This Course gives you detailed information about the configuration of services in AWS cloud infrastructure, main course is focused on IAAS, where we have to configure each and every service. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the Workshop:

The proposed FDP introduces concepts of Python and Machine Learning. It covers an overview of Machine Learning algorithms and their applications. The training comprises of a series of lectures and practical exercises. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation to a deeper study in this area. Power dissipation is the main constrain when it comes to Portability. Consumer of the mobile device demands more features and extended battery life at a lower cost. About 70% of users demand longer talk and stand-by time as primary mobile phone feature. Top 3G requirement for operators is power efficiency. Customers want smaller & sleeker mobile devices. This requires high levels of Silicon integration in advanced processes, but advanced processes have inherently higher leakage current. So there is a need to bother more on reducing leakage current to reduce power consumption.

Course Evaluation:

Continuous assessments at logical intervals. Assessment includes MCQ's, Fill in the Blanks, True/False and/or scenario based questions.

Important Dates

Last date of receiving duly filled in Registration form: **28.12.19.**

- **Workshop Date:** 30.12.19 to 3.1.20
- **Venue:** Seminar Hall, GNIT

Topic for Workshop

- Introduction of Machine Learning
- Basic mathematics for Machine Learning
- Introduction to Python Programming Language
- Concept of Machine Learning using Python
- Hands on

Resource Person

1. **Dr. Amlan Chakraborty**
Professor & Head A. K. Choudhury School of IT,
University of Calcutta
2. **Dr. Soumya Sen**
Assistant Professor & Head A. K. Choudhury School of IT,
University of Calcutta
3. **Dr. Bidyut Kumar Medhya**
Professor NARULA INSTITUTE OF TECHNOLOGY
4. **Mr. Rajmohan Dey Sarkar**
Founder and COO, Ardent Computech Pvt. Ltd.
5. **Mr. Tridib Chakraborty**
Assistant Professor, GNIT

Department of Information Technology

- * Faculty Development Program On GREEN COMPUTING, Organized By Department of Information Technology From 22th- 26th JUNE, 2020.

Advisors:
Dr. Annapurna Das, Director, GNIT
Dr. Sisir Kumar Das, Dean, GNIT

Chairman:
Dr. Santanu Kumar Sen, Principal, GNIT

Convener:
Ms. Baisakhi Das, Asst. Prof., Dept. of IT

Coordinator:
Ms. Trishita Ghosh, Asst. Prof., Dept. of IT

Organizing Committee:
Mr. Tridib Chakraborty, Asst. Prof., Dept. of IT
Mr. Sudeep Ghosh, Asst. Prof., Dept. of IT
Ms. Suparna Karmakar, Asst. Prof., Dept. of IT
Mr. Chowdhury Md. Mizan, Asst. Prof., Dept. of IT
Mr. Prem Sagar Das, JTA, Dept. of IT
Ms. Sampurna Mitra, 4th Year IT Student
Ms. Rishiraj Sengupta, 4th Year IT Student
Mr. Namrata Sharma, 4th Year IT Student
Mr. Trideb Ghosh Chowdhury, 4th Year IT Student
Mr. Aman Jha, 4th Year IT Student
Mr. Sumant Kumar, 4th Year IT Student



**ONE WEEK FDP
ON
GREEN COMPUTING**

22TH - 26TH JUNE, 2020

---Organized by---
DEPARTMENT OF INFORMATION TECHNOLOGY
GURUNANAK INSTITUTE OF TECHNOLOGY
157/F, NILGANJ ROAD, PANIHATI, SODEPUR, KOLKATA-700114

Preface: The energy is the backbone for economic growth in the country. In current situation looking in to increase in population in India, the energy requirement for the living being is a challenge. The demand of energy sources is more than the available energy sources. So the current research in the field of energy sources has been diverted to the availability of sufficient cost effective energy sources with its environment friendly utilization techniques. There is tremendous availability of renewable energy sources, but environmental friendly utilization is a matter of concern. This FDP aims to provide exposure to faculty members, practicing engineers, and students to the concepts of Renewable Energy sources like Solar PV, Thermal Energy, Wind Energy, Biomass and their environment friendly applications for livelihood.

The aim of this Faculty Development Program (FDP) is to provide exposure to faculty members, practicing engineers, and students to the concepts of Green Technology and Sustainability Engineering. This course begins with an overview of green energy sustainability, their futuristic technologies and emerging trends. The geographical map of India provides us tremendous potential to tap the wind energy available along the long coast line and solar energy is almost uniformly available in most of the parts of the northern India. The initiatives taken by the Ministry of New and Renewable Energy (MNRE) to achieve the target of solar energy might be 100 GW and wind energy is 60 GW out of 175 GW from renewable energy by 2022, which provides a huge opportunity to all the stakeholders working in this area

Important Dates

Last date of receiving duly filled in Registration form: **20th June, 2020**
Workshop Date: 22nd -26th June 2020
Venue: Google Meet

Topic of FDP:

- Introduction
- Uses of Green computing
- Utilization
- System sizing
- Hands On


Resource Persons:

1. **Dr. Amlan Chakraborty**
Professor & Head A. K. Choudhury School of IT,
University of Calcutta
2. **Dr. Soumya Sen**
Assistant Professor & Head A. K. Choudhury School of IT,
University of Calcutta
3. **Dr. Bidyut Kumar Medhya**
Professor NARULA INSTITUTE OF TECHNOLOGY
4. **Mr. Rajmohan Dey Sarkar**
Founder and COO, Ardent Computech Pvt. Ltd.
5. **Mr. Tridib Chakraborty**
Assistant Professor, GNIT


- * Staff Development Program On MATLAB, Organized By Department of Information Technology From 25th-29th November,2019 .

Stuff Development Program
On
MATLAB
25th-29th November, 2019

Organized by:
**Institute of Engineers (I)
Student Chapter**



**Department of Information
Technology**
Guru Nanak Institute of Technology
GNIT
In collaboration with
ARDENT COMPUTECH PVT LTD



Guru Nanak Institute of Technology
157/F, Nilgunj Road, Panihati,
Sodepur, Kol 114

Chief Patron
Mr. Taranjit Singh, MD, JIS Group

Patron
Mr. Simarpreet Singh, Director, JIS Group
Mr. Amandeep Singh, Director, JIS Group

Advisory Committee
Prof. (Dr.) Annapurna Das, Director, GNIT
Prof. (Dr.) Sisir K Das, Dean, GNIT
Prof. (Dr.) Santanu K Sen, Principal,GNIT

Chairperson
Dr. Santanu Kumar Sen, Principal, GNIT

Convenor
Mr. Sudeep Ghosh, Asst. Prof. & TIC, Dept. of IT

Organizing Committee
Mr. Tridib Chakraborty, Asst. Prof., Dept. of IT
Ms. Suparna Karmakar, Asst. Prof., Dept. of IT
Mr. Chowdhury Md. Mizan, Asst. Prof., Dept. of IT
Mr. Prem Sagar Das, JTA, Dept. of IT

Program Schedule

Registration	: 10:00 a.m.
Technical Session I	: 10:30 a.m. - 1:00 p.m.
Interactive Session	: 1:00 p.m.-1:30p.m.
Break	: 1:30 p.m.-2:00p.m.
Valedictory Session	: 2:00p.m. Onwards

Participants

- Faculty Members
- Technical Staff

Mode of Selection

The filled registration form with self-signature is to be submitted to Registration committee members on the day of seminar. Registration forms are available from the department. Application will be accepted on a first come first serve basis.

No Registration Fee

Time
10:30 a.m. to 1:30p.m.

Contact Person
Ms. Trishita Ghosh
Asst. Professor, Dept. of IT, GNIT Email ID:
trish2921@gmail.com Mobile: (+91)
9933788789

Department of Information Technology

Student Name	Achievements/Prize Category
Joy Mondal, Student of 4th year IT	<ol style="list-style-type: none"> 1. Has received the Best project Award in PHP from "Globsyn Finishing School" for the Project "Online movie ticket booking using PHP MVC FRAMEWORK" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019.
Shubham Mukherjee, Student of 4th year IT	<ol style="list-style-type: none"> 1. Has received the Best project Award in PHP from "Globsyn Finishing School" for the Project "Online movie ticket booking using PHP MVC FRAMEWORK" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019.
Mridul Saha, Student of 4th year IT	<ol style="list-style-type: none"> 1. Has received the Best project Award in PHP from "Globsyn Finishing School" for the Project "Online movie ticket booking using PHP MVC FRAMEWORK" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019.
Najmul Hasan, Student of 4th year IT	<ol style="list-style-type: none"> 1. Has received the Best project Award in PHP from "Globsyn Finishing School" for the Project "Online movie ticket booking using PHP MVC FRAMEWORK" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019.
Mr. Subhamay Sadhukhan, Student of 4th year IT.	<ol style="list-style-type: none"> 1. Has received the the Best project Award in Machine Learning Using Python from "Globsyn Finishing School" for the Project "Customer Churn Detection" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019
Mr. Ritwick Das,Student of 4th year IT	<ol style="list-style-type: none"> 1. Has received the the Best project Award in Machine Learning Using Python from "Globsyn Finishing School" for the Project "Customer Churn Detection" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019
Pritwish Das,Student of 4th year IT	<ol style="list-style-type: none"> 1. Has received the the Best project Award in Machine Learning Using Python from "Globsyn Finishing School" for the Project "Customer Churn Detection" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019
Sumit Saha,Student of 4th year IT	<ol style="list-style-type: none"> 1. Has received the the Best project Award in Machine Learning Using Python from "Globsyn Finishing School" for the Project "Customer Churn Detection" on 27 July,2019. 2. Awarded with the "Faculty Choice Award" from the "Globsyn Finishing School" on 1st August,2019
Puja Mukherjee, 3rd year IT	has been selected in BENGALATHON(Team name: Progress Factor) with the concept of Safer Roads (Blackspot Detection), held in Sept. 2019

Department of Information Technology

Student Name	Achievements/Prize Category
Niladri Sen, 3rd year IT	has been selected in BENGALATHON(Team name: Progress Factor) with the concept of Safer Roads (Blackspot Detection), held in Sept. 2019
Sandipan Kar, 3rd year IT	has been selected in BENGALATHON(Team name: Progress Factor) with the concept of Safer Roads (Blackspot Detection), held in Sept. 2019
Sohom Chowdhury, 3rd year IT	has been selected in BENGALATHON(Team name: Progress Factor) with the concept of Safer Roads (Blackspot Detection), held in Sept. 2019
Anirban Roy, 3rd year IT	has been selected in BENGALATHON(Team name: Progress Factor) with the concept of Safer Roads (Blackspot Detection), held in Sept. 2019
Rizwi Salim, 3rd year IT	has become the winner at Institute level In HACKATHON(by participating in NASA Space App Challenge) and has been selected for the state level HACKATHON IN Sept.2019, with the concept of Rocket Launch Information.
Puja Mukherjee, 3rd year IT	has become the winner at Institute level In HACKATHON(by participating in NASA Space App Challenge) and has been selected for the state level HACKATHON IN Sept.2019, with the concept of Rocket Launch Information.
Niladri Sen, 3rd year IT	has become the winner at Institute level In HACKATHON(by participating in NASA Space App Challenge) and has been selected for the state level HACKATHON IN Sept.2019, with the concept of Rocket Launch Information.
Sandipan Kar, 3rd year IT	has become the winner at Institute level in HACKATHON(by participating in NASA Space App Challenge) and has been selected for the state level HACKATHON IN Sept.2019, with the concept of Rocket Launch Information.
Puja Mukherjee, 3rd year IT	has won the second best paper award(Paper entitled: (3,3) Visual Cryptography for Online Certificate Authentication) in FEMAS 2019 (serial no: FEMAS/2019/39) in the slot of Oral presentation on 26th to 27th Sept. 2019
Sandipan Kar, 3rd year IT	has won the second best paper award(Paper entitled: (3,3) Visual Cryptography for Online Certificate Authentication) in FEMAS 2019 (serial no: FEMAS/2019/39) in the slot of Oral presentation on 26th to 27th Sept. 2019
Niladri Sen, 3rd year IT	has won the second best paper award(Paper entitled: (3,3) Visual Cryptography for Online Certificate Authentication) in FEMAS 2019 (serial no: FEMAS/2019/39) in the slot of Oral presentation on 26th to 27th Sept. 2019
Rizwi Salim, 3rd year IT	has been selected in CII2019 for Model Presentation (A Neural Analytical Model for Water Usage Prediction and Monitoring) on 11th to 12th Sept. 2019

Department of Information Technology

Student Name	Achievements/Prize Category
Megha Singh, 3rd year IT	has been selected in CII2019 for Model Presentation (A Neural Analytical Model for Water Usage Prediction and Monitoring) on 11th to 12th Sept. 2019
Faraz Ali, 3rd year IT	has been selected in CII2019 for Model Presentation (A Neural Analytical Model for Water Usage Prediction and Monitoring) on 11th to 12th Sept. 2019
Indrani Dey, pass out IT	has Received KRITI 2019 Certificate of Excellence in recognition of outstanding performance in NPTEL Course.
Maitri Dey, pass out IT	has Received KRITI 2019 Certificate of Excellence in recognition of Receiving ELITE+SILVER in NPTEL Course on Data Base Management System.
Shalini Roy , 4th year IT	has Received KRITI 2019 Certificate of Excellence in recognition of Receiving ELITE +SILVER in NPTEL Course on Data Base Management System.
Sanjana, 4th year IT	has Received has Received KRITI 2019 Certificate of Excellence in recognition of Receiving YGPA above 9
Mridul Kumar Saha , 4th year IT	has Received has Received KRITI 2019 Certificate of Excellence in recognition of Receiving YGPA above 9
Samarpita Sanki, 4th year IT	has Received has Received KRITI 2019 Certificate of Excellence in recognition of Receiving ELITE in NPTEL Course on Data Base Management System..
Indrani Dey, pass out IT	has Received KRITI 2019 Certificate of Excellence in recognition of outstanding performance in NPTEL Course.
Maitri Dey, pass out IT	has Received KRITI 2019 Certificate of Excellence in recognition of Receiving ELITE+SILVER in NPTEL Course on Data Base Management System.
Shalini Roy , 4th year IT	has Received KRITI 2019 Certificate of Excellence in recognition of Receiving ELITE+SILVER in NPTEL Course on Data Base Management System.
Sanjana, 4th year IT	has Received has Received KRITI 2019 Certificate of Excellence in recognition of Receiving YGPA above 9.
Samarpita Sanki, 4th year IT	has Received has Received KRITI 2019 Certificate of Excellence in recognition of Receiving ELITE in NPTEL Course on Data Base Management System..
Subhanwita Saha, 4th year IT	has Received KRITI 2019 certificate as Departmental Topper in terms of YGPA.

Department of Information Technology

Student Name	Achievements/Prize Category
Titas RoyChowdhury, pass out IT	has Received KRITI 2019 certificate as Departmental Topper in terms of YGPA.
Indrani Dey, pass out IT	has Received KRITI 2019 certificate as TOP STUDENT in terms of DGPA.
Sayani Dutta, 2nd year IT	has participated in SIH 2020 college round, and has been qualified for the final round.
Soumyadipta Basu, 2nd year IT	has participated in SIH 2020 college round, and has been qualified for the final round.
Silvia Das	has participated in SIH 2020 college round, and has been qualified for the final round.
Nirnoy Saha	has participated in SIH 2020 college round, and has been qualified for the final round.
Subhojit Pandey	has participated in SIH 2020 college round, and has been qualified for the final round.
Sayani Sengupta, 2nd year IT	has participated in SIH 2020 college round, and has been qualified for the final round.
Katha Roy, 2nd year IT	has participated in SIH 2020 college round, and has been qualified for the final round.
Aniket Shaw, 2nd year IT	has participated in SIH 2020 college round, and has been qualified for the final round.
Debayan Roy, 2nd year IT	has participated in SIH 2020 college round, and has been qualified for the final round.
Ishaan Goswami, 2nd year IT	has participated in SIH 2020 college round, and has been qualified for the final round.
Rudra Halder, 3rd year IT	has won 1 st Runner up in Mens Double Badminton hosted by Budge Budge Institute of Technology and Jaganath Gupta Institute of Medical Science and Hospital during (5 th -7 th February, 2020)
Rachita Bhadra, 4 th year, IT	has become the Winner of Cine Short category in FELICIFIC v1.0, organized by GNIT media Team

Faculties' achievements

Sl.	Particulars
1	Mr. Tridib Chakraborty , has received KRITI-2019 award of appreciation as being the mentor of the winning team "Byte Me Up" in Smart India Hackathon-2019 Grand Finale , at Nodal Center C.V.Raman Engineering College, Bhubaneswar
2	Miss. Suparna Karmakar has received KRITI -2019 certificate of Appreciation in recognition of her role as mentor in NPTEL course in DBMS.
3	Mr Sudeep Ghosh , has received KRITI -2019 certificate of Appreciation for publishing the Patent. Title:A REMOTE CONTROL SYSTEM FOR CONTROLLING A SURVEILLANCE VEHICLE INCLUDING CAMERA WITH A SMART PHONE
4	Miss. Suparna Karmakar has received KRITI -2019 certificate of Appreciation in recognition of her role in GNIT media team.
5	Mrs. Trishita Ghosh , has received KRITI -2019 certificate of Appreciation for publishing the Patent. Title:A REMOTE CONTROL SYSTEM FOR CONTROLLING A SURVEILLANCE VEHICLE INCLUDING CAMERA WITH A SMART PHONE
6	Mr. Chowdhury Md. Mizan has received KRITI -2019 certificate of Appreciation in recognition of her role as distinguished mentor.
7	Miss. Suparna Karmakar has received KRITI-2019 for securing Elite Status in NPTEL examination (Course: Big Data Computing) Feb-April,2019 . She has secured 69% marks.

Departmental events Organized

Name of the Event	Date of Conduction	Type	Organized by	Sponsored By
Two Weeks Industrial Training on Internet of Things IoT	14/05/2020 to 28/05/2020	Online Industrial training for two weeks during Lock down.	IE student chapter of Department of IT in collaboration with learn A Byte	GNIT
Two Weeks Industrial Training on Web Development	14/05/2020 to 28/05/2020	Online Industrial training for two weeks during Lock down.	IE student chapter of Department of IT in collaboration with learn A Byte	GNIT
Webinar on Mobile Application Development Using	9/5/2020	Online Webinar During lock down.	IE student chapter of Department of IT in collaboration with learn A Byte	GNIT
Two Weeks Industrial Training on Web Development	6/5/2020 to 19/5/2020	Online Industrial training for two weeks during Lock down.	IE student chapter of Department of IT in collaboration with Micropo	GNIT
Three days Online Workshop on Python programming	29/04/2020 to 01/05/2020	Online Workshop during Lock down	IE student chapter of Department of IT in collaboration with Ardent Computech Ltd.	GNIT
Webinar on PHP & MySql	29/04/2020	Online webinar During lockdown	IE student chapter of Department of IT in collaboration with Ogma Tech pvt ltd. Ltd.	GNIT
Webinar on Raspberry PI with Python	22/04/2020	Online webinar During lockdown	IE student chapter of Department of IT in collaboration with Webskitters	GNIT
Online Alumni Meet	19/04/2020	Online Alumni Meet	IE student chapter of Department of IT	GNIT
Digital Parent-Teacher Meet	15/04/2020 & 16/04/2020	Online Parent Meet	Department of IT	GNIT
Webinar on “Machine Learning Using Python”	16/04/2020	Online webinar During lockdown	IE student chapter of Department of IT	GNIT
Webinar by Alumni	16/04/2020	Online webinar by Alumni	IE student chapter of Department of IT. Speaker: Ms Sampurna Mitra, Associate Consultant, Capgemini, Sweden	GNIT
Online Debate Competition	13/04/2020	Online Debate during Lockdown	IE student chapter of Department.	GNIT

Department of Information Technology

Name of the Event	Date of Conduction	Type	Organized by	Sponsored By
Online Quiz	12/04/2020	Online Quiz during Lockdown	IE student chapter of Department.	GNIT
Webinar on Big Data HADOOP	11/04/2020	Online Industry Mentor Meet During lockdown	IE student chapter of Department. Speaker from CTS, Kolkata	GNIT
International Webinar on "Artificial Intelligence: Nuts and Bolts of Deep Learning	06/04/2020	International Webinar During lockdown	IE student chapter of Department. Speaker: Mr. Vaibhav Verdhhan, Principal Data Scientist, Johnson & Johnson Vision Care, Ireland.	GNIT
Web development using PHP and Angular JS	01/04/2020	Online Industry Mentor Meet During lockdown.	IE student chapter of Department. Speaker from CTS, Kolkata	GNIT
Webinar on Ethical Hacking using Python	27/03/2020	Online Workshop during Lock down	IE student chapter of Department of IT in collaboration with Ardent Computech Ltd.	GNIT
Blended Learning by the Students of Department of IT	3 Months, Started from 28/03/2020	Online special course	IE student chapter of Department of IT & Cyber Security Cell.	GNIT
Technical Aptitude test for 3rd year IT students.	12/02/20	One day Aptitude Test	IE student chapter of Department of IT.	GNIT
Technical Aptitude test for 3rd year IT students.	12/11/19	One day Aptitude Test	IE student chapter of Department of IT.	GNIT
Training on OOP with C++ and Java	16/12/19 to 22/12/2019	One Week Training program	Department of IT	GNIT
Training on Cyber Security	16/12/19 to 22/12/2019	One Week Training program	Department of IT	GNIT
Industry Mentor Meets for 2nd year Students	31/08/2019	Industry mentor meet. Speaker : Mr. Dipankar Saha, CTS kolkata	Department of IT	GNIT
Industry Visit at OPA Technology Solution	17/08/2019	Industry Visit	Department of IT	GNIT

Department of Information Technology

Name of the Event	Date of Conduction	Type	Organized by	Sponsored By
One-month Special Training on Natural Language Processing	03/07/2019 to 30/072019	One Month Special Training, Speaker: Professor, aris-Est Marne-la-Vallée University, FRANCE	JIS Group	JIS Group
Training on Android Development	15/07/2019 to 20/07/2019	Beyond Syllabus Training	Department of IT	GNIT
Training on Arduino Programming	08/07/2019 to 12/072019	Beyond Syllabus Training	Department of IT	GNIT
Training on Unix and Shell Programming	15/07/2019 to 20/07/2019	Beyond Syllabus Training	Department of IT	GNIT
Training on Computer Fundamentals and C Programming	08/07/2019 to 12/072019	Beyond Syllabus Training	Department of IT	GNIT
Work Shop to familiar with Hacker Earth Platform	11/07/2019	Workshop	Department of IT	GNIT
Work Shop on Cyber Security	Once in a week from August, 2019	Workshop	Department of IT & Cyber Security Cell.	GNIT

Faculties' participation

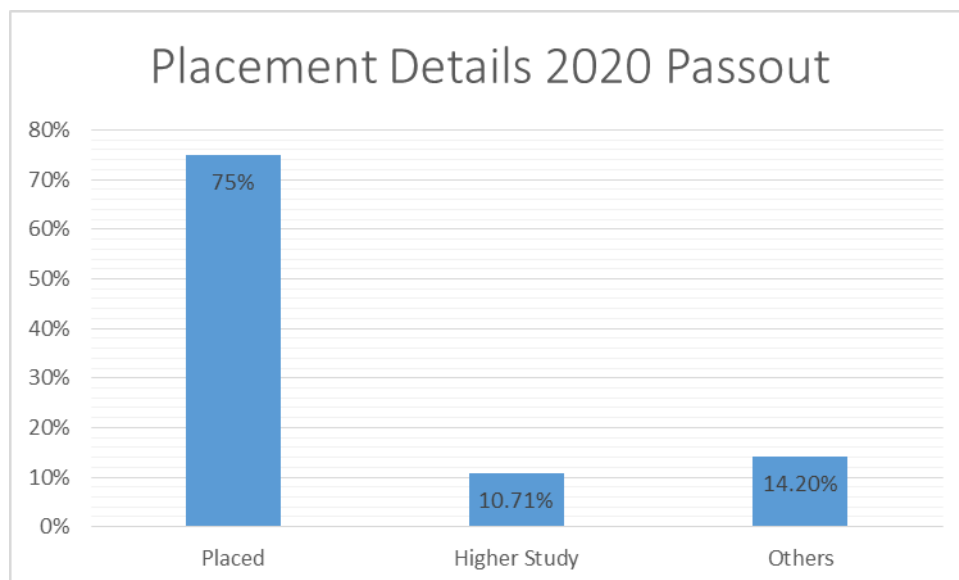
Seminar Conference attended by Faculty			
SL No.	Faculty Name	Details	Date
1	Tridib Chakraborty	Interaction with Student Innovators and Entrepreneurs Emerged from Smart India Hackathon (SIH) MIC Driven Activity Speaker Pulakit jain Lokesh Goswami Arpit Nandi Entrepreneurship Development	22/05/2020
2	Tridib Chakraborty	Use of Market Data and Application of Marketing Research Tools and Methodology - Increasing Chances of Survivability of Innovation and Venture - Advance Level MIC Driven Activity Speaker Dr. Preet Deep Singh Entrepreneurship Development	14/05/2020
3	Tridib Chakraborty	How to Identify Right Problem and Solution using the Double Diamond Approach in Design MIC Driven Activity. Speaker Prajakta Kulkarni Sanket Inamdar Design thinking and Innovation: The Double Diamond Process	06/05/202
4	Tridib Chakraborty	Legal and Ethical Steps - Productive Entrepreneurship and Startup IIC Calendar Activity Speaker Mr. Harit Mohan IPR and Technology Transfer	12/05/2020
5	Sudee Ghosh	Need of mathematical cryptology and digital forensic in current society. Organised by Presidency University, Kolkata	30/05/2020
6	Sudee Ghosh	Webinar on COVID-19 measures and mental wellness. Organized by IEEE Kharagpur Section WIE in association with IEEE India Council. Speaker: Dr. Ravi Kumar Sharma,	05/05/2019
7	Sudee Ghosh	Webinar on "Data Science and Applications: Present and Future". Organised By MAKUT	30/06/2020
8	Trishita Ghosh	Webinar on "Data Science and Applications: Present and Future". Organised By MAKUT	30/06/2020

Department of Information Technology

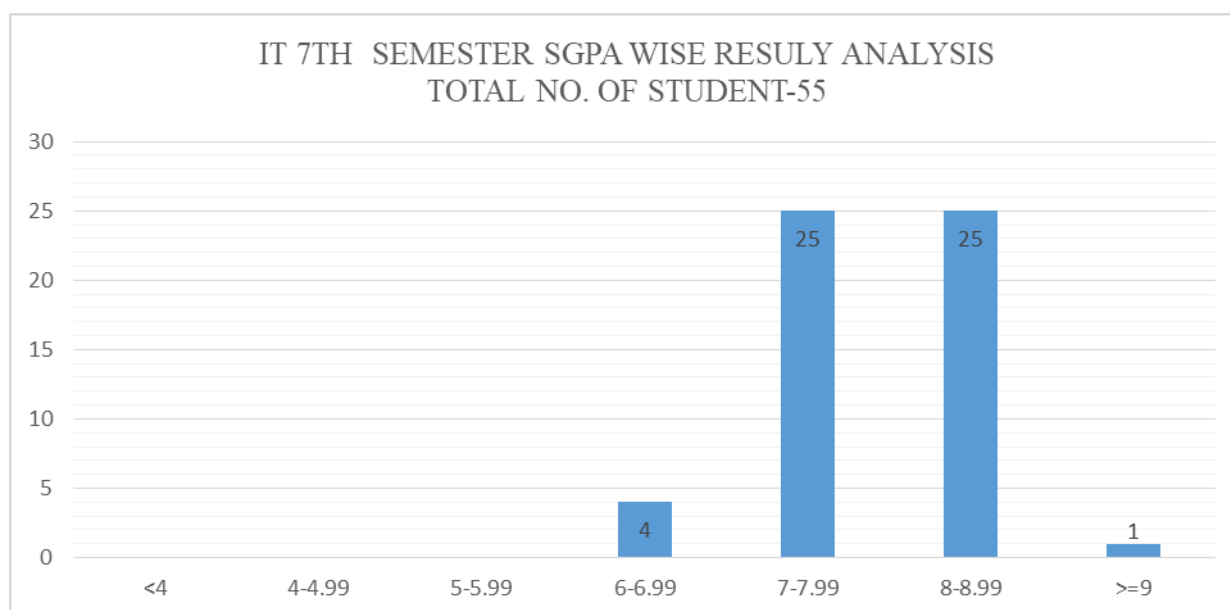
Seminar Conference attended by Faculty			
SL No.	Faculty Name	Details	Date
9	Suparna Karmakar	Webinar on "Data Science and Applications: Present and Future". Organised By MAKUT	30/06/2020
10	Chowdhury Md. Mizan	Webinar on "Data Science and Applications: Present and Future". Organised By MAKUT	30/06/2020
11	Ms. Trishita Ghosh	Amazon Web Services (AWS) Initiate	20/8/2019
12	Mr. Sudeep Ghosh	Invited Talk by Prof. Soumitro Banerjee, IISER Title:Fractal Geometry in Nature and Engineering	17/11/2019
13	Ms. Suparna Karmakar	Invited Talk by Prof. Soumitro Banerjee, IISER Title:Fractal Geometry in Nature and Engineering	17/11/2019

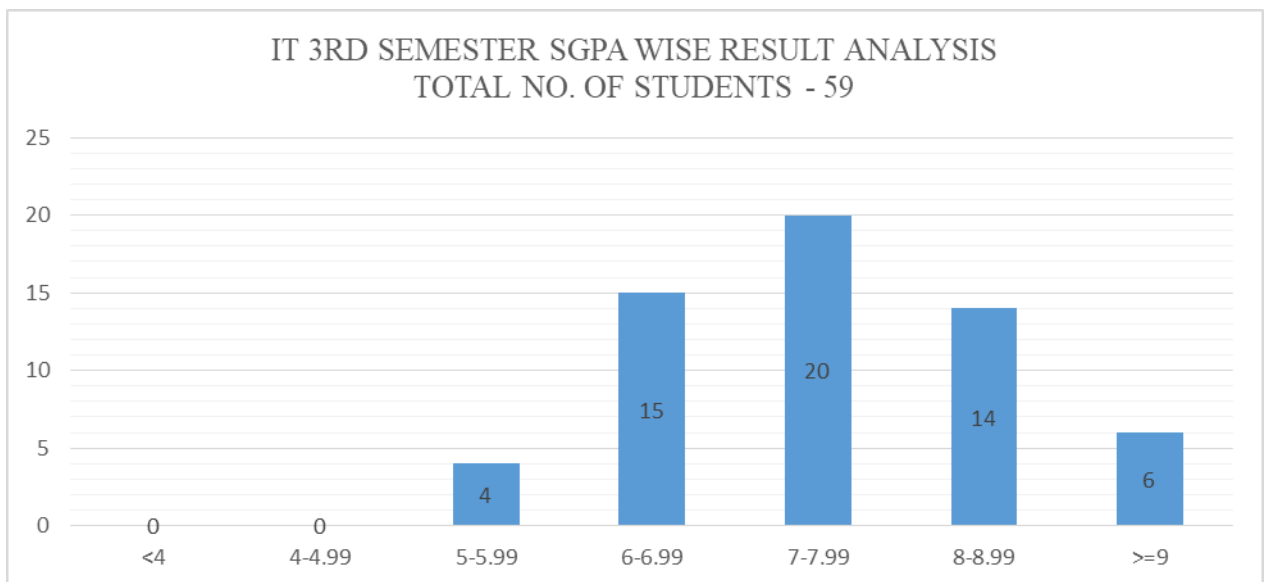
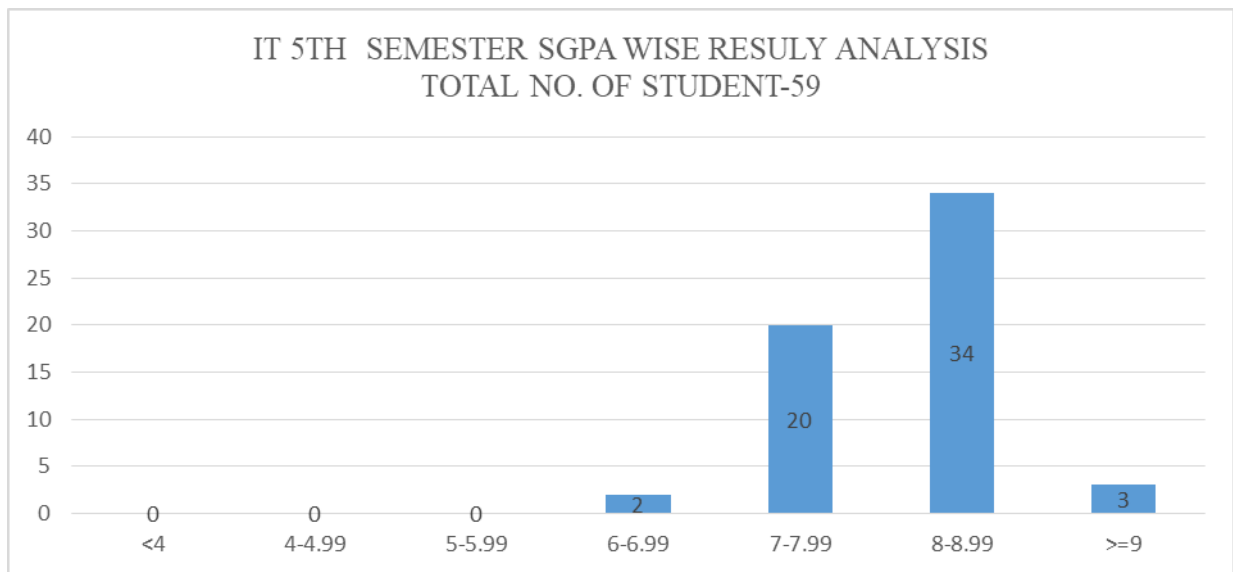
Faculty Development Program Attended by Faculty Member			
SL No.	Faculty Name	Details	Date
1	Sudeep Ghosh	Recent and Future Trends in Technology, Organised by Electrical Engineering Department, GNIT ,Sodepur	22nd April to 2nd May, 2020
2	Trishita Ghosh	Recent and Future Trends in Technology, Organised by Electrical Engineering Department, GNIT ,Sodepur	22nd April to 2nd May, 2020
3	Suparna Karmakar	Recent and Future Trends in Technology, Organised by Electrical Engineering Department, GNIT ,Sodepur	22nd April to 2nd May, 2020
4	Chowdhury Md. Mizan	Recent and Future Trends in Technology, Organised by Electrical Engineering Department, GNIT ,Sodepur	22nd April to 2nd May, 2020
5	Tridib Chakraborty	Recent and Future Trends in Technology, Organised by Electrical Engineering Department, GNIT ,Sodepur	22nd April to 2nd May, 2020
6	Chowdhury Md. Mizan	One week workshop on Cloud computing	15 th July 2019 to 19 th July, 2019

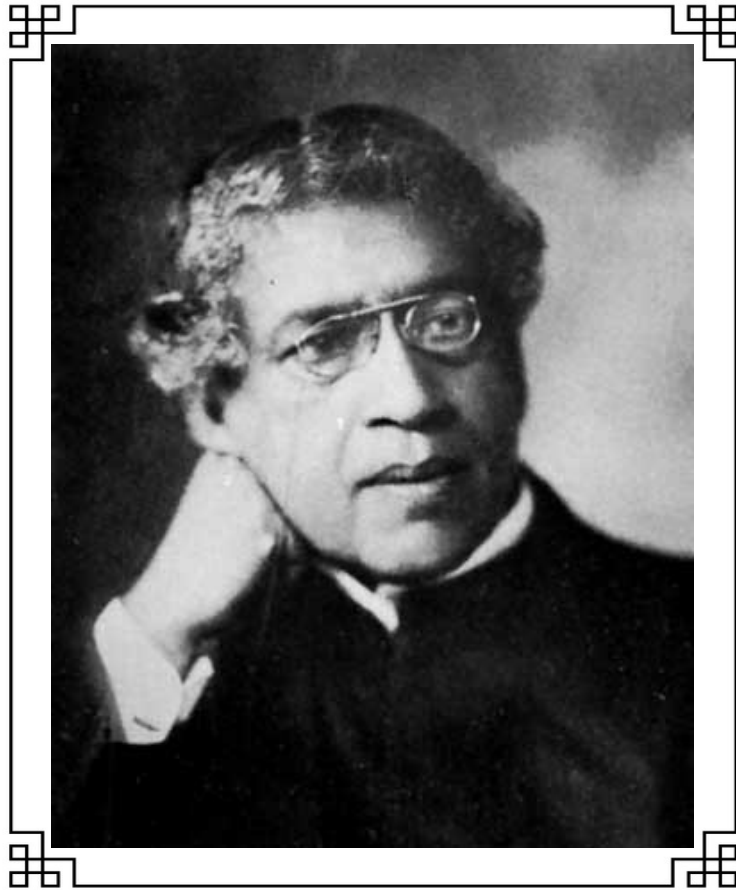
Placement and higher studies



Result Analysis







They who behold the One, in all the
changing manifoldness of the
universe, unto them belongs the
eternal truth, unto none else, unto
none else .

- Sri Jagadish Chandra Bose -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Food Technology

ANNUAL REPORT

2019-20

Name of the Department: Food Technology

Vision of the department

The vision of the Department is to be a nationally and internationally recognized school of Food Technology by producing competent food technologist with respect to teaching, research, entrepreneurship and extension endeavors leading towards sustainable growth of the state, nation and service of the society and humankind.

Mission of the department

- * To achieve its own vision the Department of Food Technology is committed to
- * Provide high quality teaching to foster international standard graduate
- * Motivate the students of the Department to face challenges in their professions- industrial, academic, R&D activities
- * Generate knowledge through research as well as through interaction with industries and academia so that the students of the Department can take part in the interdisciplinary fields.
- * Inspired the students of the Department to the sustainable development of the nation and society through professionalism, education, research, public and social service.

PEO

- * To develop the ability to apply knowledge of Mathematics, Science, Computing and basic engineering by including the ability to design, analyze and interpret data.
- * To develop ability to use modern techniques, skills and engineering tools necessary in Food Technology in global and social context.
- * To create the knowledge of professional and ethical responsibilities.
- * To make the ability to communicate effectively to function in multi-disciplinary team.
- * To develop a knowledge of contemporary issues and ability to engage in life-long learning.

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- * **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

- * Graduates will be able to apply the knowledge of mathematics, science and basic engineering and computing in the field of food technology.
- * Graduates will be able to use modern techniques, skills and engineering tools necessary in food technology in global and social context.
- * Graduates will be able to communicate effectively to function in multidisciplinary team.

Brief overview of the department

Food Technology is the application of food science to the selection, preservation, processing, packaging and distribution of food. This is used to ensure that a safe, nutritious and wholesome food is made available to the consumer. Food Technologists study the physical, microbiological, and chemical composition of food as well as to develop food process technologies, its characterizations, preservation, packaging and storage of food, according to industry and government specifications and regulations.

The Department has the following laboratories:

Food Processing Lab, Food Analysis and Quality Control Lab, Food Microbiology and Microbial Technology Lab, Food Chemistry Lab, Unit Operation of Chemical Engineering Lab, Sophisticated R&D Lab.

All are studded with various sophisticated equipment like:

Freeze Drier, Cold Centrifuge, Deep Freezer (-23OC), UV-Vis Spectrophotometer, Spectroflurimeter (Perkin Elmer), Gerber Centrifuge, Brookfield Viscometer, Laminar Air Flow Table, BOD Shaker Incubator, Autoclave, Tray Drier, Plate Freezer, Ice cream Churner, Pulper, Fluidized Bed Drier, Spray Drier, Baking Oven,

Canning Unit, Homogenizer, Rotary Vacuum Evaporator, Single Screw Extruder, Jaw Crusher and Ball Mill, Heat Exchanger, Packed Bed Distillation Column, Steam Jacketed Kettle, Reynold's Apparatus, Digital Microscope etc.

HOD Message

It is really a matter of great pleasure to welcome you in the Department of Food Technology of Guru Nanak Institute of Technology has sustainably emerged as one of the premier educational institute in the field of Food Technology in West Bengal. The department has NBA accreditation since 2014. Since its inception in 2006 with an intake of 60 students the department has undergone continual improvement by organizing several EDP, Seminar, conference, workshop, and symposium. We offer a blended learning management system to bring together the progressive sustainable management & technical skills of the industry along with academic expertise of highly experienced and Ph. D. faculty members to disseminate knowledge on the various newer advances and developments in the Food Processing Sector and to emphasize on the different Processing Technologies and its relevance not only to the state level but also to the national and international level. Furthermore students of the department published research papers in different reputed National and International journals, presented Research paper in National/International seminar/ conferences, workshop, and symposium with the guidance of faculty members and awarded also in different oral/poster/ quiz/ Competition held in IIT-KGP, JU, BHU, FOSET, etc.

Dr. Kakali Bandhpadhyay
HOD
Food Technology

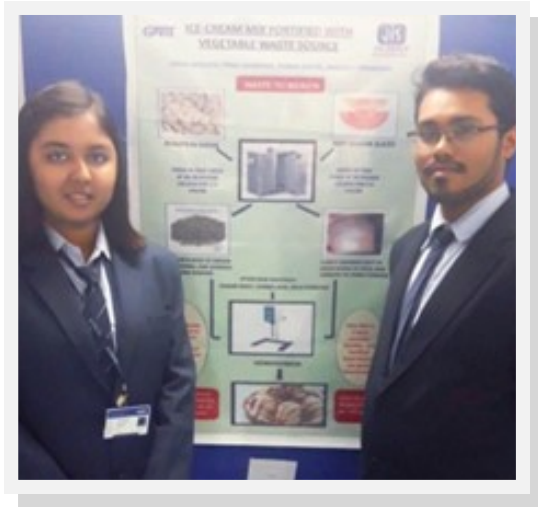
Departmental achievements

Student's achievements

Sl. no.	Name of Student	Date	Award
1	Prithweejit Bhattacharyya & Khushi Maheswari	July, 2019	Won 1 st Prize in "Open Source GIS Map Making" at Asian Institute of Technology, Bangkok
2	Prithweejit Bhattacharyya & Khushi Maheswari	July, 2019	Won 2 nd Prize in "Campus Information System by Crowd Sourcing using Geo App" at Asian Institute of Technology, Bangkok
3	Prithweejit Bhattacharyya & Khushi Maheswari	July, 2019	Won 2 nd Prize in "Presentation on Climate Change Adaption and Mitigation" at Asian Institute of Technology, Bangkok
4	Urmi Sarkar	October, 2019	Secured 1 st Position in B.Tech., 2019 in MAKAUT.
5	Avisikta Ghosh Dastidar, Quazi Farheen Zaman, Arnab Saha, Swagatalakshmi Chakraborty (Guided by Ms. Rosalin Nath)	October, 2019	Selected in the Chatra Vishwakarma Award for the upcoming Regional Round organized by AICTE.
6	Saurjaynee Biswas, Deborima Bera, Nibedita Chowdhury (Guided by Dr. Kakali Bandyopadhyay)	October, 2019	Selected in the Chatra Vishwakarma Award 2019 for the upcoming Regional Round organized by AICTE.
7	Ishon Mallick, Piyali Bannerjee (Guided by Ms. Dolanchapa Sikdar)	14.11.2019	Secured 1 st Prize in Technical Poster Presentation in CSI-West Bengal State Student Convention 2K19, organized by CSI Student Chapter, JIS College of Engineering.
8	Ishon Mollick, Anindhya Dhar, Maria Mukherjee, Nibedita Chowdhury, Arnab Saha, Abhisikta Ghosh Dostidar, Swagatalakshmi Chakraborty, Anirzeet Pramanik, Saptarshi Das	18 th , 19 th , 21 st December , 2019	9 students from 2 nd and 3 rd year were selected as Food Safety Supervisors of "Anganwadi Center" at Rajarhat area. It was an initiative organized in association with CII-FACE under "Food Safety Training Program on Hygiene and Sanitary Practices for Anganwadi Center Workers".

Department of Food Technology

Sl. no.	Name of Student	Date	Award
9	Akash Biswas and Sutirtha Sil (Guided by Ms. Rosalin Nath)	19.01.2020	1 st prize in KONNAGAR SCIENCE FAIR 2020 for project display
10	Pulak Deb, Riya Kumari Gope, Ragini Chauhan and Shivangi Singh (Guided by Ms. Shairee Ganguly)	19.01.2020	3 rd Prize prize in KONNAGAR SCIENCE FAIR 2020 for project display
11	Mariya Mukherjee, Sukriti Dutta ,Soumily Misra, Sourini Sen (Guided by Dr. Anju Paul)	13.03.2020	Secured the 3 rd position in poster presentation session on the topic "Fruit Fortified Shrikhand" in National Seminar on Traditional Indian Dairy Products: Prospects of Commercialization organized by NAHEP- Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.
12	Anindya Dhar, Poulami Chakraborty and Poulami Das	20 th to 22 nd March, 2020	Secured 1 st position in Poster Presentation, by presenting the poster titled "Food Terrorism." on Prakriti 2020 - Agri and Food Innovation Fest",
13	Ishon Mollick and Piyali Banerjee (Guided by Ms. Dolanchapa Sikdar)	20 th to 22 nd March, 2020	Secured 2 nd position in Poster Presentation, by presenting the poster titled "Fortified Ice -Cream Mix as a Potential Functional Food", Agri and Food Innovation Fest",
14	Ms. Quazi Farheen Zaman	20 th to 22 nd March, 2020	Secured the 2 nd position in the category of "Selfie with Nature". Prakriti 2020 - Agri and Food Innovation Fest"
15	Saurjaynee Biswas, Deborima Bera, Nibedita Chowdhury, Ishon Mollick and Piyali Banerjee (Guided by Dr. Kakali Bandyopadhyay)	17.04.2020	Team Food_Healers from Dept. of Food Technology got selected in Smart India Hackathon 2020 in Hardware Edition.
16	Mr. Anindya Dhar	15.05.2020	3 rd position for poster making in "National Poster Making & Essay Writing Competition" on Food Safety and Hygiene During Covid-19 Pandemic, jointly organized by Dept. of Dairy Science & Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi & IDA- Eastern UP chapter.



Secured 1st Prize in Technical Poster Presentation in **CSI-West Bengal State Student Convention 2K19**, organized by CSI Student Chapter, JIS College of Engineering.



Secured 1st and 3rd prize in **KONNAGAR SCIENCE FAIR 2020** for project display.



Selected in the **Chatra Vishwakarma Award** for the upcoming **Regional Round** organized by AICTE.

9 students from 2nd and 3rd year were selected as **Food Safety Supervisors** of “**Anganwadi Center**” at **Rajarhat** area. It was an initiative organized in association with **CII-FACE** under “**Food Safety Training Program on Hygiene and Sanitary Practices for Anganwadi Center Workers**”.





Secured the 3rd position in poster presentation session on the topic "Fruit Fortified Shrikhand" in National Seminar on Traditional Indian Dairy Products: Prospects of Commercialization organized by NAHEP- Innovation Grant, Faculty of Dairy Technology, W.B.U.A.F.S.

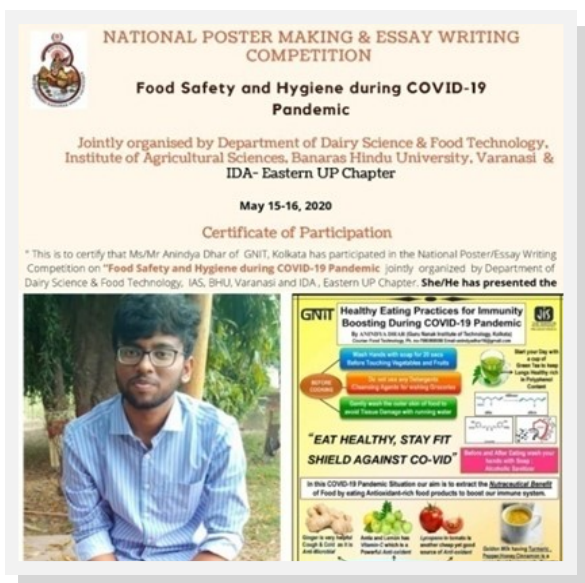
Team Food_Healers from Dept. of Food Technology got selected in Smart India Hackathon 2020 in Hardware Edition

Result of "Prakriti 2020- Agri and Food innovation Fest", organized by IIT Kharagpur.

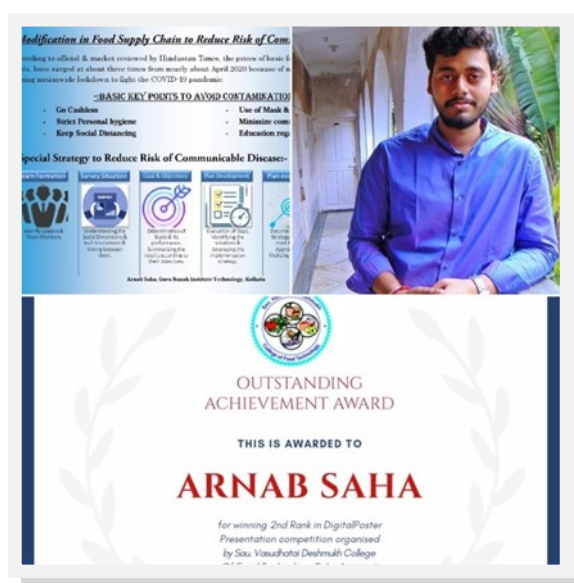
Secured 1st and 2nd position in Poster Presentation.

Secured the 2nd position in the category of "Selfie with Nature".





Mr. Anindya Dhar secured 3rd position for poster making in “National Poster Making & Essay Writing Competition” on Food Safety and Hygiene During Covid-19 Pandemic, jointly organized by Dept. of Dairy Science & Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi & IDA- Eastern UP chapter.



Mr. Arnab Saha secured 2nd prize in Digital Poster Presentation Competition organized by Sau. Vasudhatai Deshmukh College of Food Technology Pala, Amaravati

Faculty's achievements

Name of Faculty	Date	Awards/Achievement
Dr. Kakali Bandyopadhyay	July 2019	Selected as Academic Auditor of JIS Group
Ms. Shairee Ganguly	27.07.2020	Selected as Auditor for Quality of Food, Security, Infrastructure, Process standardization at IRCTC Base Kitchen at Howrah Station, organized by CII Jubilant Bhartia Food and Agriculture Centre of Excellence (FACE) under Surakshit Khadya Abhiyan , National Awareness Campaign on 'Safe Food for All'.
Mr. Amit Barman	20.09.2019	Got Kriti Award 2019 (Principal Choice) for outstanding performance in Purchase Committee of GNIT

Department of Food Technology

Name of Faculty	Date	Awards/Achievement
Dr. Kakali Bandyopadhyay	October, 2019	Awarded for making new forays in the area of research & development while taking along the students as you embark on the journey to achieve yet another milestone of excellence for the JIS Group
Dr. Anju Paul	October, 2019	Awarded for making new forays in the area of research & development while taking along the students as you embark on the journey to achieve yet another milestone of excellence for the JIS Group
Ms. Shairee Ganguly	October, 2019	Awarded for making new forays in the area of research & development while taking along the students as you embark on the journey to achieve yet another milestone of excellence for the JIS Group
Dr. Kakali Bandyopadhyay	October, 2019	As mentor, selected in the Chatra Vishwakarma Award for the upcoming Regional Round, organized by AICTE.
Ms. Rosalin Nath	October, 2019	As mentor, selected in the Chatra Vishwakarma Award for the upcoming Regional Round, organized by AICTE.
Ms. Dolanchapa Sikdar	14.11.2019	As mentor secured 1 st Prize in Technical Poster Presentation in CSI-West Bengal State Student Convention 2K19, organized by CSI Student Chapter, JIS College of Engineering
Dr. Kakali Bandyopadhyay	13 th -14 th December, 2019	Invited as Session Chair/Moderator in International Conference on the topic Industry Interactive Innovation in Science, Engineering and Technology(I3SET2K19), Organized by JISCE-Kalyani
Ms. Shairee Ganguly	22.01.2020	Registered in the Ph.D programme in Oil Technology under the Department of Chemical Technology, University of Calcutta
Dr. Kakali Bandyopadhyay	22.1.2020	Selected as Ph.D Guide in Oil Technology under the Department of Chemical Technology, University of Calcutta
Dr. Kakali Bandyopadhyay	19.12.2019	Invited as Keynote Speaker at "Workshop on Pradhan Kisan Sampada Yojana", Organized by Ministry of Food Processing Industries, Govt of India in collaboration with the Indian Chamber of commerce.

Department of Food Technology

Name of Faculty	Date	Awards/Achievement
Dr. Kakali Bandyopadhyay	22.01.2020	Invited as Keynote Speaker in Workshop on “Packaging of Foods and Handicraft” organized by Indian Institute Of Packaging, Kolkata Centre in Association with Government of India, Ministry of MSME(SME Section)
Dr. Kakali Bandyopadhyay	19.02.2020	Invited as Guest Faculty in the Seven Days Capacity Building Training Programme For SC/ST Aspiring / Budding And Existing Entrepreneurs under NSSH Scheme on “Packaging of Fresh and Processed
Dr. Kakali Bandyopadhyay	05.03.2020	Was invited to address the Special Session as Keynote Speaker on “Food Processing: New Technology & Up gradation”. Organized by The Indian Chamber of Commerce in association with Ministry of Food Processing Industries, Govt. of India.
Dr. Anju Paul	28.02.2020	Act as a Judge in Round Table Discussion and Poster Presentation on Sustainable Development on National Science Day Organized By GNIT.
Dr. Kakali Bandyopadhyay	17.04.2020	As a mentor got selected in Smart India Hackathon 2020, Hardware edition.
Dr. Kakali Bandyopadhyay	12-18 th May, 2020	Act as Evaluator for JISCE Integrated Hackathon



Dr. Kakali Bandyopadhyay was Invited as Guest Faculty in the Seven Days Capacity Building Training Programme For SC/ST Aspiring / Budding And Existing Entrepreneurs under NSSH Scheme on “Packaging of Fresh and Processed Foods” at Indian Institute of Packaging.

Department of Food Technology



Dr. Kakali Bandyopadhyay, invited as Keynote Speaker at “Workshop on Pradhan Kisan Sampada Yojana”, Organized by Ministry of Food Processing Industries, Govt of India in collaboration with the Indian Chamber of commerce.



Ms. Shairee Ganguly was selected as Auditor for Quality of Food, Security, Infrastructure, Process standardization at IRCTC Base Kitchen at Howrah Station, organized by CII Jubilant Bhartia Food and Agriculture Centre of Excellence (FACE) under Surakshit Khadya Abhiyan , National Awareness Campaign on ‘Safe Food for All’.



Dr. Kakali Bandyopadhyay was invited to address the Special Session as Keynote Speaker on “Food Processing: New Technology & Up gradation”. Organized by The Indian Chamber of Commerce in association with Ministry of Food Processing Industries, Govt. of India.

Industry-Visit:



Industry Visit
Bhagwati Foods Private Limited
(Franchise of Parle Biscuit) on
08.11.2019.

Industry Visit
Dream Bake Pvt. Ltd. On
10.01.2020

Sl, No.	Name of Dept	Name of the Industry-Mentor With Designation	Date of Visit
1.	Department of Food Technology	Seminar on "Career Scope in Food Industries for Food Technologist." By Dr. Deborshi De (Vedaant Organic Research Foundation)	11.07.2019
2.		Industrial seminar on "A new era in Food Packaging Technology" by Mr. Bidhan Das (Deputy Director of IIP)	31.08.2019
3.		Seminar on "Food Safety Management" by Mr. Mr. Aviekal Kakkar (General Manager of Parle Agro Ltd.)	31.08.2019
4.		Industrial Seminar on" Labeling requirements for new packaged food including proprietary food products " by Dr. Deborshi De(Vedaant Organic Research Foundation)	09.01.2020
5.		Seminar on "Allergen and Food Safety" by Ms. Sumana Bhattacharayya (CEO of OM Consultancy)	07.03.2020

Department of Food Technology



Industrial seminar on “A new era in Food Packaging Technology” by Mr. Bidhan Das (Deputy Director of IIP).



Seminar on “Food Safety Management” by Mr. Aviekal Kakkar (General Manager of Parle Agro Ltd.)



Industrial Seminar on “Labeling requirements for new packaged food including proprietary food products” by Dr. Deborshi De (Vedaant Organic Research Foundation)



Seminar on “Allergen and Food Safety” by Ms. Sumana Bhattacharayya (CEO of OM Consultancy)

Seminar/Workshop/Invited Talk Organized

Sl no	Engineering Events	Venue	Date	Speaker	Topic/ Event
1	Seminar	Seminar Hall, GNIT	12.07.2019	Mr. Soumyadeb Bhattacharyya, Proprietor of "K for Kakes"	Entrepreneur Development Program
2	Invited Talk	Seminar Hall, GNIT	08.08.2020	Mr. Soumyadeb Bhattacharyya, Proprietor of "K for Kakes"	Alumni Entrepreneur Meet
3.	Invited Talk	Seminar Hall, GNIT	17.09.2019	Mr. Ushnil Dutta (Dairy Technologist, Almarai, Saudi Arabia)	Alumni Meet
4.	Workshop	Seminar Hall, GNIT	17.12.2019	Dr. Indrani Ghosh (Strategic Advisor Food Safety and Quality CII-Jubilant Bharti Food and Agriculture Center of Excellence.)	Workshop on Food Safety Training Program on Hygiene and Sanitary Practice for Anganwadi Center Worker
5.	Invited Talk	Seminar Hall, GNIT	27.02.2020	Mr. Tanmoy Bose (Application Architect-IBM, Switzerland)	Industry - Alumni meet : " How to prosper in interdisciplinary field being a Food Technologist " - An interactive session
6.	Alumni Talk	Online portal of Whiteboard Myperfectice	28.03.2020	Mr. Debjit Ghosh (Food Safety Manager, MILEI GMBH, Moringa Group, Germany)	International Webinar: Food Safety and Quality Assurance

Department of Food Technology

Sl no	Engineering Events	Venue	Date	Speaker	Topic/ Event
7.	Alumni Talk	Online portal of Whiteboard Myperfectice	04.04.2020	Mr. Debjit Ghosh (Food Safety Manager, MILEI GMBH, Moringa Group, Germany)	Webinar: HACCP: Hazard Analysis and Critical Control Point
8.	Webinar	Online portal of Whiteboard Myperfectice	04.04.2020	Mr. Ujjal Datta, (Senior Manager, Corporate Quality Assurance, Emami Ltd.)	Webinar: Industry Mentorship & Motivation
9.	Webinar	Online portal of Whiteboard Myperfectice	08.04.2020	Mr. Debayan Bhattacharyya, (Senior Officer, Quality Assurance, Dabur India Ltd.)	Webinar: An Exposure of 'MFG &PKG' process, 'Legal Compliance & Certifications' aspects of food industries
10.	Webinar	Online portal of Whiteboard Myperfectice	11.04.2020	Mr. Sanjay Kumar Rout (Factory Manager, Aakriti Super Snacks Ltd.)	Webinar: Food Technology & Career
11.	Webinar	Online portal of Whiteboard Myperfectice	13.04.2020	Mr. Sunil Kajaria (CE (banana) & COO (dairy), KEVENTER Agro ltd. "Executive Committee member, CMA")	Webinar: An exposure of Dairy, Banana, & FMCG industry
12.	Alumni Talk	Online portal of Whiteboard Myperfectice	15.04.2020	Mr. Arka Roy Chowdhury (Krishi Proyukti Sahayak, Govt. of West Bengal.)	Alumni Meet: Minimally Processed Foods,
13	Workshop	Online portal of Whiteboard Myperfectice	22.04.2020	Mr. Thammaiah Thelapanda, (TUV SUD South Asia)	Training-cum-Workshop On Standards Applicable for the Food Industry

Department of Food Technology

Sl no	Engineering Events	Venue	Date	Speaker	Topic/ Event
14	Workshop	Online portal of Whiteboard Myperfectice	25.04.2020	Ms. Minu Kundu (Food Safety Officer, Health and Family Welfare, Govt. Of West Bengal)	Workshop on Food Safety and Hygiene : An Interactive Session.
15	Webinar	Online portal of Whiteboard Myperfectice	29.04.2020	Mr. Anindya Dhar & Mr. Ishon Mallick (students of 2 nd year & Under guidance of Dr. Kakali Bandyopadhyay)	Webinar: Combating COVID-19 by boosting up self immunity using Food Technology
16	Webinar	Online portal of Zoom	09.05.2020	Prof Prabal Kr Sen (Retired Professor of Economics and Founder Chairperson of Entrepreneurship Development Centre (EDC), XLRI-Jamshedpur Currently Adjunct Professor, IIM Amritsar.)	Webinar: Entrepreneurship as an Economic Endeavour
17	Webinar	Online portal of Whiteboard Myperfectice	13.05.2020	Mr. Debojyoti Dey, PhD. Scholar, IIT Kanpur	Webinar on "Machine Learning: When and How to use, A Basic Understanding",
18	Webinar	Online portal of Whiteboard Myperfectice	25.05.2020	Dr. Debashree Bandyopadhyay, Professor, Dept. of Biological Sciences BITS Pilani, Hyderabad	Webinar on "Protein Conformation in Elucidating Bimolecular Structure, Function and Relationship"

Department of Food Technology

Sl no	Engineering Events	Venue	Date	Speaker	Topic/ Event
19	Webinar	Online portal of Whiteboard Myperfectice	27.05.2020	Ms. Ishita Auddy, PhD. Scholar (Food Process Engineering), Indian Institute of Food Processing Technology (IIFPT), Thanjavur (MOFPI), Govt. of India	Webinar on "Biosensor: An Innovative Approach in Food Processing"
20	Webinar	Online portal of Whiteboard Myperfectice	06.06.2020	Mr. Siddhart Pramanik, Gym Trainer, Royal Calcutta Turf Club, Kolkata	Webinar on "Health and Fitness"
21	Webinar	Online portal of Whiteboard Myperfectice	13.06.2020	Mr. Priyank Harish Shende, Manager, ERO Securities and Exchange Board of India. Mr. Shrikant Koundinya , AVP - Training & Education, Multi Commodity Exchange of India Limited Mr. Vibhor Tandon, AVP - Business Development (East) Multi Commodity Exchange of India Limited	Webinar on "Commodities as an Asset Class"
22.	Workshop	Online portal of Whiteboard Myperfectice	23.06.2020	Dr. Kakali Bandyopadhyay (HOD , FT) , Mr. Anindya Dhar & Mr. Ishon Mallick (2 nd Year students, FT)	Workshop on "No to Food Adulteration: Enforcement of Food Safety and Security"

Department of Food Technology



Seminar by Mr. Soumyadeb Bhattacharyya, Proprietor of "K for Kakes".



Industry Alumni Meet by distinguished alumni Mr. Tanmoy Bose.



Workshop on Food Safety Training Program on Hygiene and Sanitary Practice

A poster for a webinar. The text reads: "A WEBINAR ON 'AN EXPOSURE OF DAIRY, BANANA, & FMCG INDUSTRY' ORGANISED BY IE STUDENTS CHAPTER DEPARTMENT OF FOOD TECHNOLOGY (NBA ACCREDITED) GURU NANAK INSTITUTE OF TECHNOLOGY IN ASSOCIATION WITH CALCUTTA MANAGEMENT ASSOCIATION (CMA) PRESENTS 'E-INTERACTION' WITH ON 13TH APRIL FROM 4 P.M. TO 5 P.M. MR. SUNIL KAJARIA CE (BANANA) & COO (DAIRY), KEVENTER AGRO LTD. 'EXECUTIVE COMMITTEE MEMBER, CMA'". Logos for GNIT, JIS, CMA, and others are visible at the top.

Webinar by Mr. Sunil Kajaria (CE (banana) & COO (dairy), KEVENTER Agro Ltd. "Executive Committee member, CMA")

A poster for a webinar. The text reads: "WEBINAR ON 'PROTEIN CONFORMATION IN ELUCIDATING BIOMOLECULAR STRUCTURE, FUNCTION & RELATIONSHIP' ORGANISED BY IE STUDENTS CHAPTER DEPARTMENT OF FOOD TECHNOLOGY (NBA ACCREDITED) GURU NANAK INSTITUTE OF TECHNOLOGY OR 25TH MAY, FROM 4 P.M. TO 5 P.M. SPEAKER: DR. DEBASHREE BANDYOPADHYAY PROFESSOR, DEPT. OF BIOLOGICAL SCIENCES". The poster includes a screenshot of a presentation slide about protein-ligand conformation and logos for GNIT, JIS, and others.

Webinar on "Protein Conformation in Elucidating Biomolecular Structure, Function and Relationship" by Dr. Debashree Bandyopadhyay, Professor, Dept. of Biological Sciences BITS Pilani,

Department of Food Technology

Seminar/Workshop/Invited Talk (Participated)

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
1	Ms. Shairee Ganguly (Asst. Prof., FT)	Workshop on "Assesment of the quality of food security, infrastructure, processs,standardization at IRCTC base kitchen at Howrah station "	24.07.2019	CII in Collaboration with FSSAI, G
2	Ms. Monika Paul (JTA, FT)	Workshop on "FOSTAC Training"	07.08.2019	MAKUT
3	MS. Rosalin Nath (Asst. Prof., FT),	Workshop on "FOSTAC Training"	19.08.2019	Self
4	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), & Ms. Shairee Ganguly (Asst. Prof., FT)	World Food Day (Foundation Day of FAO & FSSAI's theme "Healthy diets for a zero hunger world"	16.10.2019	CII
5	Dr. Anju Paul (Asst. Prof., FT), & Ms Dolanchapa Sikdar (Asst. Prof., FT)	MHRD Industry Academia Meet cum Exhibition	07.11.2019 & 08.11.2019	MHRD Govt. of india in collaboration with JIS university
6	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT),	International Conference of the topic "Industry Interactive Innovation in Science, Engineering and Technology"	13.12.2019 & 14.12.2019	JIS College of Engineering, Kalyani
7	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms Dolanchapa Sikdar (Asst. Prof., FT) &MS. Rosalin Nath (Asst. Prof., FT),	Workshop on "Pradhan Mantri Kisan Sampada Yojana"	19.12.2020	MOFPI Govt. Of India in collaboration with IIC
8	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), & Ms. Shairee Ganguly (Asst. Prof., FT)	STTP on, "Educational Technology in Engineering Teaching",	06.01.2020 - 11.01.2020	AICTE

Department of Food Technology

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
9	Dr. Anju Paul (Asst. Prof., FT),	Workshop on "Energy Conservation Efficient Boiler Operation and Maintenance"	18.01.2020	National Dairy Development Board Saltlake in collaboration with The Productivity Council Kolkata
10	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT)	Workshop on "Packaging of Foods and Handicraft"	22.01.2020	Indian Institute of Packaging, Kolkata Centre in association with Govt. of India, Ministry of MSME
11	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT)	Seven days capacity building training programme for SC/ST aspiring/budding and existing entrepreneurs under NSSH Scheme on "Packaging of fresh and processed foods"	19.02.2020	Indian Institute of Packaging, Kolkata Centre
12	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT)	Attend a guest speaker in a seminar on "Food processing: New technology and upgradation"	05.03.2020	MOFPI
13	Dr. Kakali Bandyopadhyay, (Associate Professor and Head, FT) & Mr. Saikat Mazumder, (Asst. Prof.)	"Innovation & Branding - A Case study of a leading B2B Brand from TATA STEEL"	09.04.2020	
14	Dr. Kakali Bandyopadhyay, (Associate Professor and Head, FT) & Mr. Saikat Mazumder, (Asst.	"Learn Lead and Link-up - Knowledge Comes Closer with Social Distancing"	10.04.2020	The Bengal Chamber of Commerce

Department of Food Technology

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
15	Ms. Rosalin Nath (Asst. Prof.)	Leadership talk with Dr. Vinay Sahasrabudde	16.04.2020	MHRD-IIC
16	Ms. Rosalin Nath (Asst. Prof.)	Attended twitter live session on 22nd April. Topic- Leadership talk with Padma Shri Vaidya Rajesh Kotecha, Secretary, Ayush Ministry	22.04.2020	IIC- MHR
17	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA)	Attend a Webinar on "Learning from Essentials"	23.04.2020	The Bengal Chamber of Commerce and Industr
18	Ms. Dolanchapa Sikdar (Asst. Prof.)	Attend a Webinar On Fine Tuning Research Planning Using Elsevier Tools: Scopus, Science, Direct & Mendeley	23.04.202	Elsevier
19	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Dr. Anju Paul (Asst. Prof.), Ms. Shairee Ganguly (Asst. Prof.), Mr. Saikat Majumdar (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof.), Mr. Amit Batman (JTA)	Attend a Webinar On Rebooting Management Teaching & Learning in Post COVID-19 Period	25.04.202	Globsyn Business School

Department of Food Technology

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
20	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA)	Webinar on Leadership in Turbulent Time - Be Inspire	26.04.202	CMA
21	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.) Ms. Dolanchapa Sikdar (Asst. Prof.), Mr. Saikat Majumdar (Asst. Prof.),	Online FDP on "Recent and Future Trends in Technology"	27.04.2020 - 02.05.2020	GNIT
22	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.)	Webinar on EDUCATION ROAD MAP FOR A NEW TOMORRO	29.04.2020	JIS College of Engineering
23	Ms. Rosalin Nath (Asst. Prof.)	IIC online session on "Role and Importance o Pre-Incubator, Incubators and Accelerators in HEI	29.04.2020	IIC
24	Ms. Rosalin Nath (Asst. Prof.)	leadership Webinar by Mr. Harshvardhan Neotia	29.04.2020	CMA

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
20	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA)	Webinar on Leadership in Turbulent Time - Be Inspire	26.04.202	CMA
21	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.) Ms. Dolanchapa Sikdar (Asst. Prof.), Mr. Saikat Majumdar (Asst. Prof.),	Online FDP on "Recent and Future Trends in Technology"	27.04.2020 - 02.05.2020	GNIT
22	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.)	Webinar on EDUCATION ROAD MAP FOR A NEW TOMORRO	29.04.2020	JIS College of Engineering
23	Ms. Rosalin Nath (Asst. Prof.)	IIC online session on "Role and Importance o Pre-Incubator, Incubators and Accelerators in HEI	29.04.2020	IIC
24	Ms. Rosalin Nath (Asst. Prof.)	leadership Webinar by Mr. Harshvardhan Neotia	29.04.2020	CMA

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
25	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.)	Webinar Digital Education - The New Frontier	30.04.2020	CMA
26	Ms. Rosalin Nath (Asst. Prof.)	IIC online session on "Hangout with Emerging Innovator & Entrepreneurs Supported through MIC & AICTE	30.04.2020	IIC
27	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA) Mr. Shubhobrata Saha (JTA, FT)	Webinar on Leadership in Turbulent Time - Be Inspire	01.05.2020	CMA
28	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Online Panel Discussion on "Business Enablers for tomorrow surviving Covid-19".	02.05.2020	BCC&I.
29	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on Leadership in Turbulent Times: Applying Past Leadership Lessons to the Pandemic Crisis."	07.05.2020	CMA

Department of Food Technology

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
30	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on "Immunity, Nutrition and Self Care in the Covid-19 Era".	08.05.2020	CMA
31	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on" Entrepreneurship as an Economic Endeavour".	09.05.2020	CMA
32	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on Leadership in Turbulent Times: "Post-Covid State of Economy with Special Reference to the Banking Sector"	10.05.2020	CMA
33	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on "Redefining our Life Post Covid-19"	12.05.2020	JIS University
34	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on Leadership in Turbulent Times: "An interactive Session with Mr. Ajoy Chawla"	13.05.2020	CMA

Department of Food Technology

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
35	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on Leadership in Turbulent Times: An interactive Session with Mr. Vikrant Shrotriya"	15.05.2020	CMA
36	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.),	Online Panel Discussion on : " Leading Through Covid-19 Digital Life Now and Beyond"	16.05.2020	ASSOCHAM and NI
37	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.),	Webinar on " International Perspective on social and Behavioral Approach of Business"	19.05.2020	BCC&I
38	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on" Food Safety Guidelines for Bulk Food Manufacturing"	26.05.2020	FSSAI

Department of Food Technology

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
39	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on " Education for doing Business"	28.05.2020	BCC&I
40	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.),	Webinar on " Bio - Entrepreneurship from Theory to a Practical Success"	29.05.2020	Sathyabama Institute of Science and Technology
41	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Ms. Shairee Ganguly (Asst. Prof.), Ms. Dolanchapa Sikdar (Asst. Prof), Ms. Rosalin Nath (Asst. Prof.) Mr. Saikat Majumdar (Asst. Prof.), Mr. Amit Batman (JTA), Ms. Monika Paul (JTA), Shubhobrata Saha (JTA)	Webinar on Leadership in Turbulent Times:" On changing Consumer Behaviour in the Times of Pandemic"	31.05.2020	CMA
42	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), Mr. Saikat Mazumder, (Asst. Prof),	Leadership Talk with Shri R Subrahmanyam, IAS (Secretary Ministry of Social Justice & Empowerment)	13.06.2020	MHRD's Innovation Cell
43	Dr. Kakali Bandyopadhyay, (Associate Professor and Head, FT),	Leadership Talk With Dr. Nilesh N Oak, Expert (Indian Civilization & History)	30.05.2020	MHRD's Innovation Cell

Department of Food Technology

Sl. No	Name, Designation & Department	Seminar/ Workshop/ Conference	Date	Sponsored by
44	Dr. Kakali Bandyopadhyay (Associate Professor and Head, FT), & Ms. Shairee Ganguly (Asst. Prof., FT)	AFDP on "Innovative agro-food processing technologies for entrepreneurship development", by Agri. & Food Business Incubator,	30.05.2020 to 04.06.2020	Anand Agricultural University, Anand, Gujarat
46	Dr. Kakali Bandyopadhyay, (Associate Professor and Head, FT),, Mr. Saikat Mazumder, (Asst. Prof, FT),	Webinar on "Nutrition & Diet Perspective: COVID 19 Pandemic Scenario"	06.06.2020	IQAC, Asansol Girls' College
47	Dr. Kakali Bandyopadhyay, (Associate Professor and Head, FT), Dr. Anju Paul (Asst. Prof, FT),, Ms. Shairee Ganguly, (Asst. Prof, FT), Ms. Dolanchapa Sikdar, (Asst. Prof, FT), Mr. Saikat Mazumder, (Asst. Prof, FT), Ms. Monika Paul, (JTA, FT)	Short term Training Course on "Trends & Prospects in Biorefinery",	10.06.2020 to 14.06.2020	Department of Bio Technology, Dr. B.R.Ambedkar National Institute of Technology
48	Dr. Kakali Bandyopadhyay, (Associate Professor and Head, FT), Dr. Anju Paul (Asst. Prof, FT),, Ms. Shairee Ganguly, (Asst. Prof, FT), Ms. Dolanchapa Sikdar, (Asst. Prof, FT), Mr. Saikat Mazumder, (Asst. Prof, FT), Ms. Monika Paul, (JTA, FT)	Webinar on "Data science and applications : present and future"	30.06.2020	MAKAU T,WB

Department of Food Technology

- * Faculty Development Program On Recent Advancement in Food Processing and Preservation., Organized By Department of Food Technology From 30.12.19 to 3.1.20.

<p>Dr. Sisir Kumar Das, Dean, GNIT</p> <p>Chairman: Dr. Santanu Kumar Sen, Principal, GNIT</p> <p>Convener: Dr. Kakali Bandyopadhyay, HOD, FT</p> <p>Coordinator: Dr. Anju Paul, Asst. Prof., FT</p> <p>Organizing Committee: Ms. Dolanchapa Sikdar, Asst. Prof., FT Ms. Rosalin Nath, Asst. Prof., FT Mr. Goutam Kr. Das, JTA, FT Mr. Amit Barman, JTA, FT Ms. Monika Paul, JTA, FT Mr. Shubhobrata Saha, JTA, FT Ms. Khushi Maheshwari, 3rd Year, FT Mr. Amit Saha, 3rd Year, FT Mr. Debadri Bhowmick, 3rd Year, FT Mr. Rajat Kanti Modak, 3rd Year, FT Ms. Ankita Bishnu, 3rd Year, FT Ms. Pallabi Pal, 3rd Year, FT</p> <p>Contacts: Dr. Anju Paul, Asst. Prof., FT Asst. Professor, Dept. of FT, GNIT Mobile: (+91) 9038659358</p> <p>Ms. Neha Das 3RD Year FT Student Email ID: nchad1997@gmail.com Mobile: (+91) 7686821930</p>	 <p>ONE WEEK FDP</p> <p>ON</p> <p>Recent Advancement in</p> <p>Food Processing and Preservation.</p> <p>30.12.19 to 3.1.20 ---Organized by--- DEPARTMENT OF FOOD TECHNOLOGY GURUNANAK INSTITUTE OF TECHNOLOGY</p>
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<p>Preface: India has evolved from a food-scarce to a food-surplus nation during the last decade and the ever-growing trade in the production of food commodities indicates that the industry is on track in terms of growth and profitability. The Food Processing sector is considering as a sunrise sector and is vital to India's development, primarily due to the linkages and synergies it promotes between the two pillars of our economy - industry and agriculture. The Food processing sector engages approximately 1.85 million people in around 39,748 registered units with fixed capital of \$ 32.75 billion and aggregate output of around \$ 158.69 billion.</p> <p>Yet in India the food processing sector suffers from several bottlenecks leading to an estimated wastage of 25-30 percent of agriculture produce. Realizing the need for improving capacity of the food processing industry, there is urgent need of to use some of novel processing and preservation technologies that may result in economical and improved quality products. Therefore, this Faculty Development Program covers novel and advance aspects of food processing and preservation methods and techniques that can contribute to the development of value-added food products. In addition, the FDP features imperative discussions of emerging technologies in the field of food processing and preservation and their effects on quality and safety of a wide array of foods coupled with consumer demand for healthy and nutritious food.</p>	<p style="text-align: center;">Important Dates</p> <p>Last date of receiving duly filled in Registration form: 28.12.19.</p> <ul style="list-style-type: none"> • Workshop Date: 30.12.19 to 3.1.20 • Venue: Seminar Hall, GNIT <p style="text-align: center;">Topic for Workshop</p> <ul style="list-style-type: none"> • Food processing technology • Food preservation technology • Food quality and assurance • Food engineering • Food and nutritional security • Innovations in food processing • Advance food preservation techniques <p style="text-align: center;">Resource Person</p> <ol style="list-style-type: none"> 1. Dr. Kakali Bandyopadhyay, HOD, FT 2. Dr. Anju Paul, Asst. Prof., FT 3. Mr. Arka Roy Chowdhury, Asst. Prof., FT 4. Ms. Shairee Ganguly, Asst. Prof., FT
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Department of Food Technology

- * Faculty Development Program On Novel Technologies for Food Processing and Shelf-Life Extension, Organized By Department of Food Technology From 29.6.20 to 3.7.20.


Dr. Sisir Kumar Das, Dean, GNIT

Chairman:
Dr. Santanu Kumar Sen, Principal, GNIT

Convener:
Mr. Arka Roy Chowdhury, Asst. Prof, FT

Coordinator:
Mr. Anupam Ghosh, Asst. Prof, FT

Organizing Committee:
Dr. Kakali Bandyopadhyay, HOD, FT
Dr. Anju Paul, Asst. Prof, FT
Ms. Shairee Ganguly, Asst. Prof, FT
Ms. Ipsita Sen, Asst. Prof, FT
Mr. Goutam Kr. Das, JTA, FT
Mr. Amit Barman, JTA, FT
Ms. Monika Paul, JTA, FT
Mr. Shubhobrata Saha, JTA, FT



**ONE WEEK FDP
ON
Novel Technologies for Food
Processing and
Shelf-Life Extension
On
29.6.20 to 3.7.20**

**---Organized by---
DEPARTMENT OF FOOD TECHNOLOGY**

subsequent stages so that the pathogens and toxic components present in food are destroyed and deactivated making the food safer and hygienic. It is the capability of the food processing sector to develop novel food processing and preservation technologies to manufacture and preserve food in an effective manner with a view to enhance their shelf life, improve quality as well as make them functionally more useful.

There is a large growing demand for novel food products which not only provide health & nutrition benefits and convenience to the consumers but also offer immense economic promise to the food processing industry and the farmers. This course "Novel Technologies for Food Processing and Shelf Life Extension" deals about the recent and emerging engineering and technological innovations for novel and convenience food products manufacturing and shelf life extension. This course will play a pivotal role in pursuing research & development and will enable idea generation for the commercial manufacture of such products which ultimately lead our country to an international platform.

Workshop Date: 29th June 2020
Venue: Seminar Hall, GNIT

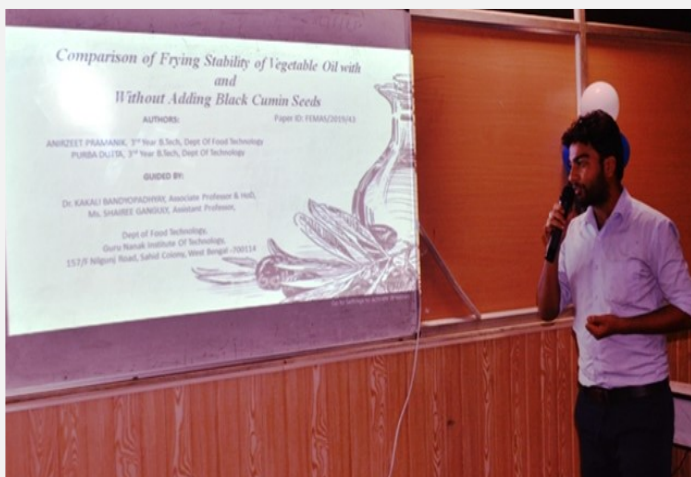
Topic for Seminar

- Introduction to food processing, preservation and quality
- Chemical changes in food during processing
- High pressure processing and Membrane technologies in food processing.
- Food irradiation, RF & microwave heating.

Resource Person

1. Dr. Kakali Bandyopadhyay, HOD, FT
2. Dr. Anju Paul, Asst. Prof., FT
3. Mr. Arka Roy Chowdhury, Asst. Prof., FT
4. Ms. Shairee Ganguly, Asst. Prof., FT

Department of Food Technology



FEMAS 2019



FOSTAC Training in MKAUT

The collage consists of four posters:

- Top Left:** An invitation for a live webinar with Dr. Anil Arora (Speaker) and Dr. N. Suraj Kumar (Moderator). Dr. Arora is the Director of Institute of New Gastroenterology and Percutaneous Sciences at Sri Gangee Hospital, Delhi. Dr. Kumar is a Consultant Gastroenterologist in Manipal. The invitation is addressed to "Dear Doctor, you are cordially invited to attend the LIVE WEBINAR on..."
- Top Right:** A poster for a webinar titled "INNOVATION & BRANDING - A Case study of a leading B2B Brand from TATA STEEL". It features a photo of Mr. T.V.S. Shenoy, Chief - New Materials Division at Tata Steel. The webinar is on April 20, 2020, at 7:00 PM. Logos for Zoom, Facebook, and LinkedIn are shown.
- Bottom Left:** A poster for an "ONLINE GUEST LECTURE" titled "Feeding 10 Billion with Smart Protein: Plant based and Cultivated Meat, Eggs, and Dairy". It features photos of Siddharth Bhide (Science & Technology Specialist) and Shardul Dabir (Innovation Specialist). The event is part of "प्रज्ञा 2020" (Pragna 2020) on March 22nd.
- Bottom Right:** A poster from BCC&I (The Bengal Chamber) titled "LEARN, LEAD AND LINK-UP". It promotes the idea that "KNOWLEDGE COMES CLOSER WITH SOCIAL DISTANCING". It includes a list of attendees: Management Representatives, Internal Auditors and Second Party Auditors, Supervisors, Food Safety Professionals, Managers, Production Executives, Canteen staff, and Food Safety Professionals in O&P Food.

Webinars Attended by students



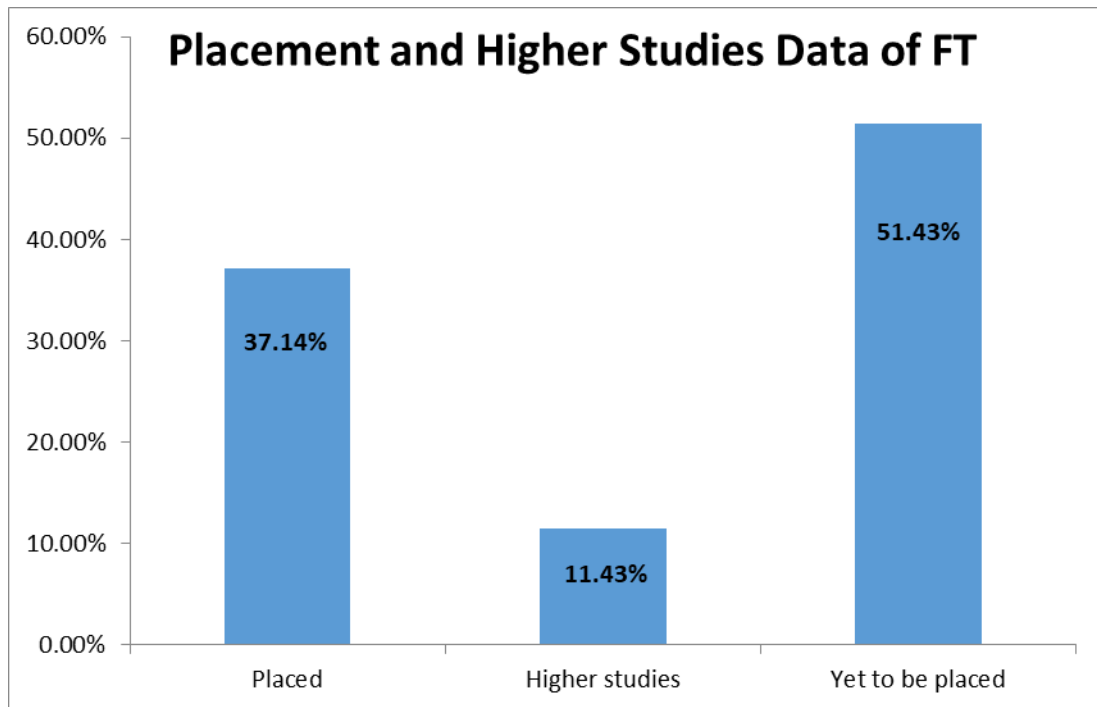
3 Day Camp on Awareness to the Society about Adulteration in Food at Dol Mela

Project Display in MHRD Industry Academia Meet cum Exhibition

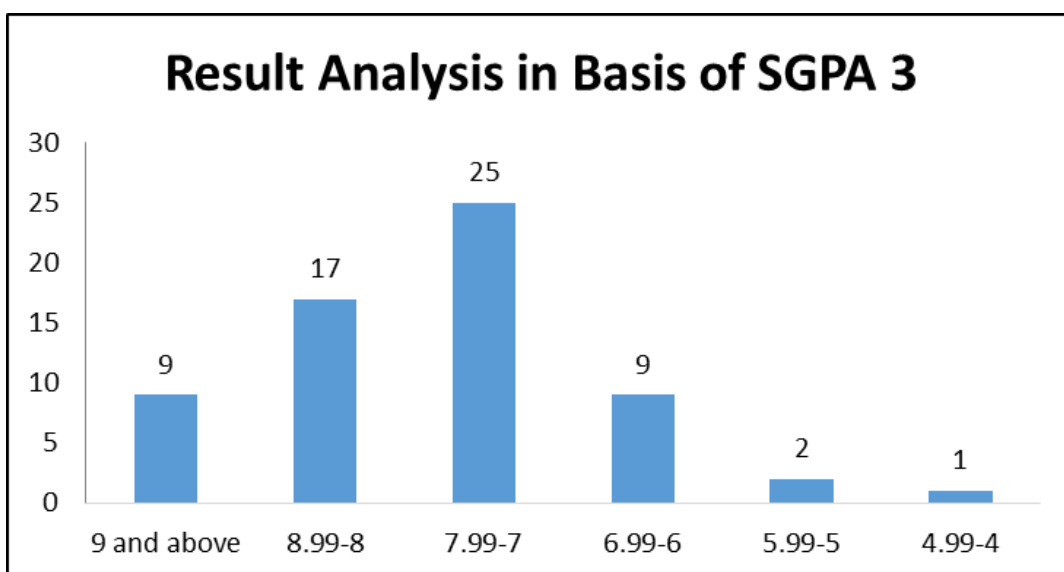


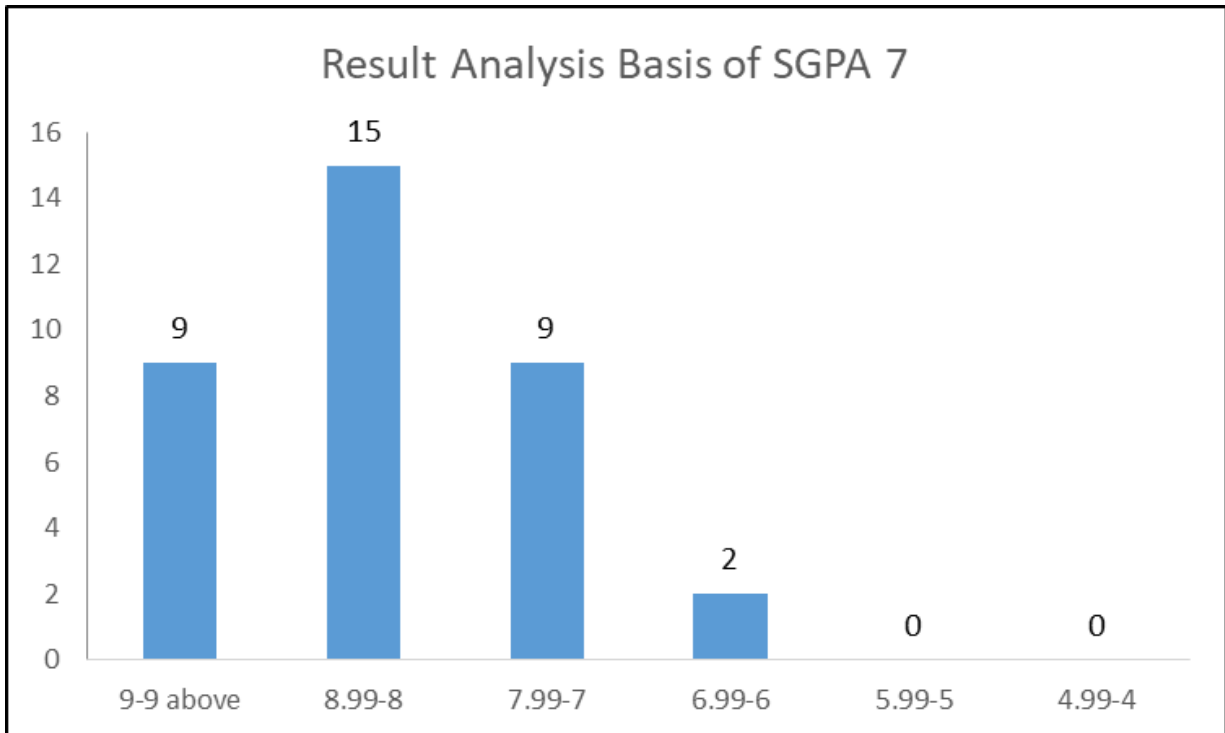
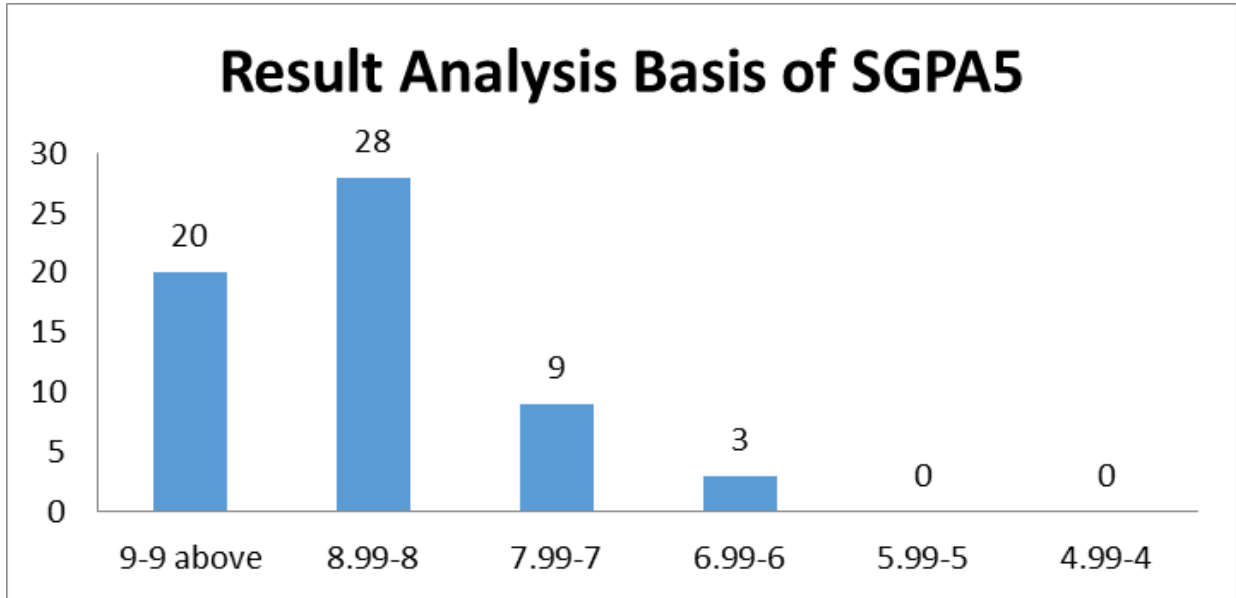
Food Envision Version I from 30.8.2019 to 31.08.2019

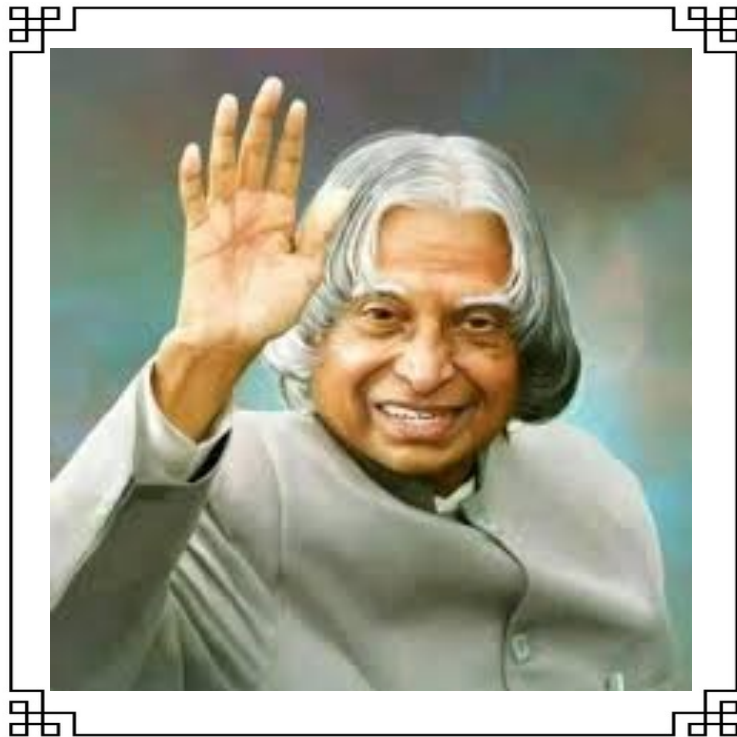
Placement and higher studies



Result Analysis







A dream is not that which you see
while sleeping, it is something that
does not let you sleep.

- *APJ Abdul Kalam* -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Applied Science & Humanities

ANNUAL REPORT

2019-20

Name of the Department: Applied Science & Humanities

Vision of the department

To convert the students of technology into successful professionals and human resources of high caliber through intellectual, moral, and value based training along with highly motivated academic activities by the support of a group inspiring, dedicated and capable teachers and empowering infrastructures which make them eligible to contribute innovatively towards the technological up gradation of the nation and also to cater to the needs of society as committed citizens.

Mission of the department

- * To ensure the smooth journey of a 12th passed out student towards a successful career of Engineering by bridging the gap between science and technology.
- * To create a teaching – learning environment conducive to the pursuit of Higher
- * Knowledge, relevant skills and experience
- * To train them with the basic ethical values of profession.
- * To promote awareness on ecological and environmental issues.
- * To sensitize the students on current socio-economic issues by including related topics into the co-curricular activities.
- * To give exposure to basic principles of Management and Business Economics urgently needed by the present day professionals
- * To make them aware of the proper technical languages & corporate requirements through aptitude and soft skill classes.
- * To create research environment which can lead to consultancy and extension activities and finally to make them industry ready.

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- * **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Brief overview of the department

Food Technology is the application of food science to the selection, preservation, processing, packaging and distribution of food. This is used to ensure that a safe, nutritious and wholesome food is made available to the consumer. Food Technologists study the physical, microbiological, and chemical composition of food as well as to develop food process technologies, its characterizations, preservation, packaging and storage of food, according to industry and government specifications and regulations.

The Department has the following laboratories:

Food Processing Lab, Food Analysis and Quality Control Lab, Food Microbiology and Microbial Technology Lab, Food Chemistry Lab, Unit Operation of Chemical Engineering Lab, Sophisticated R&D Lab.

All are studied with various sophisticated equipment like:

Freeze Drier, Cold Centrifuge, Deep Freezer (-23OC), UV-Vis Spectrophotometer, Spectrofluorimeter (Perkin Elmer), Gerber Centrifuge, Brookfield Viscometer, Laminar Air Flow Table, BOD Shaker Incubator, Autoclave, Tray Drier, Plate Freezer, Ice cream Churner, Pulper, Fluidized Bed Drier, Spray Drier, Baking Oven, Canning Unit, Homogenizer, Rotary Vacuum Evaporator, Single Screw Extruder, Jaw Crusher and Ball Mill, Heat Exchanger, Packed Bed Distillation Column, Steam Jacketed Kettle, Reynold's Apparatus, Digital Microscope etc.

HOD Message

We, at the ASHU Dept have continued to prove that innovation is the new normal this year. In spite of the lockdown and the devastation of cyclone Amphan, we have carried on teaching, mentoring, taking online exams and tutorials, organizing a webinar series with a stellar cast of resource persons! Our faculty and staff have carried on all normal activities despite the constraints we have faced. Our students, of course, have been our mainstay and support. On the whole it has been a difficult time but I am glad to say we have risen to the challenge. , etc.

Dr. Sucharita Chakroborty
HOD,
Applied Science & Humanities

Departmental Achievements:

(a) Faculty

- * Dr. Sucharita Bhattacharyya, Associate Professor, completed Ph. D. work as Supervisor in MAKAUT on 27.08.2019
- * Dr. Anup Kumar Thander ,Assistant Professor, completed Ph. D. degree from MAKAUT on 27.08.2019
- * Dr. Indrajit Bose, Assistant Professor, published poem in A Verse of Silence journal, Autumn Issue 2019 (October-November) and published poem in YAWP Literary Magazine, Winter Issue 2019 (November-December)
- * Dr. Soma Mukherjee, Assistant Professor, completed the 3 months online course "BASICS OF QUANTUM MECHANICS" from IIT Kanpur, with Excellent grade

(b) Students

- * Ashesh Roy Choudhuri, Deepa Kumari, Deepak Kumar Giri, Nobonita Ayan and Saswata Dutta of CSE 1st Year were winners of TECHINNOVA 2019, organized by CSE department, competing with the students of 1st year to 4th year in July 2019.
- * Ishon Mallik, Writtika Sas, Piyali Banerjee, Soumili Mishra, Sutirtha Sil, Marya Mukherjee of FT 1st Year were Winners of the Intra-College Hard ware model competition in TESSERACT 2019.
- * Several students cleared the NPTEL exams in ELITE category.
- * An inter-school slogan writing contest, "Combating Covid-19" was organized in April 2020.
- * The GNIT students presented an exciting array of models on Smart Fire Extinguisher, Automatic Floor Cleaner and various others including on light displays in the model display in NSD 2020. Models using waste materials garnered much appreciation from the audience. Beautiful posters made by the students on the theme "Women in Science," were also displayed.
- * Students performed a video making competition on life during the lockdown ASHU's "Obosore Prayash" in May 2020 with the 1st Position: Team Nostalgic (FT 1st Year), 2nd Position: Team Sristichara (CSE 1) & 3rd Position: Binodone bioscope e .
- * Around 70 students from 1st year B. Tech qualified the Ethical Hacking Short Term Training Program 1 (September 2019 - March 2020) organized by Guru Nanak Institute Of Technology in Association with National Cyber Security Society on the 23rd March
- * The Nature Photography Competition "THROUGH THE LENS" was an ASHU initiative to commemorate Earth Day in June 2020, coordinated by Dr. Mainak Debnath Assistant Professor of Chemistry. Hrishita Sarkar, Md.

Meraj Ansari and Vanshika Verma won prizes.

- * Resurrect 2020 @ Design Thinking Challenge intensively engaged in Innovations to Handle Post Covid19 challenges in all the spheres of life . The teams Mind Blenders, Team Alpha and Team Unbeatables occupied leading places.
- * The Dept in collaboration with GNIT Media organized Innovation @ New Normal on June 25th 2020, to inculcate Entrepreneurial and Creative Skills among the 1st Year Students.

Grants Obtained:

- * Dr.SucharitaBhattacharyya obtained a grant of Rs2,98,000/-for organizing an STTP on “Educational Technology in Engineering Teaching” on 19.07.2019 from the AICTE.
- * Dr.Sucharita Bhattacharyya obtained TGS from AICTE of Rs1,29,000/- on 08.04.19 for attending 9th International Conference on Optics, Photonics and Laser at Germany and presenting Invited lecture
- * Dr.ShreyasreeBasu&Dr.Sucharita Bhattacharyya obtained a grant of Rs60,00,000/-on 26/12/2018 from the DST for a project “To Develop and Promote a new state-of-the-art laboratory for Nano Technological Research and Education”. Currently, this is an ongoing major project in the Dept.

Seminars, Conferences & Webinars organized by the Dept (in-house):

- * Mr.SumanKar, Alumnus of ECE, spoke at a Seminar on “Human Values”on 05.08.2019.
- * Dr.AnirbanDhar, Dr. Annapurna Palit, Senior Scientist, Professor, presented at a “One Day Seminar on Photonics and Career

Opportunities”, on 21/09/2019.

- * Dr. Abhijit Kar Gupta, Dr. Ananda Dasgupta, Dr. Arunabha Adhikary, Prof. (Dr.) Chandan Chakrabarty, Prof. (Dr.) Amlan Chakrabarty, Prof. (Dr.) Rajat Kr. Dey, Nishant T, Associate Prof., Professor & Engineer, STTP program on “Educational Technology in Engineering Teaching” from 06.01.2020 to 11.01.2020
- * All the faculties & staff members of ASHU Department took part in a “Two Days Workshop-cum-Boot Camp on Science & Language Skills”- Celebrating National Science Day from 27.02.2020 to 28.02.2020.
- * Prof. Dr. Debiprasad Duari, Director, Research & Academics, M.P. Birla Institute of Fundamental Research, Kolkata, Presented in a “One day seminar on “Advances and Challenges in Astronomy and Astrophysics” on 05.03.2020.
- * Dr. Nira Konar, HOD, Humanities, Associate Professor of English, College of Engineering and Management, Kolaghat spoke at a Webinar on "Just Connect: New Bearing in Teacher-Students Interaction" on 18.04.2020.
- * Dr. Siddhartha Dechoudhury, Senior Scientist, Variable Energy Cyclotron Centre, Kolkata spoke at a Webinar on "Measuring Cosmos" on 04.05.2020.
- * Dr. Surajit Kundu, Associate Dean, Student welfare and Asst. Professor, Dept. of ECE, NIT, Sikkim, spoke at a Webinar on "Communication Engineering: Past, Present and Future" on 05.05.2020.

- * Dr.Niloy Kumar Das, Assistant Professor, College of Medicine and JNM Hospital, Kalyani spoke at a Webinar on "COVID-19, the Pandemic and its future"on 11.05.2020.
- * Mr.SaptarshiPathak, Senior Executive Engineer, Gallium Arsenide Enabling Technology Centre, DRDO, Hyderabad spoke at a Webinar on "MMICs and Its Components for Communication Technology “on 07.06.2020.
- * Prof. Souri Banerjee, Department of Physics & Dean Faculty Affairs, BITS, Pilani, Hyderabad Campus spoke at a Webinar on "Newton's Law of Motion: Beyond theTextBook"on02.07.2020.
- * Mr.ArijitHazra, CEO, Think Again Lab, Josh Talk Speaker, Nasa Space Apps India Lead,spoke at a Webinar on "Thought Shop on Upstart with Startup"on 04.07.2020.

Student Training Programmes:

- * The faculty members of the Mechanical Section, GNIT conducted a Beyond Syllabus Trainingon “AUTOCAD” for B. Tech. 2nd Year and 3rd Year students on 07.07.2019 to 19.07.2019.
- * Dr. Sreyasree Basu& Dr. Mainak Debnath conducted “Beyond Syllabus Training onWaste Water” for the students of Food Technology 3rd and 5th Semester on 12/07/2019.
- * Mr. Anup Kumar Thander and Mr. Goutam Mandal conducted Beyond Syllabus Training on MatLabfor the students of Diploma. 3rd and 5th Semester from 10/07/2019 to 12/07/2019.

- * In collaboration with Ardent Computech Pvt. Ltd we organized an online workshop on Python Programming where students of CSE, ECE, IT 1st yr participated during 29th April to 1st May 2020.
- * 2 week Online Industrial training was organized on IOT during (14-27) May, 2020 where my students of ECE, AEIE, EE 1st yr participated.
- * 2 week Online Industrial training was organised on Web Design during (14-27) May, 2020 where my students of CSE, IT, FT 1st yr participated



Snapshots from the Seminar on “Photonics and Career Opportunities.”

Induction Programme of 1st Year B. Tech:

For the second consecutive year, the Dept successfully organized the Induction programme for 3 weeks from 30th August to 16th September for the fresh B. Tech undergraduates, numbering more than 450. The programme got off to a rousing start with the inauguration in the Orientation Programme by the Principal Prof (Dr) Shantanu Kumar Sen and

the visiting foreign dignitaries, Prof Tita Kyriacopoulou of the Paris et Marne la Valee University, France and Prof Dimitri Chrissoulidis from Aristotle University, Greece. Prof Sen introduced the new students to the ethos and culture of GNIT and stressed the need for holistic development in order to mould the leaders of tomorrow. The students also went through a guided campus tour. During the Induction Programme spanning the next three weeks the students were introduced to various extra-curricular activities like creative writing, JAM sessions, quizzes, poster making, and group discussions. They also attended various lectures and talks, like those on Stress Management and yoga. They also visited a school for slum children. There was also an interactive session with their Industry Mentors. The program concluded with an environmental conservation issue, the walk “Save Water” on 16th August, where students participated with wholehearted enthusiasm and energy.



Glimpses from the Orientation & Student Induction Program, August 2019

Departmental Extra-Curricular Activities

Preparation of hand sanitizers:

During the COVID-19 lockdown in March 2020, the Chemistry Section took the initiative in preparing hand sanitizers for people's use, during a time of great scarcity, according to WHO-approved norms. The sanitizer, Safe Touch,

was subsequently distributed among the GNIT staff on campus and the economically weaker sections of the neighbouring community.



The Dynamic Department: Chemistry Section in action in preparing hand sanitizers in March 2020 during the initial phase of the lockdown.

Social Awareness Activities:

As part of the NSS Drive on 14th November the students of GNIT led by Dr.Indrajit Bose, Mr.GoutamMondal and Mr.SouravMajumdar visited Goonj, a leading NGO, located near Science City, to donate clothes.

The ASHU endeavour led by Prof. (Dr.) Santanu Kumar Sen, Principal, GNIT, Dr.Sucharita Chakraborty, Dr.Sucharita Bhattacharyya, Dr.SreyasreeBasu, Dr.MainakDebnath and other Faculty Members, Staff and the Students visited Gobinda Kumar Home (for Orphan girls) in Sodepur for donating clothes and food packets arranged by faculty and students themselves. They went to Gobinda Kumar Home (for Orphans) and spent time with the girls establishing friendship and motivating them to build their confidence so that they make their mark in our society at large.

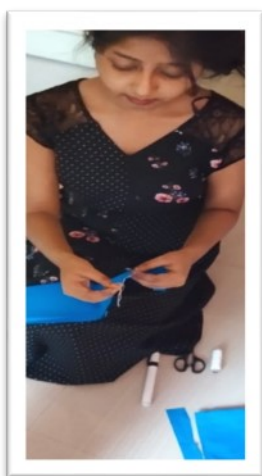


“Miles and miles of smiles”: Students at GOONJ and at Gobinda Home, Sodepur on 14 November 2019.

Helping the Distressed during Lockdown:

Mr Ashok Ghosh, Technical Assistant in the ASHU Dept, participated in donation drives distributing rice, dal, other essential foodgrains and masks to the distressed people living in the Lalbagan-Kumartuli area between 8th and 15th April. Mr.Ghosh also donated a sum of Rs 1000/- to the PM Cares Relief Fund.

Students of the Dept have supported people below the poverty lines who have been the worst affected in the food shortages and work stoppage in the lockdown situation. They have made masks from fabric with their own hands,

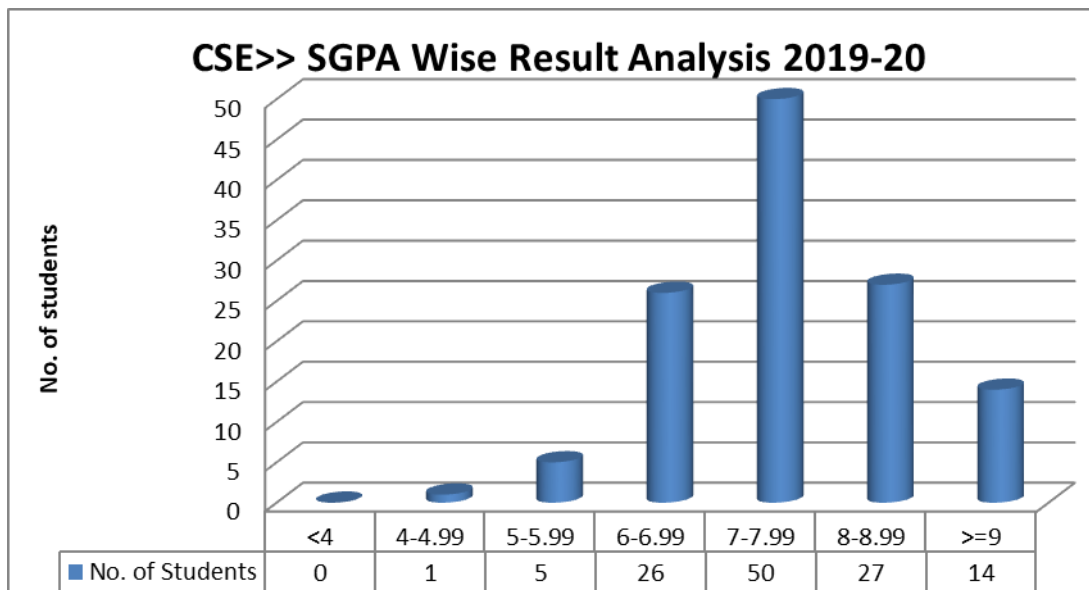


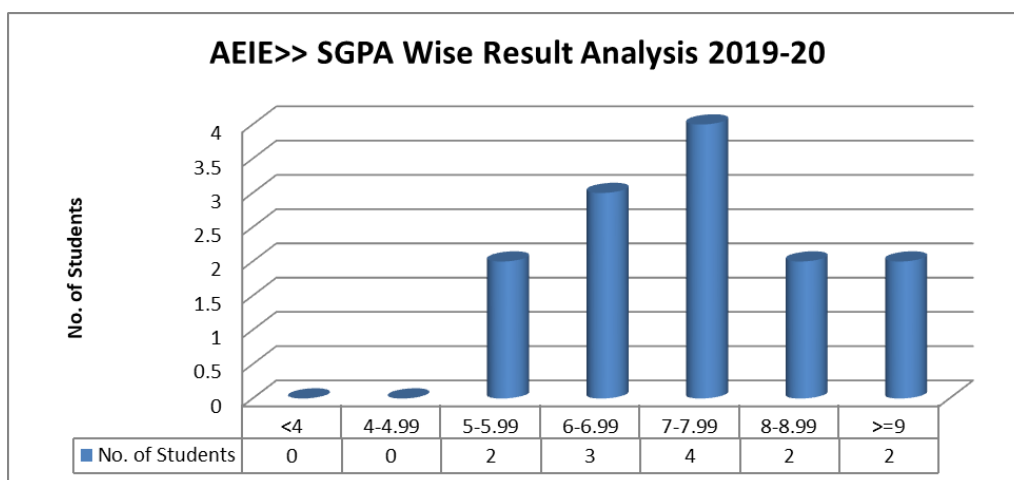
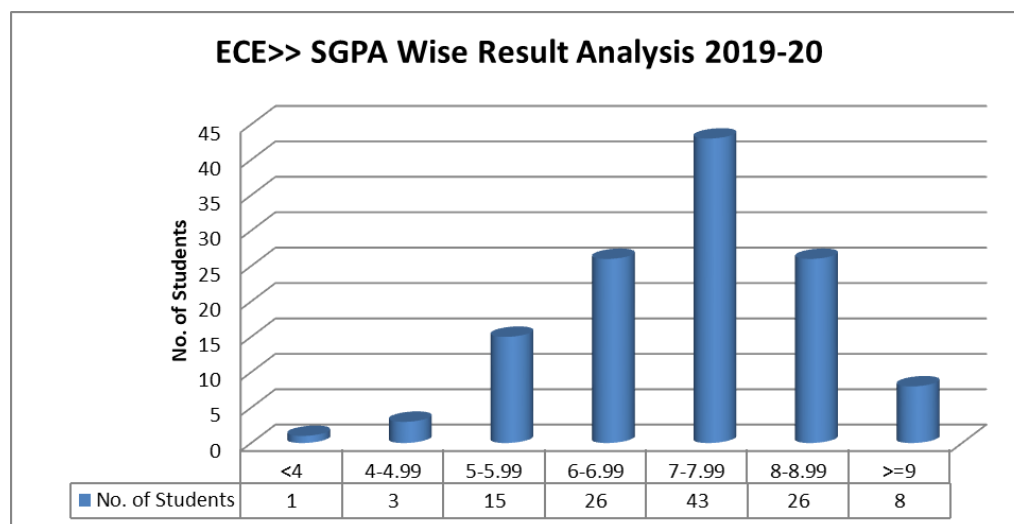
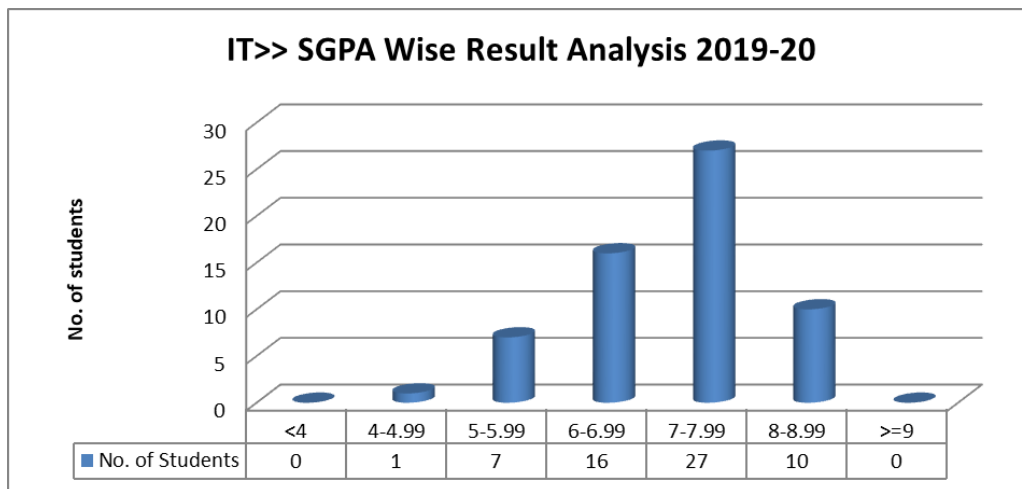
Student efforts after AMPHAN:

The Super-cyclone AMPHAN devastated the life of countless people in May 2020. Our students helped these people in distress by distributing cooked food through Community Kitchen, rations (like rice, lentils, salt etc.), shelter materials (like Tarpaulin), dresses, utensils, basic medicines (like Zeoline, ORS etc.), sanitary pads & many other daily necessities. Here are some of the pictures of moments of pure joy of helping them.

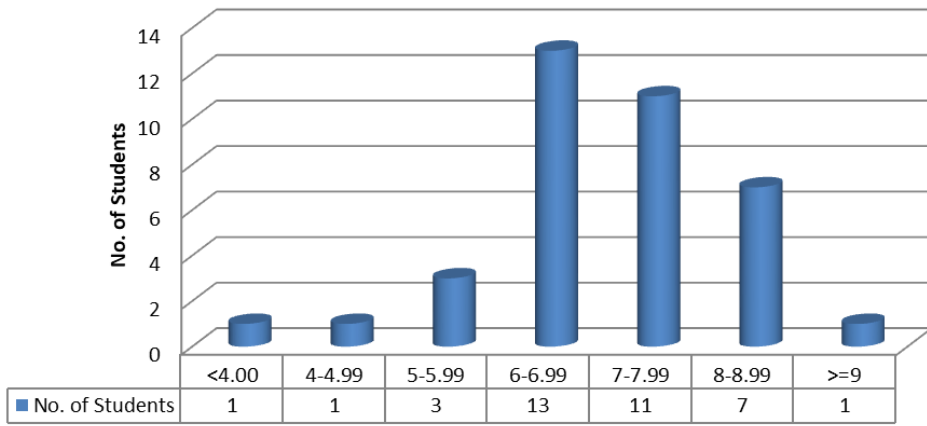


Result Analysis

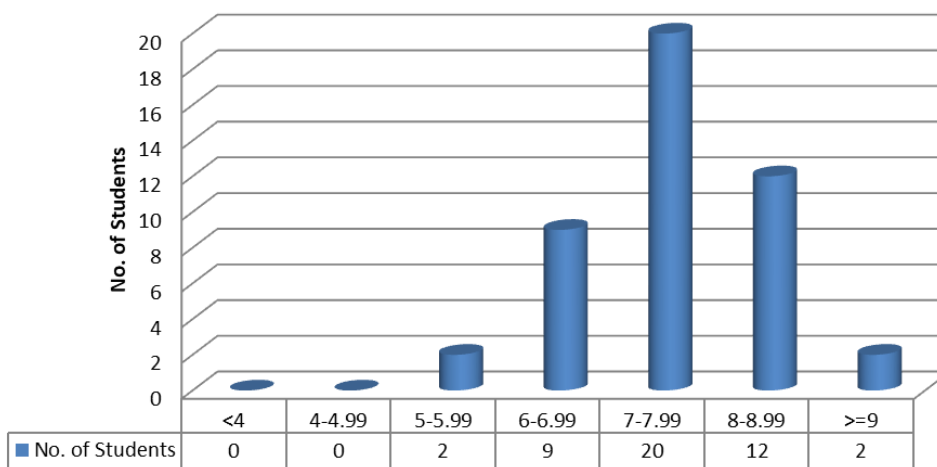


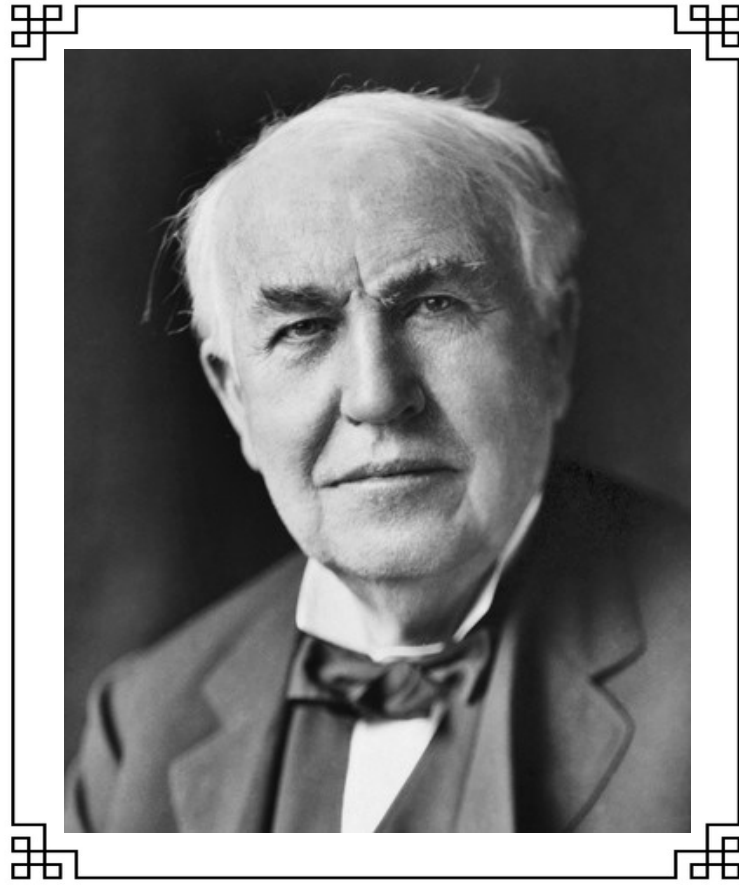


EE>> SGPA Wise Result Analysis 2019-20



FT>> SGPA Wise Result Analysis 2019-20





I have not failed. I've just found 10,000
ways that won't work.

- *Thomas Alva Edison* -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Applied Electronics and
Instrumentation Engineering

ANNUAL REPORT

2019-20

Name of the Department: Applied Electronics and Instrumentation Engineering

Vision of the department

The Vision of the department is to create Electronics & Instrumentation engineers with outstanding technical competency acceptable worldwide to impart research aptitude for societal benefit.

Mission of the department

- * To provide high quality Technical education and Training in response to the changing needs of industries and Society through an innovative learning process related to Electronics and Instrumentation Engineering.
- * To develop employable and competent Electronics and Instrumentation engineers with high academic credentials and to inspire them to take up higher studies and research.
- * To contribute towards the betterment of society by imparting practical skills and technical knowledge to the students.
- * To make Engineers with high professional ethics, social and human values and responsive to community needs.

PEO

PEO1: Graduates of AEIE program will be able to incorporate their knowledge to excel in professional career and also use the fundamental knowledge to enhance the power of invention, innovation & entrepreneurship.

PEO2: Graduates of AEIE program will have strong foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems related to industry and research through lifelong learning.

PEO3: Graduates of AEIE program will be able to inculcate the professional and ethical code of conduct, communication skills, and team work so as to use technology for the progress to the society.

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- * **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO 1: Ability to explore the design, installation & operation of the basic instrumentation systems used in industrial environments

PSO II: Ability to use scientific & engineering fundamentals, skills & tools to formulate, solve & analyze instrumentation problems related to industry & research.

Brief overview of the department

The department of EIE was established in the year 2003. This department emphasizes to create technical professionals who are keen to take engineering responsibilities with a vast knowledge of entire process, medical instrumentation and power plants – a specialization that has grown leaps and bounds in the recent years. The department is equipped with state of the art laboratories to impart technical skill to the students to make them proficient engineers. Instrumentation engineering is a specialized branch of electrical and electronics engineering and it deals with the sensing, signal conditioning, measurement, control, Internet of things, Artificial Intelligence and as a whole automation of process industries. Apart from encompassing core subjects such as industrial instrumentation, process control, control theory, courses offered on bio-medical instrumentation, analytical instrumentation, mechatronics, robotics, software development, hardware topics like microprocessor and microcontroller-based Instrumentation, VLSI and embedded system designs, computer architecture and organization and

computer based control of processes. Instrumentation engineers work for industries with automated processes, such as chemical or manufacturing plants, with the goal of improving system productivity, reliability, safety, optimization and stability. They find jobs in various sectors including R&D units of public and private sector companies, heavy industries such as thermal power stations, steel plants, refineries, cement and fertilizer plants etc. like DRDO, ISRO, NTPC, DVC, SAIL, TATA Steel, Jindal Group of Industries, GAIL, IOCL, HPCL, BHEL, WBTEL. They have a multidisciplinary role to play. One may choose to move sideways into other areas like Software (IBM, Infosys, TCS, CTS, and Capgemini etc.), Banking (SBI, UBI etc.), Education (Different degree & Diploma Engineering Institutions), and Biomedical Instrumentation etc. Biomedical Engineering under EIE Dept. has excellent job prospects as demand for sophisticated medical devices has been increasing. This branch also deals with developing and manufacturing medical equipment, diagnostic devices. The department also encourages students to engage in different extra-curricular & co-curricular activities to develop personal & professional ethics and management.

HOD Message

The department of AEIE was established with the vision to create technical professionals who are keen to take engineering responsibilities with a vast knowledge of entire process, medical instrumentation and power plants – a specialization that has grown leaps and bounds in the recent years. The department is equipped with state of the art laboratories to impart technical skill to the students to make them proficient engineers. The department also encourages students to engage in different extra-curricular & co-curricular activities to develop personal & professional ethics and management.

Mrs. Bapita Roy

HOD

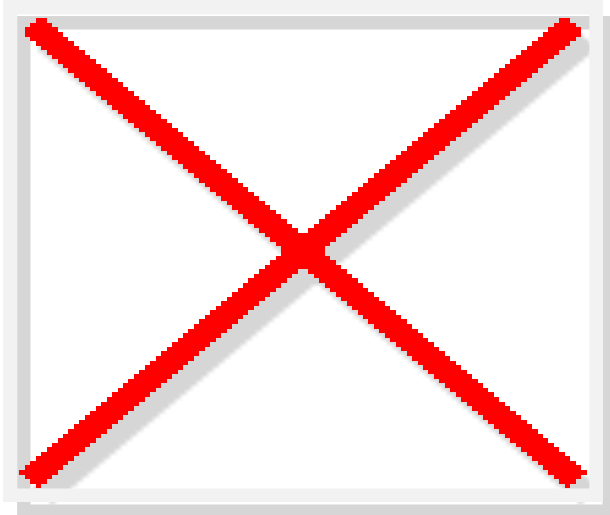
Electronics and Instrumentation

Departmental achievements:

Student's achievements:



Soumyajit Dutta, Rahul Sarkar (student of second year AEIE) & Ritika Shaw(ECE) under the mentorship of Mrs. Bapita Roy, H.O.D., AEIE : Best paper award in ICORE,2020



Tathagata Chatterjee (student of 3rd year AEIE) : 3rd prize in Quiz Competition by SPONSA, New Zealand on Blockchain



Biswarup Mukherjee: Got the award as the Distinguished Alumni in 100th Birth Centenary of Late Sardar Jodh Singh, the Founder of JIS Group on 1st February 2020

Soumyajit Datta (student of 2nd year student of AEIE department): has been selected as a college ambassador of the Entrepreneurship Cell, IIT Bombay for the session 2019-2020. The certificate is attached herewith





Shovan Kar: All India rank 257 in Instrumentation and got admission in M.S. program in the department of Electrical Engineering at IIT Madras



Sayani Roy and Sonali Das (Students of 2nd year AEIE): 1st Prize owner in Poster Competition on 30-31st August 2019 in FOOD ENVISION 2K19 -Organized by Food Technology, GNIT.

- * **Subham Sarkar** (student of 4th year): Participated as **Goal Keeper** in clinched the Champions' Trophy in the **Inter-college Football Tournament** entitled "**Soccer Strike 2019**" organized by **The SSKM Medical Hospital**.
- * **Debasish Basu** (student of 4th year):
1st in GPS Treasure Hunt Game, organized by AIT Thiland on 1-15th July 2019
1st in Presentation on Climate Change Adaptation and Mitigation, organized by AIT Thiland, 1-15th July 2019
Chanakya Fadikar: Got **Kriti 2019** award for **Departmental Topper** in terms of YGPA
- * **Subhajit Dalal**: Got **Kriti 2019** award for **Departmental Topper** in terms of YGPA

- * **Sumon Das:** Got **Kriti 2019** award for **Departmental Topper** in terms of YGPA
- * **Subhajit Kr Hooi:** Got **Kriti 2019** award for **Departmental Topper** in terms of YGPA
- * **Arpan Kumar Lahiri :** Got **Kriti 2019** award for Departmental Topper in terms of DGPA
- * **Atreyee Das :** Got **Kriti 2019** award for 1st in Rangoli Competition organized By IEM Kolkata
- * **Soumyjit Dutta:** Got **Kriti 2019** award for selected as **Campus Ambassador, GNIT** by **EDGE'19, Annual Techno Management fest of Techno Mani , SaltLake**

Faculty's achievements:

- * **Mrs Bapita Roy:**

Acted as the Coordinator of IIRS/ ISRO outreach network being the representative of GNIT (Network Institute of IIRS) and participate in the conduction of the Course 'Satellite Photogrammetry and its application" from 29th June to 5th July 2020. Two students under her mentorship qualified this course with a good marks in all India basis.

Successfully completed the NPTEL course on "Introduction to Internet of Things" with 94% marks

- * **Dr. Adhish Kumar Chakraborty:**

has been selected as a reviewer for the International Journal IET System Biology

- * **Dr. Paramita Banerjee:**

1. NPTEL course with 87% marks (Data Base Managemnet System)
2. As reviewer in IEEE Sensors 2020 Conference on 22nd July 2020

* **Ms. Santana Das:**

Successfully completed the NPTEL course on “Embedded system Design”

* **Ms. Suparna Maity:**

Successfully completed the NPTEL course on “Introduction to Internet of Things” with 95% marks

* **Ms Bapita Roy:**

successfully completed the NPTEL course on “ Accreditation and Outcome based Learning” in ELITE + Silver category (one week FDP)

got **Kriti 2019** award for **Patent published** on Low latency Wavelength Division Multiplexing system coupled with a short range surface Plasmon polariton waveguide.

Awarded by JIS Group for Research Excellence

* **Dr. Paramita Banerjee:**

successfully completed the NPTEL course on “ Accreditation and Outcome based Learning” in ELITE + Silver category (one week FDP)

got **Kriti 2019** award for **Patent published** on Low latency Wavelength Division Multiplexing system coupled with a short range surface Plasmon polariton waveguide

Got **Kriti 2019** award: (Principal’s Choice) for special contribution as Routine Committee Convener

Awarded by JIS Group for Research Excellence

* **Dr. Adhish Kr Chakrabarty:**

got **Kriti 2019** award for **Patent published** on **Dual Condenser Packed Bed Distillation Column**

* **Ms. Santana Das:**

successfully completed the NPTEL course on “ Accreditation and Outcome based Learning” in ELITE + Silver category (one week FDP)

* **Ms. Suparna Maity:**

successfully completed the NPTEL course on “ **Accreditation and Outcome based Learning**” in **ELITE + Silver category** (one week FDP)

Got **Kriti 2019** award: (Principal’s Choice) for organizing PTM for last 4 years successfully, organizing KRITI Award ceremony for last 4 years successfully.

* **Mr. Sudip Kuila:**

successfully completed the NPTEL course on “ **Sensors & Actuators**” in **ELITE + Silver category** (one week FDP)

successfully completed the NPTEL course on “ **Introduction to Research**” in **ELITE category**. (one week FDP)

Enrolled for Ph.D under MAKAUT on 6th July 2019, under the guidance of Dr. Surajit Bagchi, HITK

Departmental events organized

Industry Institute Interaction Activity:

- * Industry Visit organized by the department of AEIE at C-DAC, Kolkata, on 26th February 2020 for all the students of the department. This visit helped the participants to obtain knowledge in a new era of instrumentation engineering

* **Industry Mentor Meet:**

Mr. Amitava Akuli, Joint Director, C-DAC, Kolkata on "Quality Assessment of Agricultural Produces – A Machine Vision Approach" on 22nd February, 2020 . The experts delivered lectures on E-Nose and E-Vision, where he explained what E-Nose is and E-Vision, their functioning and the importance of them in the recent trends in Engineering and technology. This seminar focuses on the development of electronic nose and vision system and few applications in the field of quality monitoring of tea, rice etc.

Training program organized at department for Students:

- * Beyond syllabus training on Introduction to MATLAB programming organized by AEIE department by the faculty experts of AEIE department Dr. Paramita Banerjee, Ms. Suparna Maity, Mr. Sudip Kuila from 6th January to 12th January 2020 , for 2nd year students
- * Beyond syllabus training on IoT based Instrumentation System organized by Department of AEIE in collaboration with Ardent Computech Pvt. Ltd. For 3rd year students in the month of January
- * An online training on Machine Learning using Python has been organized by IE Students Chapter, Department of Applied Electronics and Instrumentation Engineering in collaboration with Ardent Computech Pvt. Ltd. On 28th March 2020 for the students of AEIE. All the faculty members also attended the webinar.
- * The expert explained the use of Python, a general-purpose language, to do a set of complex machine learning tasks for building and testing prototypes of various instrumentation systems for machine learning purposes.

International / National Webinars organized:

International Webinar:

An International Webinar on *“Engineers & Entrepreneurs”* was organized by IE Students Chapter of Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology at 10:00 a.m. dated 16th April, 2020. The Webinar was facilitated by Mr. Vaibhav Gupta, Technology Head, and Infosys, Canada & Pursuing PGP in Business Intelligence and Business Analytics from University of Texas at Austin in collaboration with Great Lakes Institute of Learning Learning & also esteemed Alumni of AEIE Department.

Webinars given by students:

The Department of Applied Electronics & Instrumentation Department of Guru Nanak Institute of Technology has organized series of webinar on Recent Trends on Instrumentation Like (Bluetooth Technology, Fiber Optic Sensors,

Applied Electronics and Instrumentation Engineering

Training an ANN, Fuzzy logic Control System, Keys in DBMS, Application of Laser, Virtual Instrumentation, IoT in Home Automation) from 02/05/20 to 07/05/20 on Myperfectice white board. During this session 3rd year students discussed various topics which is mentioned above. Total 29 participants from 2nd , 3rd B.Tech participated along with faculty members of AEIE Department.

International Webinar:

An International webinar on "Hybrid and Pure Electric Vehicles: An 'Engineering' perspective" has been organized by IE student chapter of AEIE department GNIT on 5th June 2020. The eminent speaker for this webinar was **Mr. Syamantak Sengupta, Senior Systems Integration Engineer (Controls**



Integration)at LHP Engineering Solutions (LHPES)working with the Electrified Power group at Cummins. He is responsible for developing and integrating Control System applications for different xEV products at LHPES.In this webinar the speaker delivered a lecture on the practical aspects of Electric and Hybrid Vehicles.

Digital Parent-Teacher Meeting:

Digital Parent-Teacher Meeting for all Students were conducted by the Department of **Applied Electronics & Instrumentation Engineering** on the **Zoom Platform** in regular basis once in a month. The parents appreciated the initiative taken by the **JIS Management Team** for facilitating the students in their **academic**

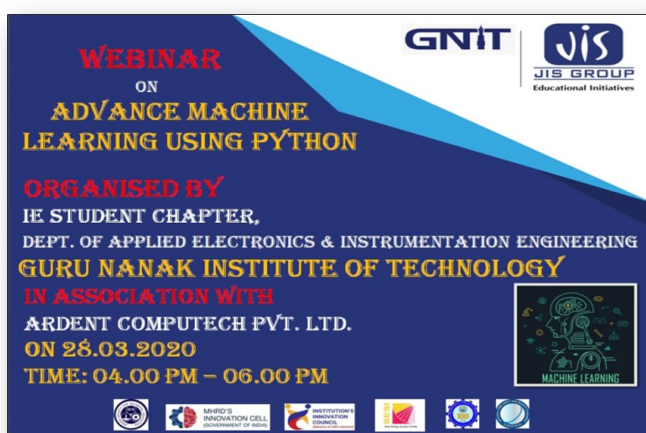
engagement, during the **Lockdown Period**. Everyone welcomed the concept of **Digital Learning** and they expressed their **satisfaction** as their wards are involved in **regular academic engagement, Internship, Innovative Projects and Social Responsibility**.

Online Mentor's Meet:

Mentor's Meet with all students of each year arranged in regular basis once in a fortnight and also as per requirement on the digital platform.

Online Classes and virtual labs Conducted by Faculty and technical staffs:

During the online class sessions, the enthusiasm which the students are showing is commendable. This shows that the new way of disseminating knowledge has picked the right chord in the students mind. Increase in the participation in the digital lecture sessions prove the effectiveness of the method as well. The digital platform provides us an easy and flexible way of delivering the lecture and as a result the syllabus coverage has also become



easier. Virtual labs are taken by the technical assistants under the guidance of concerned faculty members.

Digital Platform used: whiteboard, Google classroom, discord

Online test:

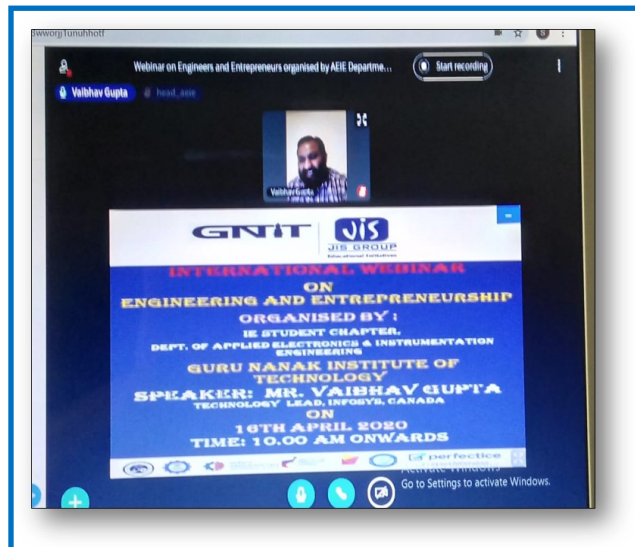
Several online tests are taken by all the faculty members for each subjects on the digital platforms like: Whiteboard MyPerfectice, Google Classroom etc.

Online Quiz/ Assignments:

Total no of quiz/assignment = 90 (during the time period from 17th March to 14th April 2020) **Digital Platform used:** whiteboard, Google classroom

Online Group discussion:

The IE student chapter of Department of AEIE had organised **Online GD on 7th and 14th April 2020 on Whiteboard MyPerfectice digital platform** from 12pm onwards. The topic was "**Impact of COVID 19 on global economy**". Total 30 number of Students were participated in the session. Ms Bapita Roy,



Head of the department, AEIE conducted the session. Students participation was so enthusiastic and they also given some valuable suggestions.

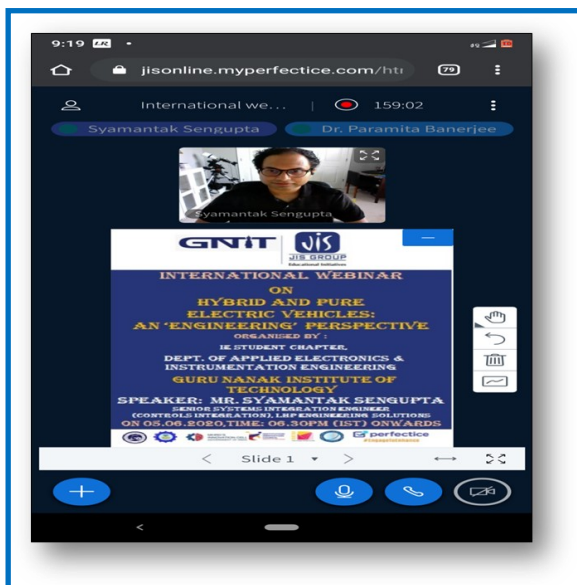
Online Debate:

Department of AEIE organized an **Online Intradepartmental Debate Competition on 8th April, 2020** from 12.00 pm to 2.00 pm for 3rd year students. Depending on the current scenario the topic was decided as "**Digital Learning Vs Traditional Learning**". The Session was conducted by Mrs. Bapita Roy, Head of the Department, AEIE..

Cultural Activities:

Digital Night:

All Faculty and staff members are participating in the *Digital cultural night* organized by **Guru Nanak Institute of Technology**. The family members of the faculty members also participated in the event. They took part in different types of cultural events like solo singing, dance, recitation etc. Dr. Paramita Banerjee, Assistant Professor of the department of AEIE is the Coordinator of



the

event.

Online celebration of Rabindra Jayanti (Institutional):

Faculty members participated in the Online celebration of Rabindra Jayanti (Institutional) on 8th May 2020. Ms. Bapita Roy, H.O.D., AEIE & Dr. Paramita Banerjee had participated in solo singing.



Online

Cultural Fest - FELICIFIC v1.0 :

The students of the department of AEIE are actively involved in the *Online cultural fest*. Teachers are also motivating them to act properly and help them to make the program successful.

CSR/ISR activity:



Faculty Activity:

Ms Santana Das and Ms Suparna Maity, are involved in helping a group of orphan girls (about 20 girls) for their education under the care of a retired lady Teacher along with Hawker's Association of Dumdum Station.

Student Activity:

Piu Roy, student of Final Year AEIE, **active member of an NGO**. She is taking care of all street dogs in her locality during the lockdown period by providing them necessary foods.

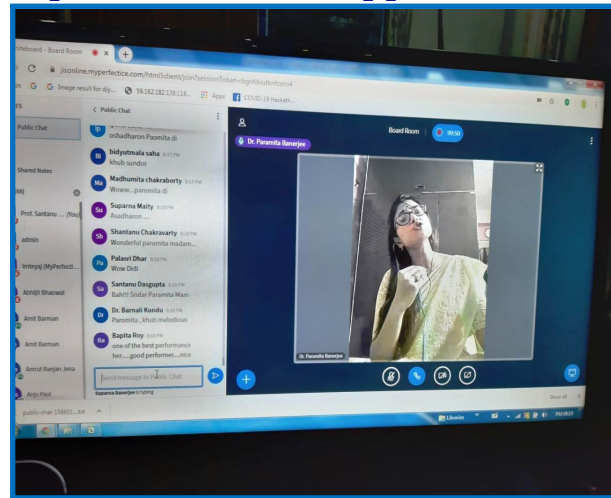
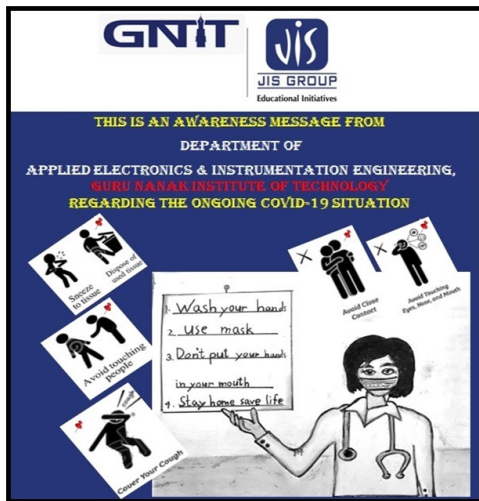
Awareness Campaign for COVID 19:

Sending different awareness messages, posters, flyers etc to the teachers and students of the different schools.

Admission drive 2020 activities:

Online Career Counselling (phase 1):

Department of Applied Electronics &



Instrumentation Engineering @ GNIT organized an **Online Career Counseling** in collaboration with Admission Cell on 7th May, 2020 from 5:00 pm for 10 +2 students with Science background. Students from different schools participated in the program. Several Career Prospects, after 10+2 with a science background, were discussed by Mrs. Bapita Roy, HOD@AEIE. The interactive session witnessed a Q & A Session.

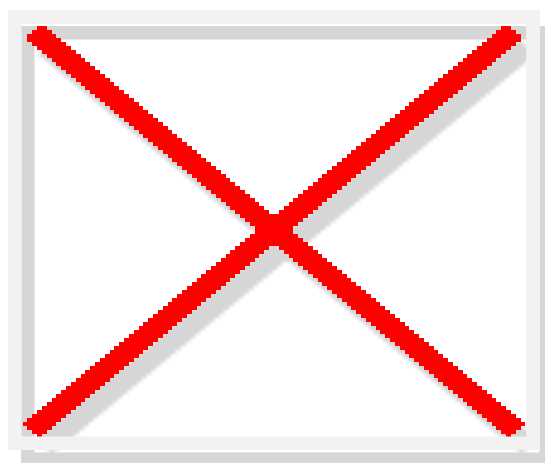
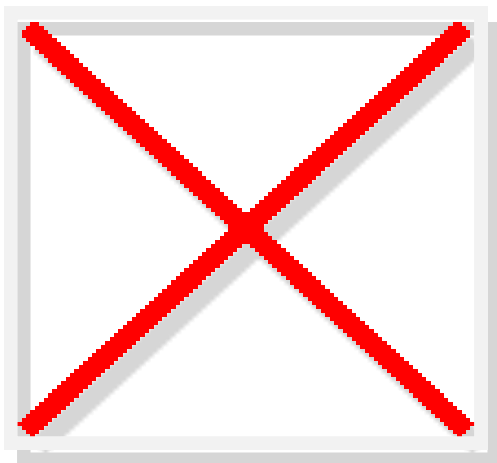
Online Career Counselling (phase2):

Department has organised an **Online Career Counselling** in collaboration

with **Admission Cell** on **7th July, 2020** from **5:00 pm** onwards for **10 +2 Students with Science Background**. Students from different *schools* participated in the program. Several career prospects, after passing class twelve with a science background were discussed by **Mrs. Suparna Maity, Astd. Prof. AEIE**. There was an **interactive session** where many queries of the participants were cleared by **Mrs. Bapita Roy, HOD, AEIE**

Invited online Talk:

Arrangement of an invited talk on **29th April, 2020** in **First session**, **Mr. Samiran Roy, Global Category Manager, Honeywell, International, Gurgaon, INDIA** has delivered a wonderful session on **"Automation-Transforming the life"**, part of **faculty development program** on recent and future trends in technology organized by **GNIT**.



Reunion-"SMRITI MANTHAN-DOWN THE MEMORY LANE-2020" :

Department organized the reunion **"SMRITI MANTHAN-DOWN THE**

Wall Magazine:

Inauguration of Wall Magazine “Fetiales Aevum ” on 25th October,2019. This shows student creativity and technical talent.

Workshop organized :

Workshop on "IOT based Smart Control Device" by Mr Souvik Sarkar, Head of the Department Core Engineering dept. ARDENT COMPUTECH PVT. LTD. On 7th September 2019

Industry Institute Interaction Activity:

Industry Mentor meet:

Department of Applied Electronics and Instrumentation Engineering has arranged an “Industry Mentor Meet” as a part of Induction program for the students on 2nd August 2019. Dr. Anirban Dhar, Senior Scientist of CSIR - Central Glass and Ceramic Research Institute has delivered lecture on “Application of Optical fiber in Instrumentation System”. Dr. Dhar has also highlighted the scope of the instrumentation engineering in various fields and the students have got a clear view on their role and demand in the industry as Instrumentation Engineer.



Industry Visit:

Department has organized an Industry visit at Central Glass and Ceramic Research Institute, Kolkata, on 2nd August 2019 for the students of 3rd and 4th year.

Group Discussion :

Department of Applied Electronics and Instrumentation Engineering has organized a GD among 3rd year and final year students of AEIE department on every Friday of August and September ,2019. It was helpful to develop the interpersonal skills of the students, which will in turn help them during their interview sessions.



Interactive session and brush up course on Process Control:

Department of Applied Electronics and Instrumentation Engineering has organized an Interactive session and brush up course on Process Control for the final year students. It helped them to carry out their final year project work and give them idea on different fields where they can use this tool.

Technical Skill Development program: Department of Applied Electronics and Instrumentation Engineering has organized special Technical Skill Development program on every Friday in the month of July to October, 2019 for helping the students of final year to recapitulate the technical subject knowledge and the students will get an overview about the technical interview questions.

Departmental Board of Studies meeting:

Departmental Board of Studies meeting of Applied Electronics & Instrumentation Engineering department was held at the conference hall of GNIT on 27th November, 2019 in presence of experts of BOS committee, all

the faculty member & staff member of the department

Mock Interview for the final year student:

To make the final year students ready for upcoming campus interviews the department of Applied Electronics & Instrumentation Engineering took this initiative and students were asked to be present with proper dress Code and Documents in the Mock Interview scheduled on 12.09.2019 & 19.09.2019.



Alumni Activity :

Alumni Industry meet on 2nd August 2019 by Panchali Kar, Industry Mentor Meet: Tata Consultancy Services Pvt Ltd. The students have got a clear view on their role and demand in the industry as Instrumentation Engineer. They became aware of different techniques for preparing themselves for the current industry trend.

QUIZ Competition:

Quiz competition for all students of department on 2nd August 2019, Students get knowledge on the beyond syllabus domain which will make them ready with recent trend.

Seminar/workshop/ training/ FDP Participated by i)faculty & staff:

(Jan -June,2020)

1.Mrs. Bapita Roy, H.O.D.AEIE:

- 1.attended FDP on "Embedded system Design and Internet of Things (IoT)" during 9-10 January 2020 Under Texas Instruments University Program In association with EdGate Technologies Pvt. Ltd.
2. attended AICTE sponsored STTP, " Educational Technology in Engineering Teaching" during 6-11 January 2020 organized by ASHU department, GNIT
- 3.attended "International Congress on Renewable Energy 2020 (ICORE)" during 7-8 February 2020 organized by GNIT in collaboration with Solar Energy Society of India.
4. attended the online lecture "The Joy of Teaching" on 19-04-2020, organized by NPTEL.
- 5.attended online Lecture ON "Towards Explainable AI" on 23-04-2020, organized by NPTEL.
- 6.attended online Lecture on "Transforming Medicine "on 26.04.2020, organized by NPTEL.
- 7.attended one week Faculty Development Programme (FDP) on "Recent and Future Trends in Technology" from 27.04.2020 to 2.05.2020, organized by Department of Electrical Engineering, GNIT
- 8.attended Webinar on "Education Roadmap for a New Tomorrow" speaker was prof. anil sahasrabubhe on 29.04.2020 organized by JIS , KALYANI.
- 9.Attended the webinar on Data Analytics and AI by Mr. Santosh Mahendrian, Managing Director, Standard Chartered Bank, Singapore organized by NPTEL (series of special lectures) on 29.04.2020
- 10.Attended webinar organized by NPTEL by Dr. Sameer S. Sahasrabudhe, Project Research Scientist, IDP Educational Technology, IIT Bombay on 01.05.2020
- 11.attended a webinar on 'Measuring Cosmos' by Department of Applied Science & Humanities ,Guru Nanak Institute of Technology organized on 04.05.2020

- 12.attended webinar on “ NBA Process” by MHRD on 07.05.2020
- 13.Attended Webinar on blended learning organized by FICCI on 15.05.2020
- 14.Attending Webinar ASSOCHAM Innovate India Online Series with Dr Jere: Session 1 – Innovation in Human Resources Confirmation on 16.05.2020
- 15.attended webinar on “Psychological Counseling in collaboration with Mental Health Foundation, Kolkata” organized by MAKAUT,WB on 18.05.2020.
- 16.Attended Innaugural session of AICTE Training And Learning (ATAL) Academy on 25.05.2020
- 17.Attended a webinar on "Power System and Components" by D. John Yesuraj, General Manger (R&D) [Retired], CG Power and Industrial Solutions Ltd., Nashik. Organized by Department of Electrical Engineering, KKWIEE&R, Nashik on 26.05.2020
- 18.attended webinar on " Power System & Systems" by K K Wagh Institute on 26.05.2020
- 19.Attended ICC webinar - embracing the new normal in the world of education; 27.05.2020
- 20.Attended the Leadership talk by Dr Abhay Jere on 30.05.2020
- 21.Attended VCs' round table Webinar on higher education after COVID organized by ABP on 30.05.2020
- 22.attended webinar on"Holistic Approach Towards Reactive Power & Harmonic Distortion Management to avail benefits of kVAH billing" , organised by K K Wagh Institute on 30.05.2020
- 23.Attended International Webinar on Machine Learning and its application by K.K.Wagh institute on 08.06.2020
- 24.Attended Webinar by Mr. Subhash Ghai, Director & Producer- Hindi Cinema, organized by Idea-O-meter on 09.06.2020
- 25.Attended Webinar on Engineering tomorrow: New fields, Newer prospects starts in 1 day by ABP education on 13.06.2020
- 26.Attended Webinar on "Re-Booting for a Better World" by very eminent Speaker Mr Kalyan Kar,Co-Founder and Director, InQube Innoventures , , organized by Idea-O-meter on 20.06.2020
- 27.Attended leadership talk by MHRD Innovation Cell on 20.06.2020

28. Attended PEP (Passion Ethics Professionalism) TALK, on 20.06.2020, in collaboration with Incubation Farm Pvt. Ltd. (iFARM) on the Incubation Framework to discourse on different aspects of an ideal Incubation Center. @MHRD, the PEP Talk on the topic "Setting up a New Age Incubation Centre and Promoting Alternate Innovation Fund to Promote Cutting Edge Modern-Day Entrepreneurship"
29. Attended training for Hioki Instruments on 22.06.2020
30. Attended Webinar on Design Education: The New Future by ABP Education on 27.06.2020
31. Attended India's First Leadership Talk, with Shri Dipendra Manocha (Motivational Speaker), by MHRD's Innovation Cell on 27.06.2020
32. Attended webinar on Data Science and Applications: Present and Future starts organised by MAKAUT on 30.06.2020.
33. Attended training program on "Machine Learning using Python(Beginner's Level)" organized by Computer Science Department, JIS college of engineering from 8th June 2020 to 24th June 2020

2. Dr. Paramita Banerjee Assistant Professor, Dept. of AEIE:

1. attended FDP on "Embedded system Design and Internet of Things (IoT)" during 9-10 January 2020 Under Texas Instruments University Program In association with EdGate Technologies Pvt. Ltd.
2. attended AICTE sponsored STTP, " Educational Technology in Engineering Teaching" during 6-11 January 2020 organized by ASHU department, GNIT
3. attended "International Congress on Renewable Energy 2020 (ICORE)" during 7-8 February 2020 organized by GNIT in collaboration with Solar Energy Society of India.
4. attended FDP on "Recent and Future Trends in Technology" during 27 March - 2nd April 2020 organized by GNIT.
5. attended Webinar on "Machine Learning using Python" on 28th March 2020 organized by Dept of AEIE, GNIT

6. attended Webinar on "Advanced Machine Learning using Python" on 28th March 2020 organized by Dept of AEIE, GNIT
7. attended International Webinar on "Engineers & Entrepreneurs" on 16th April 2020 organized by Dept of AEIE, GNIT
8. attended Webinar on "Education Roadmap for a new tomorrow" on 29th April 2020 organized by JISCE
9. attended Webinar on "Career counselling" on 7th May 2020 organized by Dept of AEIE, GNIT
10. attended "Power System And Components" on 26th May 2020 organized by the Department of Electrical Engineering, K.K. Wagh Institute of Engineering Education and Research, Nashik.
11. attended Webinar on "Hybrid and Pure Electric Vehicles: An 'Engineering' perspective" on 5th June 2020 organized by Dept of AEIE, GNIT.
12. attended Webinar on "Mr. Subhash Ghai, Director & Producer- Hindi Cinema" on 9th June 2020 organized by JIS group.

3.Mrs.Santana Das, Assistant Professor ,Dept. of AEIE:

1. attended a Webinar on "Machine Learning using Python "
On 28.03.2020, organized by AEIE, GNIT in collaboration with ARDENT Tech. Pvt.Ltd
2. attended an International webinar on "Engineers & Entrepreneurs" on 16-04-2020, organized by AEIE, GNIT
3. attended the online LECTURE ON "The Joy of Teaching" on 19-04-2020, organized by NPTEL.
4. attended National Webinar on "unlocking the lockdown through e-examination" On 20.04.2020, organized by IET, Dr. Rammonohar Lohia Avadh University,Ayodhya
5. attended online Lecture ON "Towards Explainable AI" on 22-04-2020, organized by NPTEL.

- * Faculty Development Program On DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS Organized By Applied Electronics and Instrumentation Engineering From 25th- 29th November, 2019.



AICTE SPONSORED FACULTY DEVELOPMENT PROGRAM



**ON
DIGITAL LOGIC CIRCUITS
AND LINEAR INTRIGATED
CIRCUITS**
25th - 29th November, 2019

Organized by
**Department of Applied Electronics &
Instrumentation Engineering**

Guru Nanak Institute of Technology, Kolkata
An Autonomous Institute under MAKAUT
Affiliated to AICTE
157/F, Nilgunj Road, Sodepur,
Kolkata-700114

Resource Persons

Prof. (Dr.) Amlan Chakrabarti
*Professor and Director, A.K.Choudhury School of Information Technology
University of Calcutta*

Prof. (Dr.) Sunit Kumar Sen
*Ex- Professor
Department of Applied Physics, University of Calcutta*

Dr. Himadri Nath Saha
*Head of the Department, Computer Science, SNEC,
Calcutta University*

Prof. (Dr.) Santanu Kr Sen
Principal, GNIT

Prof. Dr. Debasish De
*Director, School of Computational Sciences
Professor, Dept. of CSE,
MAKAUT, WB*

Topics to be covered

- 1: Linear Integrated Circuits and its Applications
- 2: Operational Amplifiers and Linear Integrated Circuits
- 3: Digital Integrated Circuits
- 4: Integrated Circuit

Committee

Chief Patron: Sardar Taranjit Singh, MD, JIS Group
Patrons : Mr. Simarpreet Singh, Director, JIS Group
: Mr. Amanjot Singh, Director, JIS Group
: Mr. Harjot Singh, Director, JIS Group
: Mr. Anmol Singh, Director, JIS Group
: Mr. U.S. Mukherjee, Dy. Director, JIS Group
: Dr. Asit Guha, Advisor, JIS Group

Advisory Committee

Prof. Arun Kr Mondal, Professor, Dept of ECE
Dr. Sucharita Bhattacharyya, Associate Prof., Physics, Department of ASHU
Dr. Sanjita Roy, H.O.D., Department of ECE
Dr. Mahamuda Sultana, Associate Prof., Department of CSE

Project Monitoring Committee (PMC)

- Chairperson & Subject Expert:
Prof. (Dr.) Santanu Kr. Sen, Principal, GNIT
- Member Secretary & Program Coordinator:
Mrs. Bapita Roy, H.O.D., Applied Electronics & Instrumentation Engineering
- Members & Evaluators:
Dr. Kakali Bandyopadhyay, Associate Prof, H.O.D., Department of FFT
Dr. Baruali Kundu, Associate Prof, H.O.D., Department of EE
Dr. Suman Bhattacharya, Associate Prof., Department of CSE

Organizing Committee

- **Dr. Adhish Kr. Chakrabarty**, Asst. Prof., AEIE, Registrar, GNIT
- **Dr. Paramita Banerjee**, Asst.Prof., AEIE
- **Mrs. Suparna Maity**, Asst.Prof., AEIE
- **Mrs. Santana Das**, Asst.Prof., AEIE
- **Mrs. Nabamita Paul**, TA, AEIE
- **Mrs. Saswati Chatterjee**, TA, AEIE
- **Mr. Mrinmoy Dutta**, TA, AEIE

- GNIT Accounts: Kallol Paul, Santanu Dasgupta, Soumik Jash, Subhankar Bose

Media & Publicity Committee

- Mr. Shantanu Chakravorty, Asst. Prof. Dept. of ASHU

The Organizing Institution

Guru Nanak Institute of Technology was instituted with a vision to empower the aspiring professionals with the technical knowledge and expertise under the angle of JIS Group of Educational initiatives in the year of 2003. The institute offers vari under graduates courses such as, B.Tech (ECE, AEIE, EE, FT, CSE, IT), BCA, BHM, M.Tech (CSE, ECE), MCA. Some of the courses are NBA accredited. Institute is also offering Diploma courses (EE, ETCE). The institute is affiliated to MAKAUT approved by AICTE, accredited by UGC, NAAC. It is located in one of the prime locations in North 24 Parganas near Sodepur, Kolkata.

The Organizing Department

The department of AEIE was established in the year 2003. This department emphasizes to create technical professionals who are keen to take engineering responsibilities with a vast knowledge of entire process, medical instrumentation and power plants – a specialization that has grown leaps and bounds in the recent years. The department is equipped with state-of-the-art laboratories to impart technical skill to the students to make them proficient engineers. The department also encourages students to engage in different extra-curricular y& co-curricular activities to develop personal &

professional ethics and management. Our department is enriched with all senior faculty members who are very much dynamic and enthusiastic. The Vision of the department is to create Electronics & Instrumentation engineers with outstanding technical competency acceptable worldwide to impart research aptitude for societal benefit.

About

Digital Integrated Circuits handle discrete signals such as binary values (0 and 1). These circuits use digital logic gates, multiplexers, flip flops etc. ... Analog Integrated Circuits handle contiguous signals. These are two types: linear integrated circuits (**Linear ICs**) and Radio frequency integrated circuits (RF ICs).

Eligibility

Faculty members / Research Scholars from AICTE approved Engineering college/ Polytechnic College members will be given preference. Interested Engineers from Industries may also apply. The strength permitted is 40 participants. (First come first serve basis)

Registration

No registration fee is required. It will be first cum first serve basis.

Registration Link:
<https://forms.gle/t9K55kxrbv6bfa1EA>

Important Dates

Registration deadline: **19th November 2019**
Intimation of Selected Participants: **29th November 2019**




Rules and Regulations

- 75% Attendance is mandatory for all participants and it will be monitored by the system automatically.
- Participants have to submit day to day feedback and quiz at the end of the session. Feedback cum attendance link will be provided daily basis.
- Participants have to secure minimum 60% Score in the test at the end of STTP.
- E-Certificates will be awarded to the participants after successful completion of the STTP.

Contact Persons

- **Mrs. Bapita Roy**
Program Coordinator
E-mail: head_aeie_gnit@jisgroup.org
Ph: 9231893138
- **Mrs. Suparna Maity**
Registration
E-mail: suparna.maity@gnit.ac.in
Ph: 9432970012
- **Dr. Paramita Banerjee**
E-mail: paramita.banerjee@gnit.ac.in
Ph: 9903222889
- **Mrs. Santana Das**
E-mail: santana.das@gnit.ac.in
Ph: 9674985930

- * Faculty Development Program On Space Vector Modulation for Three Phase Inverter Organized By Applied Electronics and Instrumentation Engineering From 18th-22th May, 2020.

Faculty Development Program
On
Space Vector Modulation for Three Phase Inverter
18th-22th May, 2020
Organized by:
Institute of Engineers (I) Student Chapter

Department of Applied Electronics & Instrumentation Engineering
Guru Nanak Institute of Technology

In collaboration with
ARDENT COMPUTECH PVT LTD

Guru Nanak Institute of Technology
157/F, Nilgunj Road, Panihati,
Sodepur, Kol 114

Chief Patron
Mr. Taranjit Singh, MD, JIS Group

Patron
Mr. Simarpreet Singh, Director, JIS Group
Mr. Amandeep Singh, Director, JIS Group

Advisory Committee
Prof. (Dr.) Annapurna Das, Director, GNIT
Prof. (Dr.) Sisir K Das, Dean, GNIT
Prof. (Dr.) Santanu K Sen, Principal, GNIT

Chairperson
Mrs. Bapita Roy, H.O.D., AEIE, GNIT

Convenor
Mrs. Sanghamitra Layek

Organizing Committee
1. Dr. Adhish Kr. Chakrabarty, Registrar (actg.)
2. Dr. Paramita Banerjee
3. Mr. Sudip Kuila
4. Mrs. Santana Das
5. Mrs. Suparna Maity
6. Mrs. Saswati Chatterjee
7. Mrs. Nabamita Paul
8. Mr. Mrinmoy Dutta

Program Schedule
Registration : 10:00 a.m.
Technical Session I : 10:30 a.m. - 1:00 p.m.
Interactive Session : 1:00 p.m. - 1:30 p.m.
Break : 1:30 p.m. - 2:00 p.m.
Valedictory Session : 2:00 p.m. Onwards

Participants

- Faculty Members
- Technical Staff

Mode of Selection
The filled registration form with self-signature is to be submitted to Registration committee members on the day of seminar. Registration forms are available from the department. Application will be accepted on a first come first serve basis.

No Registration Fee

Time
10:30 a.m. to 1:30 p.m.

Platform
Online

Contact Person
Mrs. Sanghamitra Layek, Asst. Prof., AEIE, GNIT
Ph: 9748134684
Email: head_aeie.gnit@jisgroup.org

6. attended a Leadership talk of Dr. Abhay Jera, Chief Innovation Officer, MHRD IIC, Govt. of India on 26.04.2020, organized by MHRD, IIC, India
7. Attended online Lecture on **“Transforming Medicine”** on 26.04.2020, organized by NPTEL.
8. Attended the India First Leadership Talk of Dr. Abhay Jera, Chief Innovation Officer, MHRD IIC, and Govt. of India with Prof D. P. Singh, Chairman UGC, organized by MHRD’s Innovation Cell on 09.05.2020 organized by MHRD, IIC, India
9. attended the leadership talk of Dr. Abhay Jere, Chief Innovation Officer MHRD, IIC, India with Dr. Pramod Chaudhari, Founder, Chairman, Praj industries ltd on 16.05.2020 organized by MHRD’s Innovation Cell, India
10. attended Leadership Talk of Dr. Abhay Jera, Chief Innovation Officer, MHRD IIC, Govt. of India with Mr. Shridhar Venkat, CEO (Akshay Patra Foundation) on 20.06.2020
Organized by MHRD's Innovation Cell, India
11. Ms. Santana Das, A.P. AEIE participated the one week Faculty Development Programme on “Image Authentication, WSN & IoT” from 22nd June, 2020 to 26th June, 2020 organized by the Department of CSE, JIS College of Engineering, West Bengal in association with CSI Kolkata Chapter.
12. Ms. Santana Das, A.P. AEIE attended training program on “Machine Learning using Python (Beginner's Level)” organized by Computer Science Department, JIS college of engineering from 8th June 2020 to 24th June 2020

4. Mrs Suparna Maity, Assistant Professor, Dept. of AEIE:

1. attended a Webinar on “Machine Learning using Python” on 28.03.2020, organized by AEIE, GNIT in collaboration with ARDENT Tech. Pvt. Ltd

2. attended an International webinar on “Engineers & Entrepreneurs” on 16-04-2020, organized by AEIE, GNIT
3. attended the online lecture “The Joy of Teaching” on 19-04-2020, organized by NPTEL.
4. attended online Lecture ON “Towards Explainable AI” on 23-04-2020, organized by NPTEL.
5. attended online Lecture on “Transforming Medicine “on 26.04.2020, organized by NPTEL.
6. Ms. Suparna Maity, A.P.AEIE, attended Webinar on “Education Roadmap for a New Tomorrow” speaker was prof. anil sahasrabubhe on 29.04.2020 organized by JIS , KALYANI.
7. attended a webinar on ‘Measuring Cosmos’ by Department of Applied Science & Humanities ,Guru Nanak Institute of Technology organised on 4th May, 2020
8. attended webinar on “ NBA Process” by MHRD on 07.05.2020
9. attended Webinar on “Bio-entrepreneurship from theory to a practical success” on 29 & 30th May 2020 Organized by Centre for Molecular and Nanomedical Sciences, International Research Centre (IRC), Sathyabama Institute of Science and Technology, Chennai
10. attended webinar on “Psychological Counseling in collaboration with Mental Health Foundation, Kolkata” organized by MAKAUT,WB on 18.05.2020.
11. attended webinar on " Power System & Systems" by K K Wagh Institute on 26.05.2020
12. VCs' Round Table- Higher Education beyond COVID-19 organised by ABP education on 30.03.2020
- 13 attended leadership talk by Subhash Ghai organized by JIS University on 09.06.2020

14. attended webinar on "Holistic Approach Towards Reactive Power & Harmonic Distortion Management to avail benefits of kVAH billing" , organised by K K Wagh Institute on 30.05.2020
15. attended webinar on " "Beyond the Boundaries: Reinventing Horizons", organised by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur on 30.05.2020
16. attended webinar on "DATA SCIENCE AND APPLICATIONS: PRESENT AND FUTURE", 30.06.2020, organized by MAKAUT, WB

5. Dr. Adhish Kr Chakrabarty, Asst. Prof., AEIE:

1. Dr. Adhish Kumar Chakrabarty, Asst. Professor and Registrar (Acting), attended a session of "15th International Congress on Renewable Energy" on 7th-8th February,,2020, organized by Guru Nanak Institute of Technology
2. Dr. Adhish Kumar Chakrabarty, Asst. Professor and Registrar (Acting), attended a session of "Education Roadmap for New Tomorrow" on 29th April,2020, organized by JIS College of Engineering

6. NABAMITA PAUL: Technical Assistant, JTA, AEIE:

1. Mrs. Nabamita Paul, JTA, AEIE, attended a session on "Quality Assessment of Agricultural Produces - A Machine Vision Approach" on 22.02.2020 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
2. Mrs. Nabamita Paul, JTA, AEIE, attended a session on "The outbreak of COVID-19 outbreaks the Digital Transformation" on 20.03.2020 organized by Guru Nanak Institute of Technology .
3. Mrs. Nabamita Paul, JTA, AEIE, attended a session on " Machine Learning using Python" on 28.03.2020, organized by IE Students Chapter, Department of Applied Electronics and Instrumentation Engineering in collaboration with Ardent Computech Pvt. Ltd.

4. Mrs. Nabamita Paul, JTA,AEIE, attended a session of Dr. Manpreet Manna of AICTE
5. on 06.04.2020 organized by JIS group.
6. Mrs. Nabamita Paul, JTA,AEIE, attended a webinar on “How to Crack the GATE Exam” on 15.04.2020 organized by IE Students Chapter of Department of Applied
7. Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology .
8. Mrs. Nabamita Paul, JTA,AEIE, attended a session on “Engineers & Entrepreneurs” on 16.04.2020 organized by IE Students Chapter of Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology .
9. Mrs. Nabamita Paul, JTA,AEIE, attended a workshop on “Improving Research Planning Skills at Technical Institute!” on 28.4.2020 organized by Elsevier (Science & Technology) Research Solution Sales 14th Floor, Building No: 10B, DLF Cyber City Phase II, Gurgaon
10. Mrs. Nabamita Paul, JTA,AEIE, attended a International webinar on "Hybrid and Pure Electric Vehicles: An ‘Engineering’ perspective" on 05.06.2020 organized by IE Students Chapter of Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology .
11. Mrs. Nabamita Paul, JTA,AEIE, attended a session on "Engineering tomorrow: New
12. fields, Newer prospects" on 13.06.2020 organized by ABP Education
13. Mrs. Nabamita Paul, JTA,AEIE, attended a session on “International Seminar REST-PECEN” on 16.06.2020 organized by RERF, Barrackpore.
14. Mrs. Nabamita Paul, JTA,AEIE, attended a session on “Engineering
15. Redefined" on 16.06.2020 organized by National Instruments.
16. Mrs. Nabamita Paul, JTA,AEIE, attended a session on “Training/ Discussion for Hioki Instruments for JIS Group” on 22.06.2020 organized by Hioki India Pvt. Ltd.
17. Mrs. Nabamita Paul, JTA,AEIE, attended a session on “Training on Machine Learning
18. using Python” from 8th June to 24th June 2020 organized by JIS College of Engineering, Kalyani, Nadia

19. Mrs. Nabamita Paul, JTA, AEIE, attended a session on "Data Science and Applications: Present and Future" on 30.06.2020 organized by Maulana Abul Kalam Azad University of Technology, West Bengal, India.

Mrinmoy Dutta, Technical assistant, AEIE:

1. attended a Webinar on "Quality Assessment of Agricultural Produces – A Machine Vision Approach" on 22.02.2020 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
2. attended a Webinar on "The outbreak of COVID-19 outbreaks the Digital Transformation" on 20.03.2020 organized by Guru Nanak Institute of Technology .
3. attended a "Webinar on Machine Learning using Python" on 28.03.2020, organized by IE Students Chapter, Department of Applied Electronics and Instrumentation Engineering in collaboration with Ardent Computech Pvt. Ltd.
4. attended a "Webinar on How to Crack the GATE Exam " on 16th April 2020, organized by AEIE Department , Guru Nanak Institute of Technology
5. attended a "International Webinar on Engineering & Entrepreneurship "on 16th April 2020, Organized by AEIE Department , Guru Nanak Institute of Technology .
6. attended a "Series of online Webinars on Recent Technologies" from 2nd May 2020 to 7th May 2020, Organized by AEIE Department , Guru Nanak Institute of Technology.
7. attended a "Webinar on : Holistic approach towards reactive power & harmonic management to Avail maximum benefits of kVAH billing "on 30th May 2020 , K. K. Wagh Institute of Engineering Education & Research, Nashik Department of Electrical Engineering.
8. attended a International Webinar on Hybrid and Pure Electric Vehicles: An 'Engineering' perspective "on 5th June 2020, organized by AEIE Department, Guru Nanak Institute of Technology.
9. attended a "Webinar on Introduction to Machine Learning and Its Application" on June 8, 2020 organized by AEIE Department, Guru Nanak Institute of Technology.
attended a Webinar on 'Engineering tomorrow: New fields, Newer

prospects on June 13, 2020 , Organized by ABP Education .

10. attended a training on machine learning using Python – Beginner’s level from June 8th , 2020 to June 24th ,2020 ,organized by JIS College of Engineering, Kalyani.

Saswati Chatterjee, Technical Assistant, AEIE:

1. attended a Webinar on “Quality Assessment of Agricultural Produces – A Machine Vision Approach” on 22.02.2020 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
2. attended a Webinar on “The outbreak of COVID-19 outbreaks the Digital Transformation” on 20.03.2020 organized by Guru Nanak Institute of Technology .
3. attended a “Webinar on Machine Learning using Python” on 28.03.2020, organized by IE Students Chapter, Department of Applied Electronics and Instrumentation Engineering in collaboration with Ardent Computech Pvt. Ltd.
4. attended a “Webinar on How to Crack the GATE Exam ” on 16th April 2020, organized by AEIE Department , Guru Nanak Institute of Technology
5. attended a “International Webinar on Engineering & Entrepreneurship “on 16th April 2020,Organized by AEIE Department , Guru Nanak Institute of Technology .
6. attended a “Series of online Webinars on Recent Technologies” from 2nd May 2020 to 7th May 2020,Organized by AEIE Department , Guru Nanak Institute of Technology.
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9. attended a “Webinar on Introduction to Machine Learning and Its Application" on June 8, 2020 organized by AEIE Department, Guru Nanak

Institute of Technology.

10. attended a Webinar on 'Engineering tomorrow: New fields, Newer prospects on June 13, 2020 , organized by ABP Education .
- 11.** attended a training on machine learning using Python - Beginner's level from June 8th , 2020 to June 24th ,2020 ,organized by JIS College of Engineering, Kalyani.

(July -Dec,2019)

1. Mrs. Bapita Roy, H.O.D.AEIE:

2. 1. attended International Conference on "Frontiers in Engineering, Management and Applied Science (FEMAS-2019)" during 26-27 September 2019 organized by, GNIT
3. 2 . attended " Industry Academia Meet cum Exhibition Waste Management under the guidance of Mahatma Gandhi National Council of Rural Education, MHRD, Government of India" on 7-8 November, 2019, organized by, GNIT
4. 3. attended a session of "IIC 2.0 and ARIIA 2020" on 13th August,2019, organized by Guru Nanak Institute of Technology and MHRD's Innovation Cell.

1. Dr. Paramita Banerjee Assistant Professor ,Dept. of AEIE:

2. 1. attended International Conference on "Frontiers in Engineering, Management and Applied Science (FEMAS-2019)" during 26-27 September 2019 organized by, GNIT
3. 2 . attended " Industry Academia Meet cum Exhibition Waste Management under the guidance of Mahatma Gandhi National Council of Rural Education, MHRD, Government of India" on 7-8 November, 2019, organized by, GNIT
4. 3. attended a session of "IIC 2.0 and ARIIA 2020" on 13th August,2019, organized by Guru Nanak Institute of Technology and MHRD's Innovation Cell.

1. Mrs.Santana Das, Assistant Professor ,Dept. of AEIE :

2. 1. attended International Conference on "Frontiers in Engineering, Management and Applied Science (FEMAS-2019)" during 26-27 September 2019 organized by, GNIT
3. 2. attended "Industry Academia Meet cum Exhibition Waste Management under the guidance of Mahatma Gandhi National Council of Rural Education, MHRD, Government of India" on 7-8 November, 2019, organized by, GNIT
3. attended a session of "IIC 2.0 and ARIIA 2020" on 13th August,2019, organized by Guru Nanak Institute of Technology and MHRD's Innovation Cell.

Mrs. Suparna Maity,Assistant Professor, Dept. of AEIE:

1. attended International Conference on "Frontiers in Engineering, Management and Applied Science (FEMAS-2019)" during 26-27 September 2019 organized by, GNIT
2. attended "Industry Academia Meet cum Exhibition Waste Management under the guidance of Mahatma Gandhi National Council of Rural Education, MHRD, Government of India" on 7-8 November, 2019, organized by, GNIT
3. attended a session of "IIC 2.0 and ARIIA 2020" on 13th August,2019, organized by Guru Nanak Institute of Technology and MHRD's Innovation Cell.

Dr. Adhish Kr Chakrabarty, Asst. Prof., AEIE:

1. Dr.Adhish Kumar Chakrabarty, Asst. Professor and Registrar(Acting), attended a session of "IIC 2.0 and ARIIA 2020" on 13th August,2019, organized by Guru Nanak Institute of Technology and MHRD's Innovation Cell.
2. Dr.Adhish Kumar Chakrabarty, Asst. Professor and Registrar(Acting), attended a session of "International Conference on Frontiers in Engineering, Management and Applied Science" on 26th- 27th September, August,2019, organized by Guru Nanak Institute of Technology.

6. NABAMITA PAUL: Technical Assistant, JTA, AEIE:

1. Mrs. Nabamita Paul, JTA,AEIE, attended Workshop on Advance Microcontroller Programming from 08.07.2019 to12.07.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
2. Mrs. Nabamita Paul, JTA,AEIE, attended Workshop on LabVIEW from 15.07.2019 to19.07.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
3. Mrs. Nabamita Paul, JTA,AEIE, attended a session on “Application of Optical fibre in Instrumentation system” on 05.08.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
4. Mrs. Nabamita Paul, JTA,AEIE, attended a session on "IOT based Smart Control Device" on 07.09.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.

Mrinmoy Dutta, Technical assistant, AEIE:

1. Attended a Workshop on Advance Microcontroller Programming from 08.07.2019 to12.07.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
2. Attended a Workshop on LabVIEW from 15.07.2019 to19.07.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
3. attended a session on “Application of Optical fibre in Instrumentation system” on 05.08.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
4. attended a session on "IOT based Smart Control Device" on 07.09.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.

Saswati Chatterjee, Technical Assistant, AEIE:

1. Attended a Workshop on Advance Microcontroller Programming from 08.07.2019 to12.07.2019 organized by Department of Applied Electronics

and Instrumentation Engineering, Guru Nanak Institute of Technology.

2. Attended a Workshop on LabVIEW from 15.07.2019 to 19.07.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
- 3.
4. attended a session on "Application of Optical fibre in Instrumentation system" on 05.08.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.
5. attended a session on "IOT based Smart Control Device" on 07.09.2019 organized by Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology.

ii) by student:

(Jan -June,2020)

1. 2nd year students attended a Beyond syllabus training on Introduction to MATLAB programming organized by AEIE department by the faculty experts of AEIE department Dr. Paramita Banerjee, Ms. Suparna Maity, Mr. Sudip Kuila from 6th January to 12th January 2020.
2. 3rd year students attended a Beyond syllabus training on IoT based Instrumentation System organized by Department of AEIE in collaboration with Ardent Computech Pvt. Ltd. For in the month of January.
3. All students of AEIE attended an online training on *Machine Learning using Python* has been organized by IE Students Chapter, Department of Applied Electronics and Instrumentation Engineering in collaboration with Ardent Computech Pvt. Ltd. On 28th March 2020.
4. Students attended an International webinar on "Hybrid and Pure Electric Vehicles: An 'Engineering' perspective" has been organized by IE student chapter of AEIE department GNIT on 5th June 2020.
5. 3rd year students attended series of webinar organized by AEIE Dept, on Recent Trends on Instrumentation Like (Bluetooth Technology, Fiber Optic Sensors, Training an ANN, Fuzzy logic Control System, Keys in DBMS, Application of Laser, Virtual Instrumentation, IoT in Home Automation) from 02/05/20 to 07/05/20 on Myperfectice white board.
6. All students of AEIE attended an International Webinar on "Engineers &

Entrepreneurs” was organized by IE Students Chapter of Department of Applied Electronics and Instrumentation Engineering, Guru Nanak Institute of Technology at 10:00 a.m. dated 16th April, 2020.

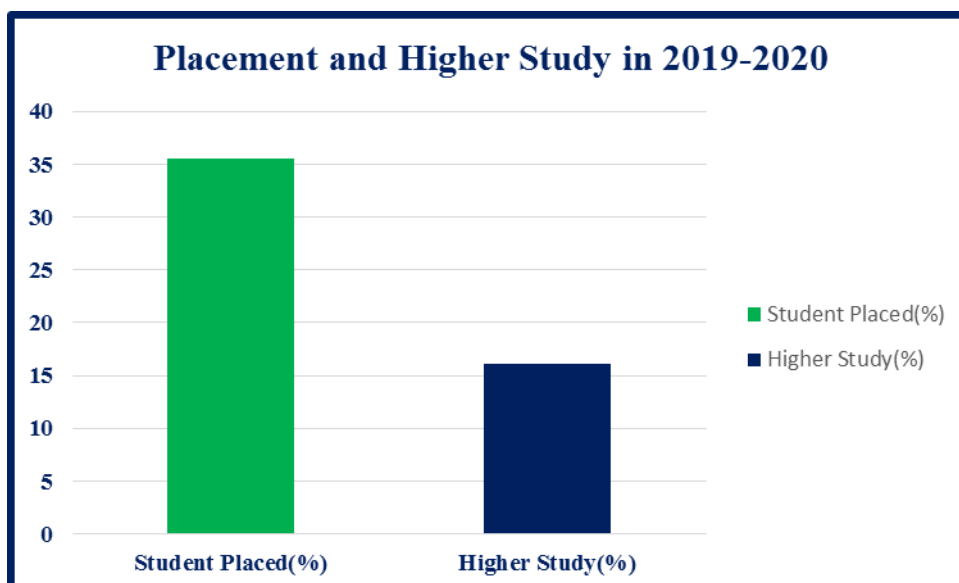
- Attend a “Webinar on How to Crack the GATE Exam ” on 16th April 2020, organized by AEIE Department , Guru Nanak Institute of Technology

(July -Dec, 2019)

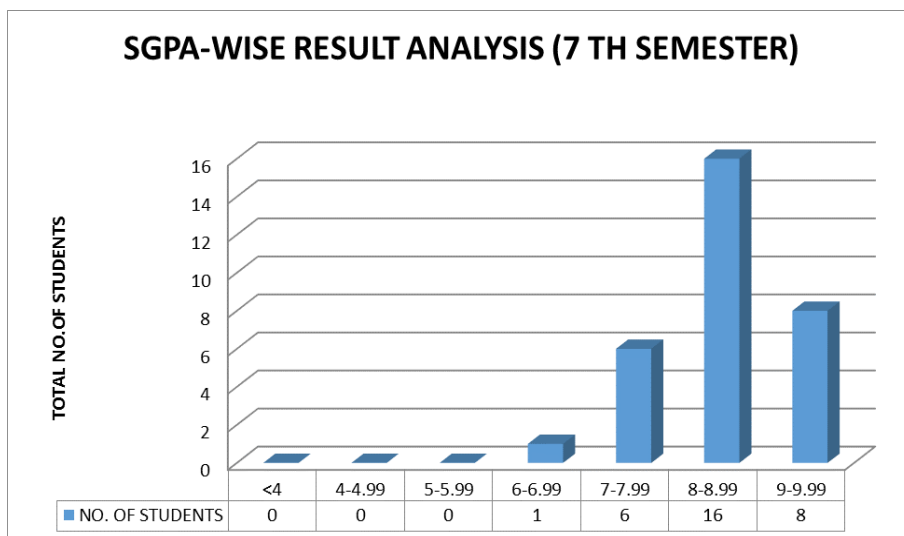
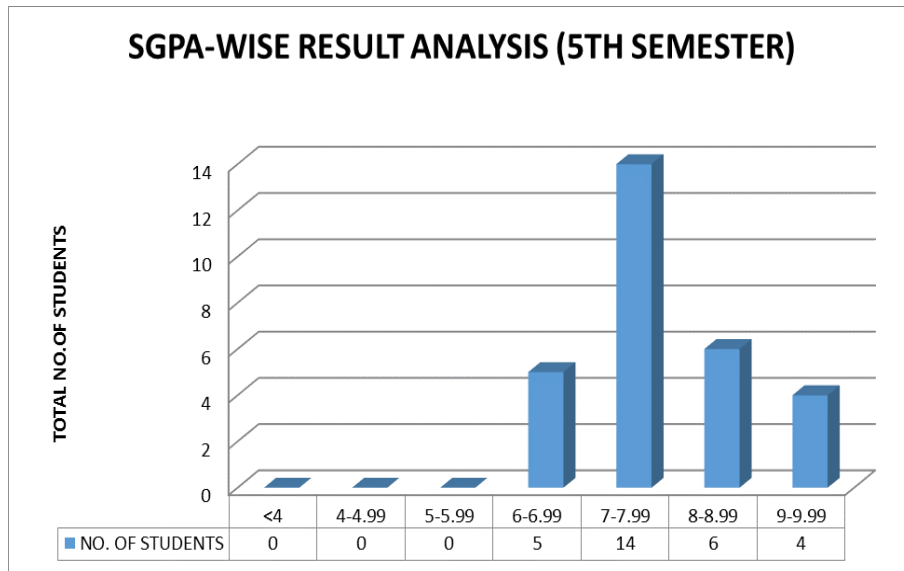
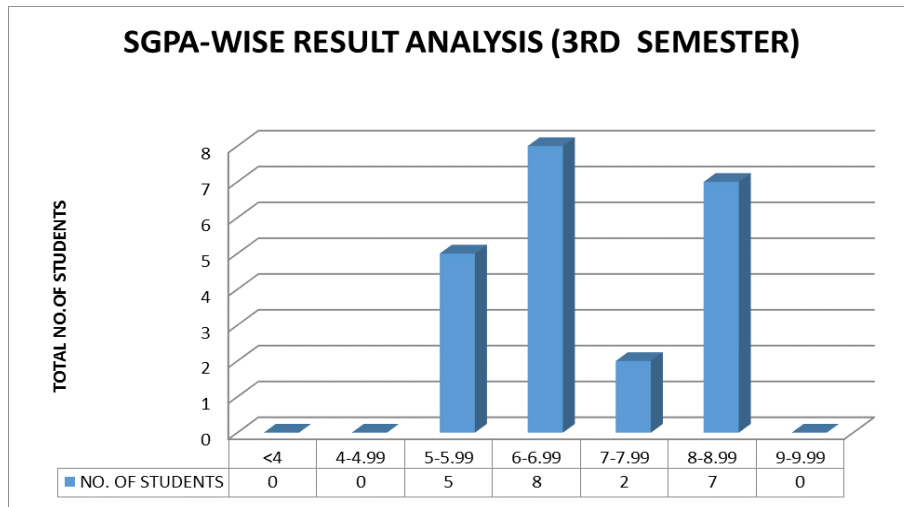
- 3rd year students attended a Beyond Syllabus Training on Microcontroller Programming from 8th to 12th July 2019 .
- 3rd year students attended a Beyond Syllabus Training on Lab VIEW from 15th to 19th July 2019.
- 2nd year students attended Beyond Syllabus Training on C Programming from 8th to 12th July 2019 .
- 2nd year students attended a Beyond Syllabus Training on AutoCAD for Industrial Automation from 15th to 19th July 2019.
- 2nd year students attended a Beyond syllabus training on C++ Programming from 16th to 20th November 2019.
- 3rd year students attend a Beyond syllabus training on JAVA Programming from 16th to 20th November 2019.
- 3rd and 4th year students attended an Industry visit program at Central Glass and Ceramic Research Institute, Kolkata, on 2nd August 2019 organized by AEIE Dept.

All students attended a Workshop on "IOT based Smart Control Device”

Placement and higher studies



Result Analysis





If you judge people, you have no time
to love them .

- *Mother Teresa* -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Hospital Management

ANNUAL REPORT

2019-20

Name of the Department: Hospital Management.

Vision of the Department.

We are determined to create academic excellence that prepare students to fulfill their academic, professional and social goals & can produce the best human resources who are equipped to address the increasing demand and professional necessities of modern healthcare industry.

We are dedicated to form a unique Center of learning with multidisciplinary activities where young students are transformed into trained and knowledgeable professionals, ready to face the challenges of the modern world.

Mission of the Department.

- Our mission is to prepare individuals for leadership roles in healthcare management. Our curriculum provides the knowledge, skills, abilities and values to succeed in healthcare management.
- An emphasis on professional development and career planning in our traditional track prepares early careerists to transition effectively into entry-level management and leadership positions, while an emphasis on application and integration prepares early and mid-careerists in our executive track for positions of increasing responsibility. Our focus on core competencies and lifelong learning assists our alumni with continuing advancement during their careers.

We deliver our program through guidelines by highly qualified faculty & Industry mentors engaged in different reputed healthcare organizations.

Brief Overview of the Department.

Medical establishments such as hospitals, clinics, rehabilitation centers and so on are looked upon as edifices of hope by the diseased and the ill. Like any other business, medical establishments are organized institutions. They follow complex

processes and need efficient manpower to manage these processes.

Hospital management and administration is concerned with the organization, coordination, planning, staffing, evaluating and controlling of health services for the masses. The primary objective is to provide quality healthcare to people and that too in a cost-effective manner. Professional hospital administrators have proven how institutions can be managed proficiently, economically and successfully in a given time period.

There has been seen a remarkable growth in the hospital industry in India, which has led to a great demand and popularity of the hospital management related courses. The requirement of professional administrators in the hospitals is growing briskly mostly because the nature of work in hospitals is quite different from other organizations. Hospitals are expected to deliver quality service 24 x 7 x 365.

The urgent nature of its work and the level of efficiency that is expected have increased the need of well-formulated hospital management courses. Further, various educational institutes have started offering hospital administration courses in India. What's more, a career in hospital management helps you to achieve two goals in life, namely: a good pay package and service to mankind.

HOD's Message.

It gives me immense pleasure to lead the department of BHM. The department of Hospital Management has well qualified and eminent faculty members. The main objective of the department is to make the students professional expert in health care industry.

I would like to thank my faculty members, my dear students for their tireless effort to help the department progress at a very speedy pace

Ms. Debashruti Ganguly

HOD

Hospital Management

Department of Hospital Management

Departmental Achievements

"Kriti Award" Winner.



Ms. Debashruti Ganguly, HOD, BHM dept, achieved special contribution award as KRITI.

Ms. Debashruti Ganguly. (HOD- BHM) also Awarded with Kriti Award 2019 for outstanding Mentorship



Ms. Anurima Roy (2019 pass out) got KRITI award as departmental topper



Department of Hospital Management

Ms.Aastha Bhattachrya got KRITI AWRD as TOPPER of BHM 1st year.



Ms. Piu Chatterjee got KRITI AWARD as TOPPER of BHM 2nd year.



Ms. Katha Chowdhury ,BHM – 2nd Year
got certificate for photography



Mr. Sukanta Chakraborty BHM 2nd Year
Certificate for photography

Departmental Events

Seminar



Department of Hospital Management organized a seminar on A “ Maximizing Performance of Healthcare Professionals”

Adjunct faculty session

In line with institutional policy of harnessing industry expertise into academia, Ms. Tanuka Ghosh, Manager-Operations (Bhagirathi Neotia Women & Child Care Centre) and Adjunct faculty of Dept. of BHM conducted technical session on 04.03.20 and interacted with the students of BHM.



SOCIAL AWARENRSS CREATION

Walk for save water save life ON 16.08.2019

Talent Hunt





On 14th August,2019,Department of Hospital Management conducted a Talent Hunt show for 1st year students during their induction programme.

Alumni Meet



On 8th August,2019,Department of Hospital Management conducted a Alumni Meet for 1st year students during their induction programme.

Industry Mentor Meet



Mr. Suprakash Ghosh (Group Brand Head, Neotia Healthcare Initiative Ltd.), the Industry Mentor for students of the Department of HM, Guru Nanak Institute Of Technology, conducted an interactive session for the 1st year students of BHM on 20th August, 2019.

EXTEMPORE COMPETITION 2019



Ms. Koushiki Manna (BHM 1st Year) stood 3rd in Extempore COMPETITION

Ms. Arnabi Chatterjee (BHM 2nd Year) stood 2nd in Extempore COMPETITION

Mr. Sanjay Kumar Biswas (BHM 2nd Year) stood 3rd in Extempore COMPETITION

Parent Mentor Meet 2019



Department of Hospital Management conducted Parent Mentor Meet on 19th October, 2019

Inauguration of wall magazine



The Wall Magazine of the **Department of Hospital Management** for this semester has inaugurated on 23rd **September, 2019** in the presence of Principal Sir (Prof) Dr. Santanu Kr. Sen, Dr. Adhish Kr. Chakrabarty, Registrar, GNIT..50 no. of students gathered in inauguration time.

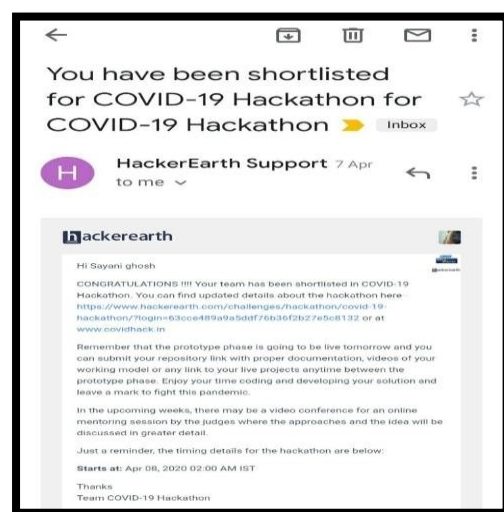
This Wall Magazine was named "THOUGHT" which emphasized on the human creation with critical analysis.



Participation in International Conference Ms. Debashruti Ganguly presented her paper in FEMAS,2019.

Covid-19 HACKATHON:-

This has been conducted from GNIT where everyone is thinking about the betterment or from the prevention of covid-19 through making different gadgets or software where BHM 2nd year student taken lead to participate in this event named as Sanjay Biswas with 3 more First year students in 28thMarch 2020



INDUSTRIAL WEBINAR:

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks if Any
3 rd April 2020	Webinar	On 3 rd April the Speaker was Mrs. Tanuka Ghosh (Manager Operations, Bhagirathi Neotia Women and Child Care Centre). The topic was Quality assurance in hospital services	Both & Students.	To provide industry exposure among students
8 th April 2020		On 8 th April The speaker was Mr. Saugata Banerjee (Alumni, GNIT). The topic was International Marketing.		To make them professionals.
10 th April 2020		On 10 th April the speaker was Mr. Alok Sardar (Asst. Prof. of Future Institute of Engineering and Management), was conducted by Dept of Hospital Management, GNIT.		For finding better opportunities in Healthcare Sectors

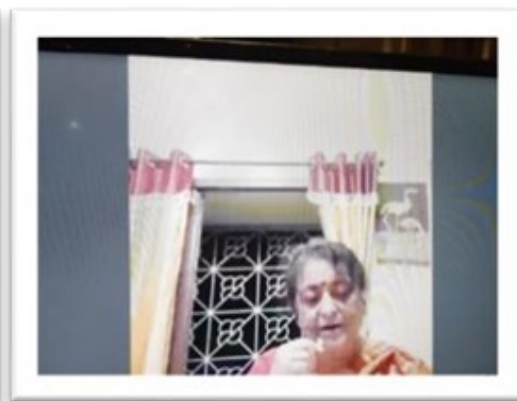
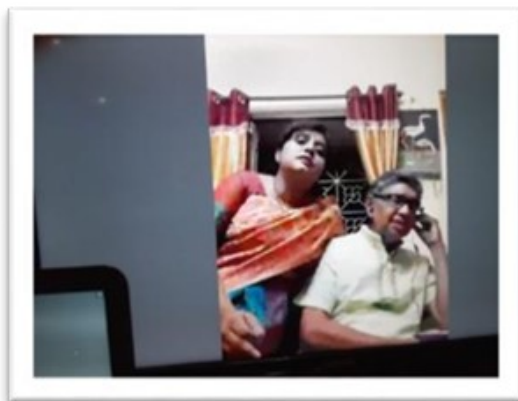
Double Layered sanitized Mask preparation during lockdown:

This is prepared for the prevention of covid-19, in this pandemic situation where most of the poor people are not able to buy so HOI has taken initiative and given the responsibility to **Sanjay Biswas** (student BHM 2nd year). He prepared all the Masks solely, and was appreciated by **Head of the Institution, Faculty member, and Staffs** of GNIT.



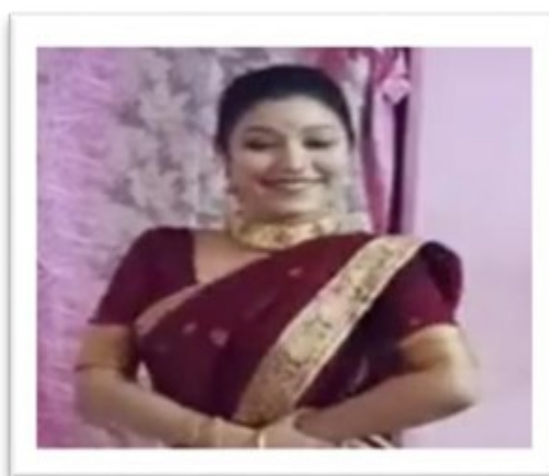
Digital Cultural Night V1.0 & V2.0:-

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks if Any
6 th April 2020	"Digital Cultural Night v1.0"	The Event was conducted with the help of HOI. Prof. (Dr) Santanu kr. Sen & My Perfectice Team.	Both faculties & their family members Debashruti Ganguly (faculty, HOD, BHM), Biswanath Ganguly (Father), Shampa Ganguly (Mother)	To make mentally strong among faculty members & Staffs, GNIT.
11 th April 2020	"Digital cultural Night V2.0"		Subhasree Ray (faculty, BHM), Sekhar Ray (father).	



Felicific V1.0:-

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks
13 th April 2020	Felicific V1.0	This kind of online mega is to be conducted by GNIT to support needy people across India through PM ,CM relief fund.	Students & Faculties .	It was a splendid idea for helping the victims and students are also been encouraged.



Department of Hospital Management

Parent-Teacher Meet:-

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remark
14 th April 2020	PTM conducted for first year Students	Initiative taken by the faculty members to communicate with the parent regarding student's performance in this pandemic.	Parents	It was a great initiative taken by the faculties for the betterment of students and was highly appreciated by parents

Intra - Departmental Extempore Competition:-

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks if Any
22 nd April , 2020	Intra – departmental extempore competition	This activity was conducted by the department to enhance communication skills.	students	A good initiative taken by dept. to enhance communication skills.



INDUSTRIAL WEBINAR:

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks if Any
20 th April, 2020	Webinar	On 20 th April the Speaker was Dr. Ahsim Kumar Dutta from Vasani Eye Care Hospital. The topic was 'GLAUCOMA'.	Both Staffs & Students.	To provide industry exposure among student To make them Professional For finding better opportunities.
1 st May, 2020		On 1 st May The speaker was Dr. Kaushik Sinha from ILS Hospital, Lecturer of George college. The topic was 'Respiratory System Disorder'.		
6 th May, 2020		On 6 th May the speaker was Dr. Rudrarup Gupta. The topic was 'Good Health and Well being are the approach of cognizance for this conquering world.'		
18 th May, 2020		On 18 th May the speaker was Dr. Tamoghna Jana from Shree Balaji Dental College, Chennai. The topic was 'Oral Cancer you & me'.		
30 th May, 2020		On 30 th May, the speaker was Trijit Chowdhury from Curatio Healthcare PVT. LTD. The topic was Pharma Industry & Medical Representatives		

Department of Hospital Management



Participation in FDP:-

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks
27 th April- 2 nd May, 2020	Faculty development Program on recent & future trends in technology	A training has been conducted for the faculties on the topic Impact of emerging technologies	Subhasree Ray (Assistant Prof. BHM)	Improving development of interpersonnel skills
4 th May-6 th May, 2020	Impact of emerging technologies in applied science & engineering, management		Mrs. Debashruti Ganguly (Head of the dept. - Hospital Management)	

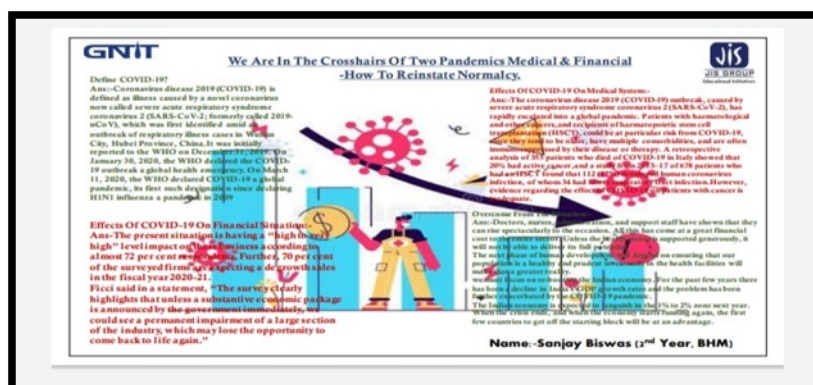
Student Participation:



Sanjay Biswas, Sukanta chakraborty, Rohit Chatterjee, Chandrima Sen, Namrata Prasad,,Aditi Saha; Student of 2nd yr. participated and displayed model on “Bio Waste Management” in the programme of **Industry Academia Meet**, organized by MHRD, held in Nov’19.

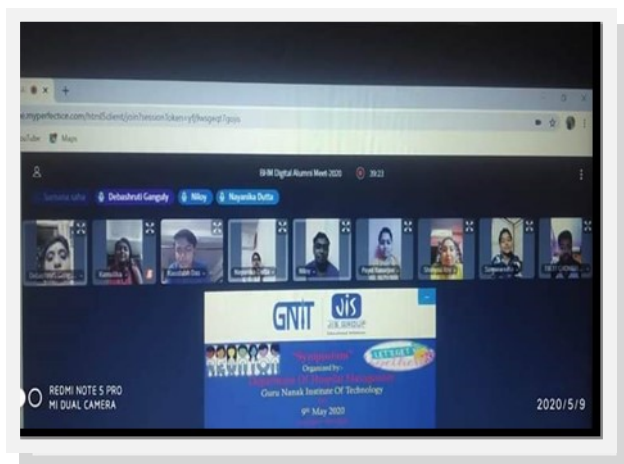
Student Participation in Inter college Competition:-

Date of the Events	Name of the Activities:-	Types of Participants	Remarks if Any
28 th April, 2020	Poster competition on transmissible disease		The rewards of student competitions , whetger tangible or otherwise can help to achieve educational & professional goals.
1 st May, 2020	Poster competition (Techno India)	Sanjay Biswas, BHM 2 ND Year	



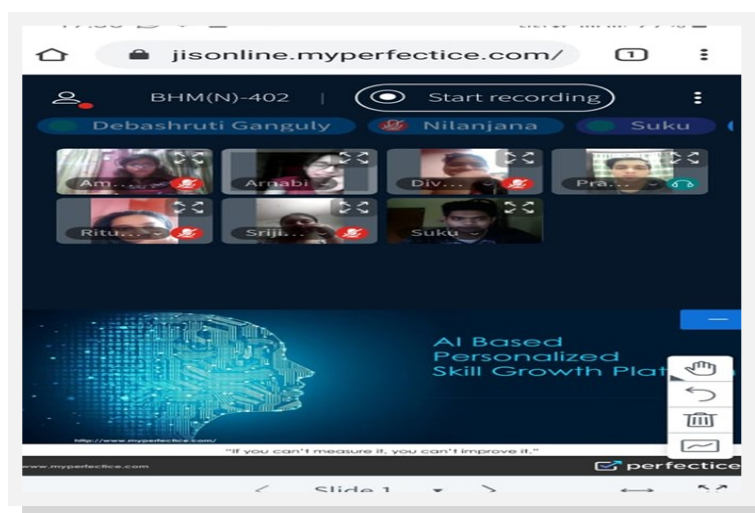
Alumni - meet:-

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks if Any
9th May, 2020	'Symposium' Alumni meet	A get together was conducted by the dept. some alumni were invited to spend the evening together.	Students & faculties	Juniors got some pathways of learning,



PEER Assisted Learning:-

Date of the Events	Name of the Activities:-	A brief note regarding the event	Types of Participants	Remarks
22th May, 2020	PEER assisted learning	It was a innovative learning process to enhance the communication skills , as well as time management of students.	Students	It was a brilliant step taken by faculties.



CSI - WEST BENGAL STATE STUDENT CONVENTION



Mr. Rohit Chatterjee, Mr. Pratim Chatterjee and Mr. Sanjay Kumar Biswas got prize and certificate for CSI - WEST BENGAL STATE STUDENT CONVENTION

Published Departmental News Letter Memorandum, Vol-3 in March'20

Published Departmental News Letter Memorandum Lockdown special edition
April'20

Published Departmental News Letter Memorandum Lockdown special edition
July'20

Placement and higher studies

Branch: BHM

Pass-out Year-2019

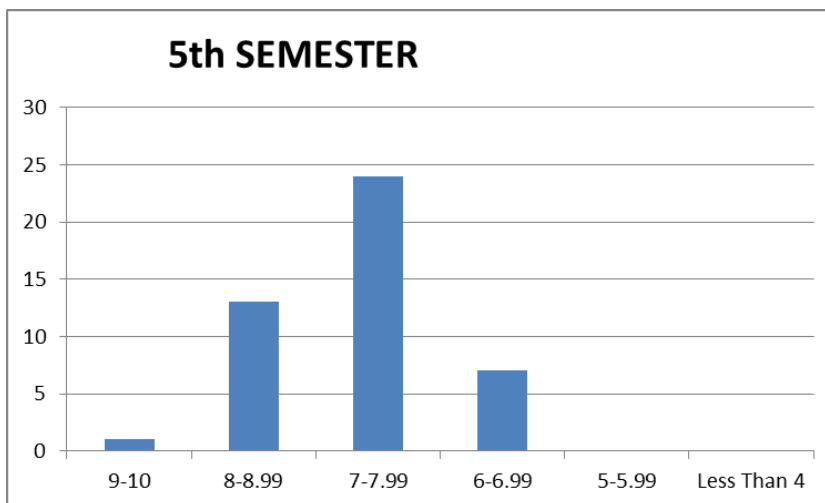
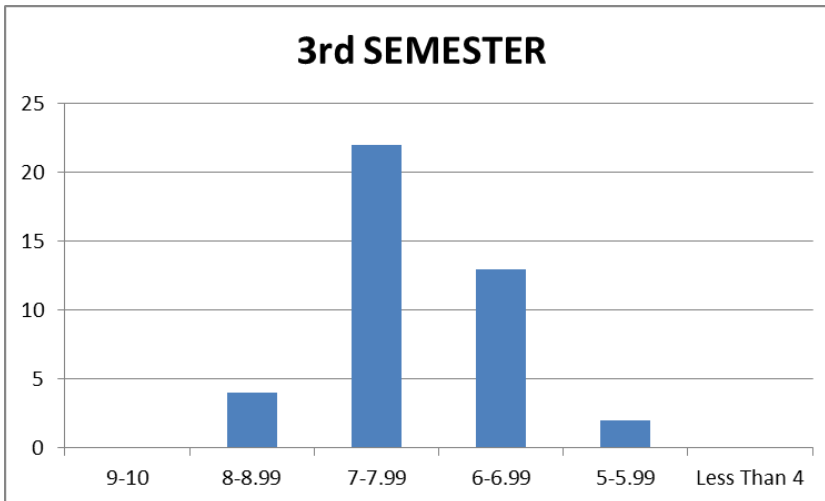
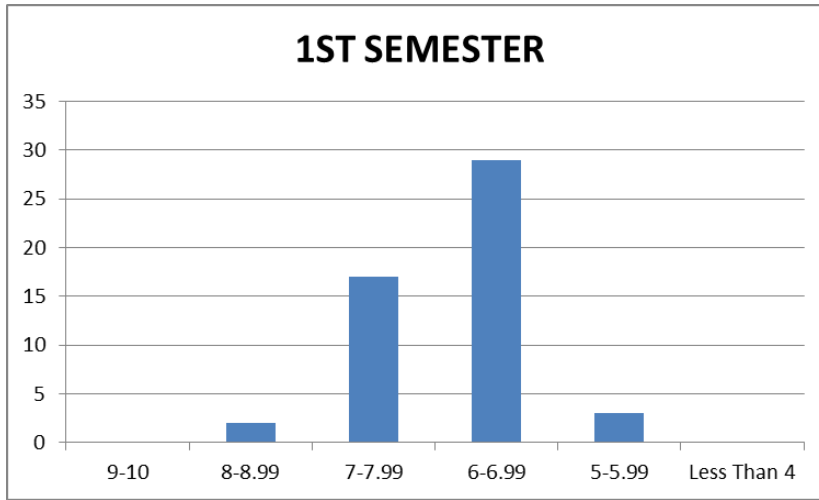
Total no. Of Students passed in this year: 54

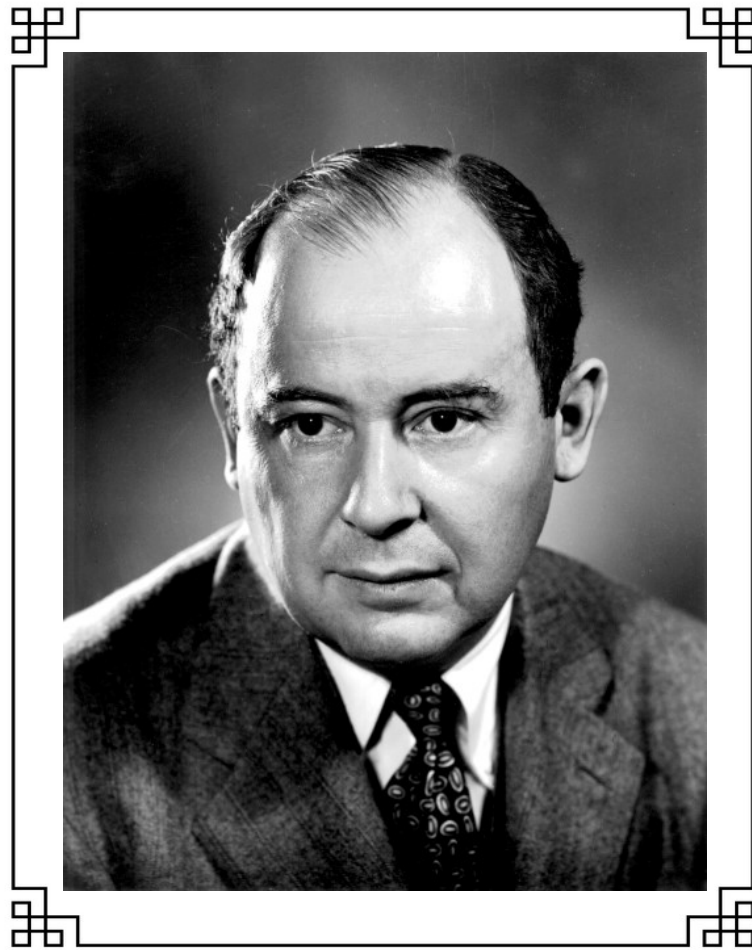
Total no. Of Students placed by T& P cell : 00

Total no. Of Students Placed by Dept/Off campus: 33

Total no. Of Students gone for higher studies: 10

Result Analysis





There's no sense in being precise when
you don't even know what you're
talking about.

- John von Neumann -

GURU NANAK INSTITUTE OF TECHNOLOGY

Department
of
Computer Applications

ANNUAL REPORT

2019-20

Name of the Department: Food Technology

Vision of the department

The vision of the Department is to be a nationally and internationally recognized school of Food Technology by producing competent food technologist with respect to teaching, research, entrepreneurship and extension endeavors leading towards sustainable growth of the state, nation and service of the society and humankind.

Mission of the department

- * To achieve its own vision the Department of Food Technology is committed to
- * Provide high quality teaching to foster international standard graduate
- * Motivate the students of the Department to face challenges in their professions- industrial, academic, R&D activities
- * Generate knowledge through research as well as through interaction with industries and academia so that the students of the Department can take part in the interdisciplinary fields.
- * Inspired the students of the Department to the sustainable development of the nation and society through professionalism, education, research, public and social service.

PEO

- * To develop the ability to apply knowledge of Mathematics, Science, Computing and basic engineering by including the ability to design, analyze and interpret data.
- * To develop ability to use modern techniques, skills and engineering tools necessary in Food Technology in global and social context.
- * To create the knowledge of professional and ethical responsibilities.
- * To make the ability to communicate effectively to function in multi-disciplinary team.
- * To develop a knowledge of contemporary issues and ability to engage in life-long learning.

Program Outcomes

- * **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- * **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- * **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- * **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- * **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- * **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

- * **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- * **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- * **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- * **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- * **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Brief Overview of the Department.

Department of Computer Applications is devoted to study and research. It runs two courses MCA (under Autonomy) and BCA under MAKAUT. The combination of competent and vibrant faculty members, modern infrastructure and technical resources give an edge to the young technocrats.

HOD's Message.

The Department of Computer Applications started its journey in the year 2007 with MCA stream only. Next year, in 2008 BCA program was started. We are fortunate to be the choice of most of the stake holders. The Department of CA believes in excellence in education and innovation. It gives best possible placement to students. Teacher-student relationship is a matter of pride for us. Different Seminars, Workshops, Webinars, Extra-curricular and Co-curricular activities are performed throughout the year. This helps the young minds grow in diverse dimensions beyond their academics. I wish all the success to each and every student and their very bright future.

Mr. Chiranjeet Dutta

HOD

Computer Application

Departmental achievements

Student's achievements :

Pradipta Das :

Got acknowledgement and was awarded as Indian White Hat Hacker from Axis Bank by pointing out their technical fault in net banking site.

Got acknowledgement and was award as Indian White Hat Hacker from OnePlus for pointing out the vulnerability in their website.

Department of Computer Applications

Kushal Saha :

Secured 3rd position in Rhythm Battle Solo Singing Competition in IRIS'19

Rahul Dev Sarkar :

Speaker in International World camp Meet 2019 at Kathmandu, Nepal Speaker in International World camp Meet 2019 at Dhaka, Bangladesh Founder and CEO at Peergrowth Technologies, Kolkata



Neha Vishwakarma :

Selected as Student Ambassador of Internshala from GNIT Got Elite certificate from NPTEL in Programming in C.

Department of Computer Applications

Arka Das : Secured 3rd position in “Mridang 2019” at JIS University, Kolkata.

Shalini Acharya : Secured 2nd position in “ANAKHRONOS” at Techno India



Gobind Deep Singh : His achievement in **Cyber Activity and Ethical Hacking**, Registered GNIT's name in

MakeMyTrip Hall of Fame and he earned a bounty of **Rs. 30,000 from MMT**, hacked MMT and was able to get free gift, book air tickets, acquire complete packaged tour of MMT, he reported it to MMT and they registered our College's name as a mark of acknowledgement.

Amrik Ghosh : Selected as ISP-18 from GNIT by Internshala

Kumarjit Ghosh , Sharaya Biswas , Raj Pratim Banik , Koushik Roy, Amrik Ghosh : They have participated in Workshop Series at IIT Kharagpur on Artificial Intelligence with Machine Learning.

Mriganka Sekhar Ganguly : Mriganka Sekhar Ganguly (Alumni of the Dept of Computer Applications) was selected as Jury member for Felicific v1.0

Faculty's achievements :

Mr. Chiranjib Dutta : **SPOC** for SWAYAM NPTEL LOCAL CHAPTER **MENTOR** of NPTEL online courses Successfully completed Mentorship of 37 students out of which 19 students scored more than 90% marks. Received Appreciation letter from NPTEL.



Mrs. Somalina Chowdhury :

- * **PhD enrolled** from MAKAUT (WBUT)
- * Got Elite certificate from NPTEL in Programming in C++
- * Got Elite certificate from NPTEL in Introduction to Research
- * Got Elite certificate from NPTEL in Object Oriented Analysis and Design
- * Got certificate from NPTEL in Software Engineering
- * Awarded NPTEL Believer Certificate for successfully completing 04 courses in one semester
- * Submitted project idea “Nayya Bharat” in Idea-O-Meter. The Project got approval and funding

Mrs. Dola Saha :

Submitted project idea “Online crime reporting system” in Idea-O-Meter. The Project got approval and funding.

Departmental events

- * **Department of Computer Applications has organized a “Entrepreneurship development Program”** for students of BCA and MCA on 13.08.2019. Mr RD Sarkar, founder of PeergRowth Technologies shared his views on entrepreneurship with the students.



- * **Department of Computer Applications has organized a “Alumni – Entrepreneur Meet”** for students of BCA and MCA on 13.08.2019. Mr Abhinaba Chakraborty, Senior Software Engineer & Analyst – Capgemini, shared his views on the topic with the students.
- * **Department of Computer Applications has organized a One Day seminar on “Emerging Cloud Technologies”** for students of BCA and MCA on 31.08.2019. Mr Dipankar Saha, Senior Data Architect, CTS delivered his lecture on the topic.



- * **Department of Computer Applications has organized a One Day seminar on “Technology, Employability and Future Trend : Big Data”** for students of BCA and MCA on 22.02.2020. Mr Abhisekh Ranjan Jha, Full Stack Developer, CTS, delivered his lecture on the topic.

Department of Computer Applications

- * **Department of Computer Applications has organized a One Day Industry Expert Meet** for students of BCA and MCA on 28.02.2020. Mr Rajan Banerjee, Solution Engineer, SendBird Technologies, **Seoul, South Korea** delivered his lecture and interacted with students.



- * **Department of Computer Applications has organized a One Day seminar on "Python with Machine Learning"** for students of BCA and MCA on 04.03.2020. Mr Sayantan Chakraborty from **National Institute of Industrial Training, Kolkata**, has delivered his lecture on the topic.



Department of Computer Applications

- * Department of Computer Applications has organized a One Day Webinar on “Cyber Security and Ethical Hacking” for students of BCA and MCA on 30.03.2020. Mr Soumya Raha, Technical Expert from Ardent Computech Pvt. Ltd. has delivered his lecture on the topic.



Webinar on **Cyber Security & Ethical Hacking** for Pre-Final year students of BCA, GNIT

Organized by Dept. of Computer Applications, GNIT in collaboration with Ardent Computech Pvt. Ltd, Kolkata

30/03/2020 (Monday)
11.00 am - 12.30 pm
Register by ONLINE

Contact : 98745 64589



Webinar on **PHP with Angular JS** for the Pre-Final year Students of BCA, GNIT

Organized by - Dept. of Computer Applications Guru Nanak Institute of Technology

Session : 1st April (Wednesday) 2020 @ 12.15pm
Register ONLINE before 10.00am, 1st April 2020
Registration link - <https://bit.ly/2UqsPZR>

Steps to join the Online Session -
1. Click the link and register for the online class.
2. Install the Application "GoToWebinar" from Google Play Store.
3. Session ID is " 623683995 ".

Contact :
Somalina Chowdhury, 98745 64589
TechTree Associate, 82500 61461

- * Department of Computer Applications has organized a One Day Webinar on “PHP with Angular JS” for students of BCA and MCA on 01.04.2020. Mr Abhisekh Ranjan Jha, Full Stack Developer, CTS has delivered his lecture on the topic.
- * Department of Computer Applications has organized a One Day Webinar on “PHP with Angular JS - Day 2” for students of BCA and MCA on 07.04.2020. Mr Abhisekh Ranjan Jha, Full Stack Developer, CTS has delivered his lecture on the topic.
- * Department of Computer Applications has organized a One Day Webinar on “PHP & MySQL” for students of BCA and MCA on 10.04.2020. Mr Arnab Chakraborty, Technical Expert from Ardent Computech Pvt. Ltd., has delivered his lecture on the topic.

Department of Computer Applications

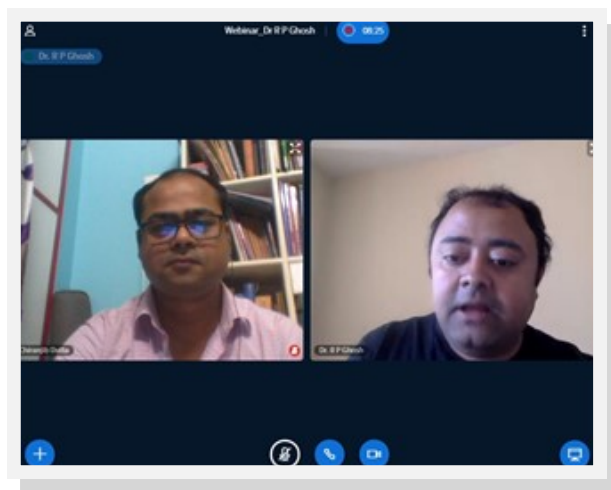
Department of Computer Applications has organized a One Day Webinar on “Web Development using PHP, JS, CSS & HTML” for students of BCA 2ns semester on 11.04.2020. Mr Arnab Chakraborty, Technical Expert from Ardent Computech Pvt. Ltd., has delivered his lecture on the topic.



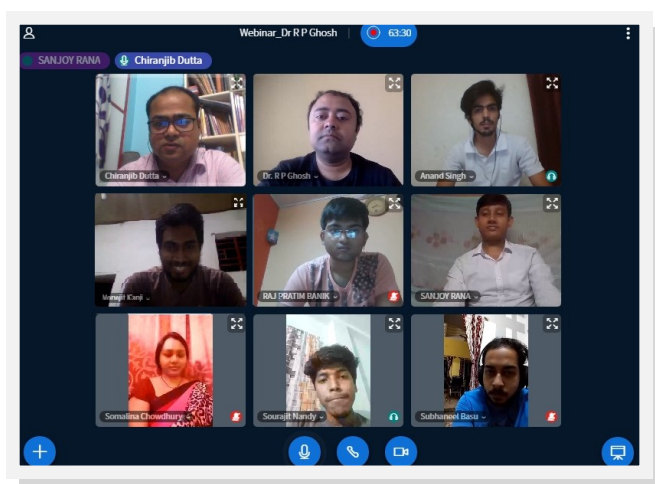
The poster is for a webinar titled "Webinar on Web Development using PHP, JS, CSS & HTML" for first-year BCA students at GNIT. It is organized by the Department of Computer Applications. The session is on 11th April (Saturday) 2020 at 4:00pm. It includes a registration link, steps to join the session, and contact information for Somalina Chowdhury.

Webinar on
Web Development
using **PHP, JS, CSS & HTML**
for the First year students of BCA, GNIT
Organized by -
Dept. of Computer Applications
Guru Nanak Institute of Technology
Session : 11th April (Saturday) 2020 @ 4.00pm
Register **ONLINE**
Registration link -
<https://global.gotomeeting.com/join/368372981>
Steps to join the Online Session -
1. Click the link and register for the online class.
2. Install the Application "GoToMeeting" from Google Play Store.
3. Access Code is " 368-372-981 ".
Contact :
Somalina Chowdhury, 98745 64589

Logos for HTML, JS, CSS, and php are displayed at the bottom.



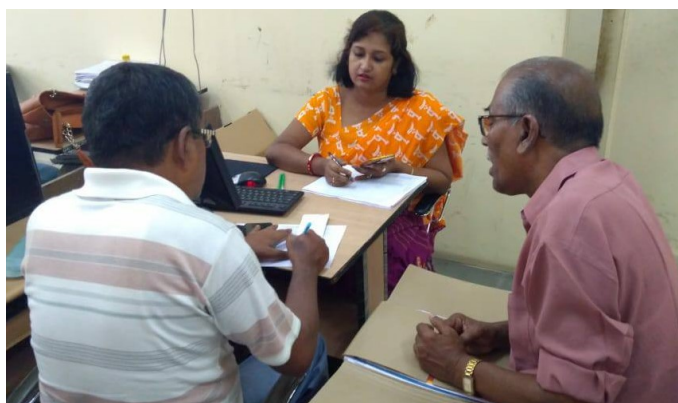
* Department of Computer Applications has organized a One Day International Webinar on “Machine Learning for Beginners” for students of BCA and MCA on 22.04.2020. Dr Riddhi Pratim Ghosh, Post Doctoral Fellow, Dept of Statistics, University of Pennsylvania, Philadelphia, USA has delivered his lecture on the topic.



- * **Department of Computer Applications has organized a One Day Industry Expert Meet** for students of BCA and MCA on 12.05.2020. Technical experts from reputed companies of Kolkata participated in the program and represented their organizations like - ARDENT Computech Pvt. Ltd., TechTree Technologies, National Institute of Industrial Training, Micropro etc.



- * **Department of Computer Applications has organized Parent-Mentor Meet** for the students of BCA and MCA on 19.10.2019.



- * **Department of Computer Applications has organized online Parent-Mentor Meet** for the students of BCA and MCA as per following details.

Department of Computer Applications

Stream	Semester	Mentor	Date of PTM
BCA	2nd	Mrs Dola Saha	17.04.2020
BCA	4th	Mrs Somalina Chowdhury	15.04.2020
BCA	6th	Mrs Dola Saha	15.04.2020
MCA	4th	Mrs Dola Saha	15.04.2020



- * The Wall magazine "SPANDAN" (7th edition) of the Department of Computer Applications has been published on 13.03.2020, in presence of Honorable Principal Sir, HOD, faculty members and students. We convey our sincere thanks and regards to each and every one for their cooperation and support.
- * Students from Department of Computer Applications has participated in Tessaract 2020 for Hardware Model competition and presented their innovative ideas.

Department of Computer Applications



- * Department of Computer Applications has published the Departmental News Letter “The Challenge” during lockdown period. Two editions of the News Letter are published.



- * **The Challenge v2.0 :**
Department of Computer Applications has organized the Annual Picnic on 09.02.2020 at Kanchrapara, N 24 PGS. Students of the Department along with faculties participated in the program. This year few alumni also joined the program.



* **Department of Computer Applications has celebrated Ravindra Jayanti on 09.05.2020.** Students of the department performed different cultural events on the day.

* **Teachers' Day Celebration:**

The students of the Department celebrated Teachers' Day on 5th September

Department of Computer Applications

2019 at Guru Nanak Institute of Technology.

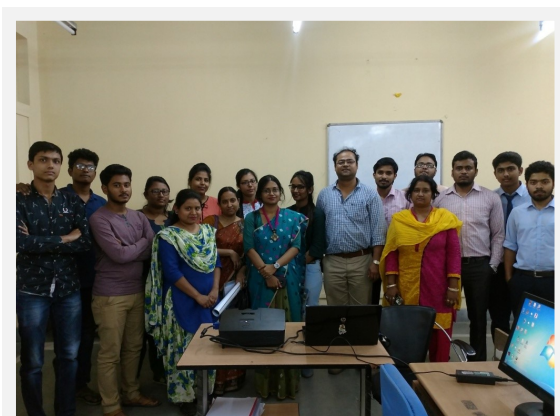


Department of Computer Applications

Department of Computer Applications has organized a 2 weeks IT Base Training Programme for 2nd Year students of BCA from 8th July - 19th July 2019.



Induction & Orientation Program for BCA (Batch 2019-22)



Department of Computer Applications

Result Analysis

Result Analysis : MCA 3 rd Sem (Autonomy)								
Stream	MCA	Sem :	3 rd	Year:	2 nd		Session :	2019-2020
1) No. of Students Appeared in Examination								16
2) No. of students successfully Completed without any Supplementary								16

Result Analysis : MCA 3 rd Sem 2019-20 (MCA under Autonomy)		
MCA Sem - 3		
Grade (SGPA)	No. of Students	% of Students
9-10.0	1	6.25
8-8.99	5	31.25
7-7.99	8	50
6-6.99	2	12.5
5-5.99	0	0
4-4.99	0	0
Less than 4	0	0
Total	16	100

Result Analysis : MCA 5 th Sem (Autonomy)								
Stream	MCA	Sem :	5 th	Year:	3 rd		Session :	2019-2020
1) No. of Students Appeared in Examination								5
2) No. of students successfully Completed without any Supplementary								5

Result Analysis : MCA 5 th Sem 2019-20 (MCA under Autonomy)		
MCA Sem - 5		
Grade (SGPA)	No. of Students	% of Students
9-10.0	2	40
8-8.99	3	60
7-7.99	0	0
6-6.99	0	0
5-5.99	0	0
4-4.99	0	0
Less than 4	0	0
Total	5	100

Department of Computer Applications

Result Analysis : BCA 1st Sem (MAKAUT)

Stream	BC A	Sem :	1 st	Year :	1 st	Session :	2019-2020
1) No. of Students Appeared in Examination							59
2) No. of students successfully Completed without any Supplementary							27

Result Analysis : BCA 1st Sem 2019-20 (under MAKAUT)

BCA Sem - 1		
Grade (SGPA)	No. of Students	% of Students
9-10.0	1	3.7
8-8.99	9	33.33
7-7.99	12	44.44
6-6.99	5	18.52
5-5.99	0	0
4-4.99	0	0
Less than 4	0	0
Total	27	100

Result Analysis : BCA 3rd Sem (MAKAUT)

Stream	BC A	Sem :	3 rd	Year :	2 nd	Session :	2019-2020
1) No. of Students Appeared in Examination							57
2) No. of students successfully Completed without any Supplementary							48

Result Analysis : BCA 3rd Sem 2019-20 (under MAKAUT)

BCA Sem - 3		
Grade (SGPA)	No. of Students	% of Students
9-10.0	0	0
8-8.99	13	27.08
7-7.99	27	56.25
6-6.99	8	16.67
5-5.99	0	0
4-4.99	0	0
Less than 4	0	0
Total	48	100

Department of Computer Applications

Result Analysis : BCA 5th Sem (MAKAUT)

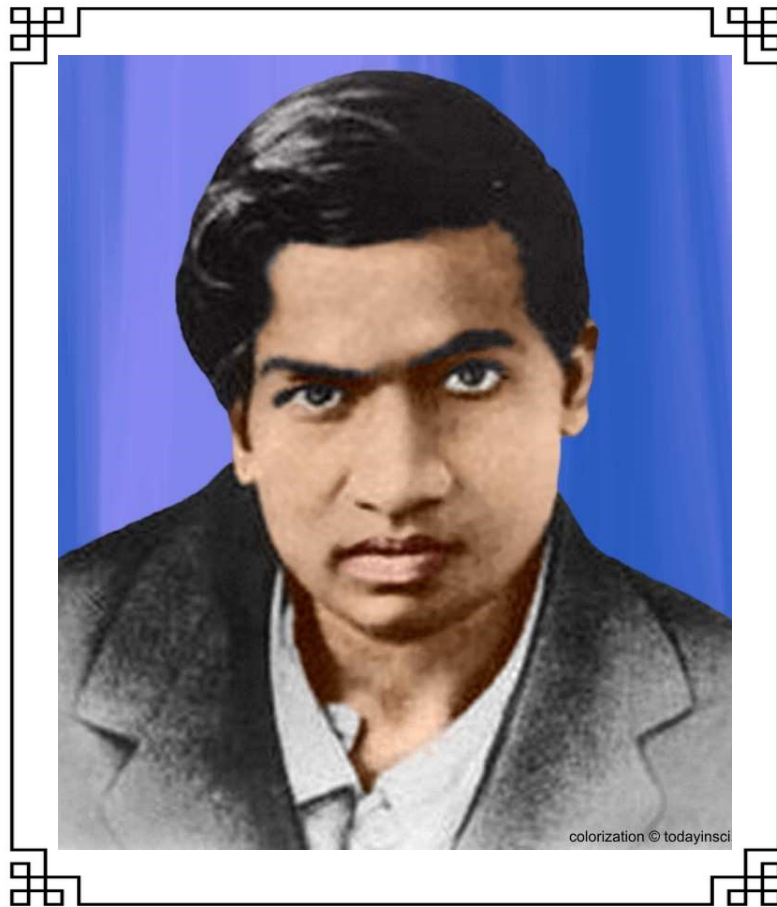
Stream	BCA	Sem :	5 th	Year :	3 rd	Session :	2019-2020
1) No. of Students Appeared in Examination							52
2) No. of students successfully Completed without any Supplementary							52

Result Analysis : BCA 5th Sem 2019-20 (under MAKAUT)

BCA Sem - 5		
Grade (SGPA)	No. of Students	% of Students
9-10.0	1	1.92
8-8.99	22	42.31
7-7.99	27	51.92
6-6.99	2	3.85
5-5.99	0	0
4-4.99	0	0
Less than 4	0	0
Total	52	100

Placement and higher studies

Stream	MCA	BCA
Total students	5	52
Higher study	--	12 (Projected)
Entrepreneurship	0	2
Placed	3	18



An equation means nothing to me
unless it expresses a thought of God.

- Srinivasa Ramanujan -

GURU NANAK INSTITUTE OF TECHNOLOGY

Research & Publications

ANNUAL REPORT

2019-20

Grants Received & Applied

Nature of the Project	Name of PI	Duration	Name of the funding Agency	Total grant sanctioned
Major projects FIST	Dr. Sunipa Roy	5 years	DST	60,00000
Major projects MODROBS	Dr. Sunipa Roy	2 years	AICTE	17,65,000
Major projects TARE	Dr. Anindita Ganguly	3 years	SERB,DST	18,30,000
STTP	Dr. Sucharita Bhattacharya	9 months	AICTE	2,98,000/-
Seminar Grant	Ms. Suparna Karmakar	1month (2days seminar)	DSTBT, Govt. of WB	50,000/-
TGS	Dr. Sisir Kr. Das	6 month	AICTE	1,29,000/-
Seminar Grant, AICTE	Mrs. Bapita Roy	6 month	AICTE	4,50,000/-

Patent filed

3.4.4 Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Agro photovoltaic system (APV) - A promising solution of land Employment along with the Renewable Energy provided by the Agricultural Division	Filed	201931049881	04/12/2019
Title: N-QCM D sensor	Filed	201931049899	04/12/2019
System Identification and Modelling Approach to Identify Diseases using EMG signal Classification	Filed	201931049882	04/12/2019.
Dual Condenser Distillation System	FER received and hearing for registration complete	201831009705	04/12/2018
Fire Fighting System	Filed	201931049902	04/12/2019
IOT and ML based AC and DC voltage controlling and electrical parameter measurement	Filed	201931049917	04/12/2019
Design and Development of Real-Time and Low-Cost Arduino based Electronic Voting Machine (EVM)	Filed	201931049918	04/12/2019
Anti-Puncture System for Light Weight Motor Vehicle (APSLWMV)	Filed	201931049883	04.12.2019

Patent filed

3.4.4 Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Design of Exo-arm for physically disabled persons	Filed	201931049903	04/12/2019
A Working Prototype of Smart Solar Air Cooler with Auto Water refill and high Air-Quality Index (AQI) Features.	Filed	201931049919	04/12/2019
Radio Controlled Unmanned Derrick	Filed	201931059922	04/12/2019
Astute Trash Barrel	Filed	201931059923	04/12/2019
Green Power generation for Rural Development	Filed	201931049901	04/12/2019
NQCM D sensor	Filed	201931049899	04/12/2019
A CPW fed ring patch Antenna	Filed	201931049897	04/12/2019
Automatic Patrolling Machine	Filed	201931049898	04/12/2019
Lateral Micro heater for Gas sensor Application	Filed	20193104989	04/12/2019
A robotic system having accelerometer sensor	Published	201831009704 A	16/03/2018
Antioxidant Extract from Peanut	Published	201831009709	06.04.2018

Patent filed

Patent Details	Patent status	Patent Number	Date of Award
Corn Pith: A potential source of polyphenols and dietary fibre in food fortification	Filed	201931049920	04.12.2019
Microencapsulated starch beads enriched in natural antioxidants	Filed	201931049921	04.12.2019
Microcontroller Based Mobile Controlled Smart B(boil)-S(slice)-C (crush)-M(mix) Quadra Combo Jar for preparing Homemade fruit based delicious Firni-Kheer Dessert	Filed	201931049887	04.12.2019
Communication with Dynamic Arm Motion using Fuzzy Control Algorithm for Housekeeping	Filed	201931049884	04.12.2019
SFC-Smart Food Container with ATQMS-Auto Taste and Quality Measurement System	Filed	201931049885	04.12.2019
Automated categorization of posts based on comments and emojis using novel Post Ranker and Post Prediction Model	Filed	201931049888	04.12.2019
Mobile Controlled Microcontroller based Four in One Pain Soothing Combo Belt that comprising of PROM-Pain-Relief-Ointment-Massager and MRV-Muscle-Reluctant-Vibrator after providing WCHFT-Warm-Cool-Hydro-Fomentation-Therapy.	Filed	201931049886	04.12.2019

FACULTY PUBLICATION

FACULTY PUBLICATION SUMMARY BREAKUP (2019 TO 2020)

2019-20	CSE	0	0	9	21	30
	ECE	0	0	16	17	33
	AEIE	0	0	1	8	9
	EE	0	0	2	33	35
	IT	0	0	0	9	9
	ASH	0	0	3	4	7
	FT	0	0	7	15	22
	CA	0	0	1	0	1
		0	0	40	107	147

DEPARTMENT: ECE

International Journal

Anurima Majumder, S.K.Das, A.Das , "A CPW fed modified ring patch antenna with DGS for multi-frequency and wide band wireless communications", Accepted in International Journal , International Journal of Modern Engineering and Research Technology, UGC approved, IF 0.9,3rd October 2019

Anurima Majumder, S.K.Das, A.Das,"Ultra wideband CPW fed patch antenna with fractal elements and DGS for wireless application", Progress in electromagnetic research (PIER C), September, 2019 Vol 94 , pp 131-144, IF 2.9, SCOPUS Indexed.

Antara Ghosal, S.K.Das, A.Das, "Multifrequency Rectangular Microstrip Antenna with array of L-slots", AEU- International Journal of Electronics & Communications, November, 2019, Volume 111, IF 2.853, SCOPUS Indexed.

Kaushik Roy et al., "Anticoagulant, Thrombolytic and Antibacterial Activities of *Euphorbia*

acruensis Latex-mediated Bioengineered Silver Nanoparticles", Green Processing and Synthesis, Volume:8, Page: 590-599, July 2019 (SCI Impact Factor-1.21).

Kaushik Roy et al., "Semiconducting Behaviour of Metal Thin Film composed of Green Synthesized Silver Nanoparticles", IEEE Xplore Digital library, 10.1109/DEVIC.2019.8783229, August 2019.

Anurima Majumdar, Antara Ghosal, "IOT Based Auto-Irrigation System for Agriculture", published in International Journal of Emerging Science and Engineering (IJESE) ", July 2019.

Surajit Basak,"On BER Minimizing Routing and Power Allocation in Multi-Hop Cognitive Radio Ad-Hoc Networks", International Journal of Engineering Science and Computing (IJESC)", Vol-9, issue-5,July 2019.

Avali Banerjee, "Stability and Control of Quadcopter ", International Journal for Scientific Research and Development", July 2019, Google Scholar, IF 4.396.

Avali Banerjee, "Integrated Multifunctional Security System", International Journal for Scientific Research and Development, July 2019, Google Scholar, IF 4.396.

Anurima Majumdar, Antara Ghosal, "IoT Based Auto-Irrigation System for Agriculture", International Journal of Emerging Science and Engineering (IJESE), Vol-9, issue-5,July 2019.

Surajit Basak, "On Energy Efficient Secure Routing in Multi-hop Underlay D2D Communications for IoT Applications", Ad Hoc Networks (Elsevier), Communicated and received minor revisions in May, 2020. Impact Factor: 3.49.

Palasri Dhar "Drain Current versus drain voltage characteristics for an analytical Al_{0.25}Ga_{0.75}N/GaAs superlattics MOSFET " Superlattices and Microstructures (ELSEVIER)MAY 2020,Impact factor: 2.385 (communicated).

Sunipa Roy, "Facile Synthesis of ZnO Nanofoam on ZnO Nanowire for Hydrogen Gas Detection", Nanoscience and Nanotechnology Asia (Bentham Science),Volume 10 , Issue 1 , 2020, March 2020.Impact Factor: 0.8.

Sunipa Roy, "Formaldehyde Sensor to Defeat Sick Building Syndrome", Sensor Letters (ASP), May 2020, Accepted, Article in press. Impact Factor: 1.5

Sunipa Roy, :Graphene based Room temperature H₂ Gas Sensor", IEEE sensor Journals (IEEE), May 2020 ,Impact Factor: 3.076 (Communicated).

Sunipa Roy, "Analysis of thermal noise with device scaling for InAs_xSb_{1-x} UTB MOSFETs in sub 100 nm regime", Superlattices and Microstructures (Elsevier) May 2020, Impact factor: 2.385 (communicated)

International Conference

Sayan Roy Chaudhuri, et. al. "Vehicle Pressure Limiting Bridge Model", published in International Conference - Frontiers in Engineering, Management and Applied Science 2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep,2019.

Sayan Roy Chaudhuri, et.al." A Review of PCA Based Face Recognition Methods", published in International Conference - Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep,2019.

Dr. Surajit Basak, et.al.,"Control Electrical Devices Remotely Using RF",published in International Conference-Frontiers in Engineering, Management and Applied Science-2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0

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International Journal

Chowdhury Md. Mizan, Tridib Chakraborty, Sudeep Ghosh, Suparna Karmakar“**A Survey of Load balaced Job scheduling scheme in cloud computing**” in FICR International conference on Rising Threats in Expert Applications & Solutions”.**Advances Intelligent Systems and Computing. Springer**, ISBN 978-981-15-6013-2. May, 2020, (Book Chapter)

Tridib Chakraborty, Sudeep Ghosh, Trishita Ghosh, Chowdhury Md. Mizan, Suparna Karmakar, "(3,3) VISUAL CRYPTOGRAPHY FOR ONLINE CERTIFICATE AUTHENTICATION", International Journal of Engineering and Advanced Technology (TM), ISSN: 2249-8958 (Online), Volume-9 Issue-6, June 2020. Scopus Index.

DEPARTMENT: FT

International Seminar / Conference

Dr. Kakali Bandyopadhyay & Ms. Shairee Ganguly (2019) "Comparison of Frying Stability of Vegetable Oil with and Without Adding Black Cumin Seeds" Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly, Ms. Dolanchapa Sikdar (2019) "Enhancement of Nutraceutical Characteristics Baked Products" Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

Ms. Rosalin Nath, Ms. Dolanchapa Sikdar (2019) "Effect of Irradiation on Food: Review" Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

Ms. Dolanchapa Sikdar & Dr. Anju Paul (2019) "Fortification of Ice Cream" Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

Ms. Rosalin Nath, Ms. Dolanchapa Sikdar (2019) "A Review on Citrus Fruit Peels as Potential Source of Some Beneficial Nutrients" Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

Ms. Dolanchapa Sikdar & Ms. Shairee Ganguly (2019) "IMF: Enhance The Self Life of Food" Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

Ms. Rosalin Nath, Dr. Deborshi De & Dr. Kakali Bandyopadhyay (2019) "Role of Neuropsychology - affecting individual discretion in food selection" Abstract Accepted and

PUBLICATIONS

Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26th and 27th September, 2019.

Ms. Shairee Ganguly, Ms. Rosalin Nath (2019) “Therapeutic Foods: A Solution for Malnutrition

2019-20	FT	0	0	4	15	19	at a Low Cost”
	AEIE	0	0	0	4	4	
	IT	0	0	0	5	5	
	CSE	0	0	4	20	24	
	EE	0	1	0	18	19	
	ECE	0	0	0	12	12	
	ASHU	0	0	0	9	9	
	Total	0	1	8	83	92	

Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26th and 27th September, 2019.

Ms. Dolanchapa Sikdar, Ms. Rosalin Nath, (2020) “A review on energy conversion from rice straw waste” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Ms. Shairee Ganguly , Ms. Dolanchapa Sikdar (2020) “Food coloring: Improving of the Appearance of Food” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly (2020) “Sesame Protein Isolates: Potential Sources of Nutrition” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Ms. Dolanchapa Sikdar, Dr. Anju Paul (2020) “Application of Various Techniques for Meat Preservation” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Dr. Sreyashee Basu, Dr. Anju Paul (2020) “Effect of coffee on human Health” Abstract

Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February.

Dr. Anju Paul (2020) "A review on cold plasma technology in food processing" Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Dr. Anju Paul, Ms. Rosalin Nath, (2020) "Review on utilization of pineapple waste" Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

International Journal

Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly "A Review on Microbial-Pigment: A Good Source of Biocolour" *The Pharma Innovation Journal*, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

Ms. Rosalin Nath, Dr. Kakali Bandyopadhyay, Ms. Dolanchapa Sikdar "A Review on Mushroom: A Cancer Antidote", *Journal of Emerging Technologies and Innovative Research* 6(12):764-774 (2019),(ISSN-2349-5162) Impact Factor-5.87

Dr. Anju Paul "A review on extraction of glucose from rice" *The Pharma Innovation Journal*, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly "Hibiscus Petal, Fortified Fruit Juice- A Health Drink.", *International journal of Creative Research Thought*, 2020; 8(April) 2020, ISSN: 2320-2882, Impact factor: 7.9.(NAAS Rating)

Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly, "Development and Characterization of Biocolour Fortified Yogurt: A New Pathway towards Functional Foods", *International Journal of Engineering Trends and Technology (IJETT)*, 68(May):1-6,(2020) ISSN: 2231-5381. Impact Factor: 2.88, doi:10.14445/22315381/IJETT-V68I4P201,SSCOPUS indexed.

Dr. Kakali Bandyopadhyay, "Study of Combined Action of Papaya Leaf Extract, Pomegranate and Lemon"- A Review, International Journal for Modern Trends in Science and Technology ISSN: 2455-3778, 6(May):67-71, 2020, Web of Science ResearcherID [AAJ-4390-2020](#), impact factor: 3.320, Elsevier Indexed.

Ms. Dolanchapa Sikdar, Ms. Rosalin Nath, Dr. Kakali Bandyopadhyay and Ishon Mollick,"Fortifications in Ice-cream with enhanced functional properties: A Review", International Journal for Modern Trends in Science and Technology ISSN: 2455-3778, 6(May): 2020 Web of Science,ResearcherID [AAJ-4390-2020](#), impact factor: 3.320, Elsevier Indexed.

DEPARTMENT: AEIE

International Conference

Bapita Roy , Sanghamitra Layek, Suparna Maity, Arpan Kumar Lahiri, Debasish Basu, Sumon Das "An Integrated Approach for prototype design of a Structural Health Monitoring of Bridge", FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

Suparna Maity, Bapita Roy, Santana Das, Sanghamitra Layek, Anirban Saha, Subhajit Kumar Hooi "Smart way to design a high end Home Electrical Automation" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

Sanghamitra Layek, Santana Das, Bapita Roy, Suparna Maity, Abhishek Shil, Upasana Roy Chowdhury "Analysis of Sweat Gland Activity and Electrical Resistance of Skin by GSR Meter" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

Santana Das, Sanghamitra Layek, Suparna Maity, Tathagata Chatterjee, Atreyee Das, Subrit Dey "Design and Fabrication of Economical Anemometric Type Blood Flow Measuring Instrument" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

Paramita Banerjee, Sunipa Roy "Technological development of Piezoelectric mass sensor: A Review" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

Sudip Kuila, Sanghamitra Layek , Swagat Das ,Tamasha Paul,Souvik Das "Assessment of diabetes through Exhalation" ICORE 2020, February 6-7 at GNIT, Kolkata, India.

Bapita Roy, Paramita Banerjee, Sayani Dey, Shilpita Hazra, Sonali Das "Development of Non-Contact Type Surface Roughness Measurement System" ICFTTAE 2020 at NIT, Kolkata, India.

Sudip Kuila, Surajit Bagchi "Noninvasive Assesment of Diaberries Mellitus" ICFTTAE 2020 at NIT, Kolkata, India.

PUBLICATIONS

International Journal

Bapita Roy, Prof.Dr.Rajib Chakraborty, "A novel method to study the characteristics of a plasmonic pressure sensors by semi analytical process", International Journal of Applied Optics,Impact Factor: 1.784 Total Citations: 38,885(ranked 4th out of 86 journals),Eigen Factor Score: 0.04119 (ranked 5th out of 86 journals)Impact Factor: 1.784 Total Citations: 38,885(ranked 4th out of 86 journals),Eigen Factor Score: 0.04119 (ranked 5th out of 86 journals),SCI indexed.According to Optics category rankings in the 2015 Journal Citation Reports.

DEPARTMENT: CA

International Conference

J.K. Das, Somalina Chowdhury,"IoT base Auto Selection of Utility and Tariff", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

International Journal

Somalina Chowdhury, Santanu Kr. Sen, "Security in Smart Meter using IoT" Published in scopus Index, Impact factor 1.0,in international Journal of Engineering and Advanced Technology (IJEAT) at Volume-9 Issue-4 pg 2293-2295, April 2020 Issue on 30 April 2020.value of citation 6.02 (Scopus Indexed)

STUDENT PUBLICATION

DEPARTMENT: FT

International Seminar / Conference

- Purba Dutta, Anirzeet Pramanik (2019) "Comparison of Frying Stability of Vegetable Oil with and Without Adding Black Cumin Seeds"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019..
- Ishon Mallick, Poulami Banerjee (2019) "Enhancement of Nutraceutical Characteristics Baked Products"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- Piyali Bannerjee (2019) "Effect of Irradiation on Food: Review"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- Ishon Mallick, Poulami Banerjee (2019) "Fortification of Ice Cream"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- Mariya Mukherjee, Soumily Misra (2019) "A Review on Citrus Fruit Peels as Potential Source of Some Beneficial Nutrients"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- Srijeeta Saha, Arunima Singha (2019) "IMF: Enhance The Self Life of Food"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- Rajdeep Chakraborty, Ayan Malakar, (2019) "Role of Neuropsychology - affecting individual discretion in food selection"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- Saurjaynee Biswas, Nibedita Chowdhury, Deborima Bera (2019) "Therapeutic Foods: A Solution for Malnutrition at a Low Cost"** Abstract Accepted and Presented in International Conference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- Ayushi Nandy, Pooja Shaw, Shalini Chanda, (2020) "A review on energy conversion from rice straw waste"** Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .
- Srijeeta Saha , Sourini Sen, Sourav Das, (2020) "Food coloring: Improving of the Appearance of Food"** Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .
- Ishon Mollick, Mariya Mukherjee, Soumily Misra, (2020) "Sesame Protein Isolates:**

Potential Sources of Nutrition” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Sayanan Sarkar, Somdeepa Bhattacharya, Neha Das, Poulami Das, (2020) “Application of Various Techniques for Meat Preservation” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Baidik Sinha Ray, Sayandeep Halder, (2020) “Effect of coffee on human Health” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Pritam Bar, (2020) “A review on cold plasma technology in food processing” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

Poulami Das, Neha Das, Somdeepa Bhattacharya, Sayanan Sarkar, (2020) “Review on utilization of pineapple waste” Abstract Published and Presented in International Conference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February .

International Journal

Anindya Dhar & Poulami Chakraborty “A review on extraction of glucose from rice”
The Pharma Innovation Journal, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

Anirzeet Pramanik & Purba Dutta "A Review on Microbial-Pigment: A Good Source of Biocolour" *The Pharma Innovation Journal, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.*

Arnab Saha “A Review on Mushroom: A Cancer Antidote *Journal of Emerging*

PUBLICATIONS

Technologies and Innovative Research 6(12):764-774 (2019),(ISSN-2349-5162) Impact Factor-5.87

Ishon Mollick,"Fortifications in Ice-cream with enhanced functional properties: A Review", International Journal for Modern Trends in Science and Technology ISSN: 2455-3778, 6(May): 2020 Web of Science,ResearcherID AAJ-4390-2020, impact factor: 3.320, Elsevier Indexed.

DEPARTMENT: AEIE

International Conference

Oindrila Ghatak, Hiya Mandal, Monojit Mondal, Gurpreet Kaur, Sunipa Roy, Paramita Banerjee, "Effect of Stacked Membrane in MEMS based Microheater Structure for Electronic Nose Application" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

Sudip Kuila, Sanghamitra Layek , Swagat Das ,Tamasha Paul,Souvik Das "Assessment of diabetes through Exhalation" ICORE 2020, February 6-7 at GNIT, Kolkata, India.

Bapita Roy, Paramita Banerjee, Sayani Dey, Shilpita Hazra, Sonali Das "Development of Non-Contact Type Surface Roughness Measurement System" ICFTTAE 2020 at NIT, Kolkata, India.

Sudip Kuila, Surajit Bagchi "Noninvasive Assesment of Diaberries Mellitus" ICFTTAE 2020 at NIT, Kolkata, India.

DEPARTMENT: CSE

International Conference

Sandip Kumar Karmakar,Poulomi Kumar,Prothit Das,Joydeep Mukherjee,"IOT Based Microcontroller operated Noise management with efficient Power consumption Strategy in a Smart Library System" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019),ISBN No: 978-93-5391-015-0,26-27th Sep,2019.

• **Srijit Pal, Pritimoy Sarkar, Udayaditya Sasmal, Saswata Mukhopadhyay, Sayani Chandra, "HuMoTS: Microcontroller based Humidity Monitoring and Transmission System" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26th - 27th Sept, 2019.**

Bikramjit Das, " IOT Based Quad-Copter for Sowing Seed, Sprinkling Fertilizer and identifying Suitable Crop in a Farming Land by Soil analysis and Weather Prediction" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0,26-27th Sep,2019.

Yogesh Singh, Utattha Banerjee, Snigdha Mazumdar, "Human Motion Detection with Activity

PUBLICATIONS

Tracking using OpenPose and modified Optical Flow published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

Prafull Kumar, Priyam Halder, Rupak Dey, Sampriti Ghosh, "**MiDoLS: A Microcontroller based Door Lock System**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay, "**Implementation of Voice Controlled Robot using Arduino: A Novel Approach**", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

Debleena Dutta, "**HFRS: A Microcontroller based Human Face Recognition System**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

Ankita Adhikary, Amlan Dutta, "**Smart Home Automation based on sensors and Microcontroller**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

Pritam Saha, Partha Pratim Dey, Pronoy Dewanjee, "**An Approach to Next Generation Lighting Method Using IoT and Gesture**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

Soumili Ganguly, Suparna Hazra, Swagata Sen, Tapanova Khanra, "**Comparative Study of different Machine Learning Algorithms for Heart Disease Prediction**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

Sourish Mitra, Sandip Kumar Shaw, Sandip Karmakar, Bidyutmala Saha, Rafiqul Islam,

PUBLICATIONS

Santanu Kumar Sen, "IOT based Mobile controlled ORC (Orthospinal roundback Curvature)-Kyphosis detection and measurement technique of Human spine" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Amrut Ranjan Jena, Mandira Banik, Sumit Banerjee, Anumita Das, "WORDPRO, an Open Source Smart Word Processing Tool using Web technology and Android" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Srabani Kundu, "Micro Controller Based Automated Traffic Monitoring System" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Amrut Ranjan Jena, "A Fuzzy Graph Recurrent Neural Network Approach for the Prediction of Radial Overcut in Electro Discharge Machining" published in International Conference ICADCML 2020 (Springer Conference Proceeding with Scopus indexing) 30-31st January,2020

Mandira Banik, Subhadeep Saha, Sourav Basak, Subhrajit Roy, Suman Roy Choudhury, "Self Driving Car using Raspberry Pi" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Pallabi Das, Nirupam Saha, Bishal Kumar Shaw, Bishal Lama, Sameema Nasrin, Rajveer Singh, "IoT Based Remote Monitoring System of Pregnant Women in Rural Area" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Dr. Sangeeta Bhattacharyya, Bikramjit Das, Biplab Roy, Debanjana Ghosh, Ankita Adhikari, Diganta Das, " DHaP: A Novel Neural Network based Digitization of Handwritten Prescription", published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Subhadeep Saha, Mandira Banik, Sourav Basak, Subhrajit Roy, Suman Roy Choudhury, "Smart Home Automation based on Sensors and Microcontroller" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Ipsita Saha, Yogesh Singh, Saswata Mukhopadhyay, "Processors for sustainability: An analysis of modern processors for power efficient IoT uses." published in International Conference on

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Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

Moloy Dhar,Jhumpa Das, Disha Gaine, Durba Dey, "Human Activity Recognition" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

International Journal

Sandip Kumar Karmakar, Sandip Shaw, **Sourish Mitra, "Iot Based Finger-Print-Scanning-Biometric-Panel With Advanced Infra-Thermal-Scanning Strategy Comprising Of Automated Sanitizer-Spraying-Disinfectant-Gateway-Tunnel"** published in international Journal International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, ISSN and UGC Approved, 5.75 Impact factor.

Rohan Chakroborty, Subhajit Sanyal, **Pallabi Das, "IoT based Thermal Signature Detector with Alarm & E-mail Notification with Integrated Social Gathering Screening using Computer Vision"** published in The International Journal of Emerging Technology and Advanced Engineering-ISSN 2250-2459, Volume 10, Issue 4, pp-164-171, April 2020 UGC Approved, Impact Factor of 6.351.

Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay, **Moloy Dhar, Amrut Ranjan Jena, Mandira Banik** "Implementation of Voice Controlled Robot using Arduino: A Novel Approach" published in International Journal of Emerging Technology and Advanced Engineering (ISSN 2250-2459(Online), An ISO 9001:2008 Certified Journal), Volume 10, Issue 04, April, 2020.

Sourish Mitra, Ashesh Roy Choudhuri, Neela Chattopadhyay, Arshi Raina, Srijit Pal,"Iot Based Quad-Copter With Seed Sowing- Fertilizer Sprinkling- Suitable Crop Identification Strategy By Predicting Weather And Analyzing Soil: A Combo Solution Of Farming Land"

Subhaditya Banerji, Soumyajeet Kabi, Rohan Chakraborty, Moloy Dhar, Amrut Ranjan Jena "A SMART SEWAGE CLEANING SYSTEM USING INTERNET OF THINGS" Published in International Journal of Research and Analytical Reviews (IJRAR) at Volume 7 Issue 2 , Date of Publication:June 2020(UGC Approved (Journal No : 43602) & 5.75 Impact Factor)

DEPARTMENT: IT

International Conference

Pradipta Karmakar “Discrimination of Text and Non-Text Image” International Conference on Emerging Trends in Electro-Mechanical Technologies and Management (TEMT-2019), 24-27 July, 2019. Proceedings in Springer, Indexes by Scopus.

Puja Mukherjee, Niladri Sen, Sandipan Kar,“Visual Cryptography for Online Certificate Authentication”.Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September,2019.

Arkajyoti Chakraborty, “Repairing of functional TSVs using Redundant TSVs”. Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.

Monishankar Nath, Arnab Banerjee, Prithwish Das “Congestion Control Approach by Controlling Number of Messages Dynamically and by Sharing the.” Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.

Rizwi Salim, Kumarika Mukherjee, “Text detection from camera captured image” Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.

DEPARTMENT: EE

Romika Saha, Rishab Halder, Roney Banerjee, Souradeep Bhattacharjee, “Single phase transformerless grid connected solar PV system with auto-synchroniser”, published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Moumi Roy Chowdhury, Ms.Koyena Majumdar, Mr.Bishal Manna, Mr.Debnil Majumdar, Mr.Arnab Podder, “Arduino Based Parking Lot”, published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Ramanuj Bhowmick, Arijit Das, Meghna Sengupta, Subhodeep Sarkar, “Solar cooker (Box type)”, published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

PUBLICATIONS

Swaraj Sharma, Rakesh Kumar, Shahbaz Khan, Suvronil Jana, Tushar Kumar ,“Solar Car”,published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

TanushreeChatterjee, “Adaptive Protection Schemes for Wide Area Network: A Review”,published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

ArghyadipChakraborty, SudiptaMahanti, Suman Mishra, Nilanjan Naha, SwarnaKiranMallik, “Advance Railway Signaling & Crossing System Using Scada”,published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Santanu Das, PratipBera, PritamKhanra, PranticSen, SandeepMondal, “Low Cost Fingerprint Based Electronic Voting Machine”, published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Saif Ali, SayoniGhosh, SayantanSaha, “Laboratory Prototype of a Smart Solar Air Cooler”,published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

KinkiniAdhikari, AnkitaBhowmick, DebjitSarkar, “Neural Protective Relay”, published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Anirban Chandra, Nilabha Roy, Taniya Roy, “Static series compensator and static transfer switch for voltage dip mitigation with short interruptions”, published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Subhojyoti Roy, SubhranilGhosh, SouravGhosh, Sourodeep Sett, “Automatic Street Lights Control Using LDR”, published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

PUBLICATIONS

Ashish Gupta, ShuvamPatra, ShubhroKundu, SousamKar, SubhojitGhosh, "Bionic Glove: Universal Remote rehabilitation of the paralytics", published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

AmitAgarwal, Anshumita Banerjee, AnkitaSinha, AnkitaBiswas,AbijitSamanta, "Green House And Modern Gardening Technique",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

PoushaliGope, SharmistaGuha, SumanSarkar, RakeshBiswas, Rahul Singh, "Blood vessel segmentation of fundus images using image processing",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Rahul Mukherjee, SupalShee, Sougata Seth, Soumodeep Paul, "Automatic room light controller using Microcontroller and visitors counter", published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Sudip Das, Alia Hussain, Arunava Banerjee, Ayan Kumar Karar "Automatic home lighting solution using human detection, sunlight intensity & room temperature sensor",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

SubhajitDutta, Sourav Das, AnirbanBera, SoumyaDhang, NayanHazra, "Flame Seeker and Extinguishing Robot", published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

Subharshi Roy, Bikram Das, DebanjanChatterjee, SoudipMaji and SoumikMandal published "Wireless Transmission of Energy from Floating Microgrids to Electric Ships by High Powered Inductive Charging Method" published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN Number : 978935396-201-2, 7-8 FEBRUARY 2020.

ArpanMondal, Ayush Kumar Giri, Saumyadeep Bhattacharyya, Debadrita Paul, Sanchayan Banerjee, "Development of a Low Cost Automated Fire Fighting Robot", published in Forum of Scientists, Engineers & Technologists (FOSET 2020), 11th Inter University Engineering, Science & Technology Academic Meet - 2020 & Innovative Model Competition for a Sustainable Society, 15thMarch 2020.

DEPARTMENT: ECE

International Conference

Md. Rahbar Hussain, Amrita Banerjee " Low Threshold Voltage AlGaAs/GaAs High Electron Mobility Transistor and AlGaIn/GaN High Electron Mobility Transistor: A comparative Study", International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.

Md.Azhar Hussian " Programmable Wireless Based Telerobotics Surgery with heartbeat measurements and blood pressure and blood sugar measurements", International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.

Aprajita Bhagat, Arijeet Saha, Apurba Samanta, Eepsita Das, Antara Ghosh, Swagata Bhattacharya, , " Automated Greenhouse Controller", International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.

Shinjini Saha, Sanchari Saha, Senjuti Mazumdar, Taniya Mitra "All-in-one Self Defense Device for Women", International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

Suman Mallick, Udit Pal, Torsa Mukherjee, Sreyashi Biswas and Tejpal Singh, "AI Based Health Care System for 24x7 Monitoring of Patients using IOT", International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

Santanu Saha, Shobhandeb Paul and Suvashish Paul, "Smart Baby Monitoring System using IOT", International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

Oindrila Ghatak, Hiya Mandal, Monojit Mondal, Gurpreet Kaur, "Effect of Stacked Membrane in MEMS based Microheater Structure for Electronic Nose Application" International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

PUBLICATIONS

S.Sarkar, S.Moitra ,S.Ghosh ,S. Bhattacharya ,S.Chakraborty ,S.Das ,S.Chowdhury, S.Dawn, S.Dutta, "A Solar backed up innovative Inverter" , International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6

Abhinanda Mitra, Asmita Chakraborty "A Review of PCA Based Face Recognition Methods", International Conference - Frontiers in Engineering, Management and Applied Science - 2019, Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

Subham Chakraborty,Sayan Chowdhury, Soumadip Das ,Sayansri Ghosh,Rimona Dutta, "Vehicle Pressure Limiting Bridge Model", International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, Kolkata, 26th - 27th September 2019.

Sanchari Saha, Wriju Banerjee, Tathagata Bhattacharyya, Saswata Sundar Maity, " Facial and Voice Recognition Based Security and Safety System in Car", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020 accepted.

Sangeeta Rana, S. B. Amreen Saba, Samayita Chakraborty, "Bionic Eye-A Review", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Am;ity University, Noida, 4th - 5th June, 2020 accepted.

DEPARTMENT: ASH

International Conference

Tanusri Chatterjee ,Rajdeep Dutta,Anjan Mandal,Soumyajeet Kabi, "Resource Utilization in a Ferro Alloy Plant", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

Tanusri Chatterjee, Rajdeep Dutta, Anjan Mandal, Agniv Sen, "Analysis of Turbulence Modelling & Simulation of Cutting Fluid Flow through a Sudden Contraction Nozzle", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

Sukriti Dutta and Sourini Sen, "Frontier Roles of Antioxidants against Human Health Hazards: A Review", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

PUBLICATIONS

Sourav Pal, Sourav Paul, "Analyzing Drinking Water Quality Index in different Districts of West Bengal: A Survey", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

Utsav Patra, "Secret Searing Scheme (t,n) for Efficient Task Management with Revocation in Crowdsourcing", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

Shuvam Patra, Sourav Paul, Monisankar Ghosh, Sourav Pal, "Li-Fi(Light Fidelity) Technology for modern communication system", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

Sayak Mukherjee, Pritam Kundu, "Green Engineering & Nuclear Energy: The Status of India", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

Smriti Dutt, Shuvam Patra, "Waste water and water treatment for environmental sustainability", National Conference on Environmental Sustainability, Water resource and Management (ESWRM 2019)

Yash Raj, ShreyashreeSarkar, SandharbKamble, "Waste to Wealth: Indian Scenario", ICORE 2020, February 2020.

Committee List

Members of Board of Governors

Sl. No.	Name of Member of BOG	Position in the current engagements
1	Dr. S.M.Chatterjee	Chairman- Advisor, State Council of Technical Education, Former Vice-Chancellor Bengal Engineering & Science University
2	Mr. Taranjit Singh	Managing Trustee
3	Mr. Haranjit Singh	Trustee Member
4	Mr. Amrik Singh	Trustee Member
5	Mr. Harjyot Singh	Member, Nominated by Trust
6	Mr. Amanjyot Singh	Member, Nominated by Trust
7	Mr. Simarpreet Singh	Director, JIS Group Educational Initiative
8	Mr. U. S.Mukherjee	Dy. Director, JIS Group; Member, Nominated by Trust
9	Dr. Sourav Dutta	Industry representative (Chief Product Officer, PayBack, Gurgaon)
10	Prof. Malay Chatterjee	MAKAUT Nominee
11	Dr. Amalendu Basu	Director of Technical Education (Ex-Officio), Govt. of WB
12	Mr. Jagadish Chanda	WB Govt. Nominee
13	AICTE Regional Officer	Member Representative, AICTE ERO
14	Prof(Dr.) Arun Kr. Mondal	Professor, ECE Dept and COE, Teacher Representative
15	Mr. Adhish Kr. Chakrabarty	Member, Asst. Professor, AEIE Dept., Teacher Representative
16	Prof(Dr.) Asit Guha	Advisor, JIS Group ;Member, Nominated by Trust
17	Mr. S. S. Dutta Gupta	Director, JIS Group
18	Prof(Dr.) Santanu Kr. Sen	Principal & Member Secretary

Committee List

Members of Academic Council

Chairperson

Prof.(Dr.) Santanu Kumar Sen : Principal & Chairman

Member Secretary

Dr. Sucharita Bhattacharyya : Associate Professor

Members

Prof. (Dr.) A.K. Mondal	Professor and COE, Exam Cell
Dr. Adhish Kr. Chakrabarty	Registrar, GNIT
Mrs. Ipsita Saha	HOD, CSE Dept
Dr. Barnali Kundu	HOD, EE Dept.
Dr. Sunipa Roy	HOD, ECE Dept.
Mr. Chiranjeeb Dutta	HOD, CA Dept
Dr. Sucharita Chakrabarty	HOD, ASHU Dept
Mrs. Bapita Roy	HOD, AEIE Dept
Mr. Sudip Ghosh	HOD, IT Dept.
Dr. Kakali Bandyopadhyay	HOD , FT Dept
Mrs. Srabani Kundu	Asst. Prof. , CSE Dept.
Dr. Indrajit Bose	Asst. Prof. , ASHU Dept.

External Members

Prof.(Dr.) Amalendu Ghosh	Civil Engineering Department, IEST (Invitee)
Mr. Indranil Roy Chowdhury	Senior Project Manager, CTS (Invitee)
Prof.(Dr.) Joydeep Chowdhury	Jadavpur University , Department of Physics
Prof.(Dr.) Sudhabindu Ray	Jadavpur University , ECE Dept
Prof. (Dr.) Konika Das Bhattacharjee	Electrical Engineering Department , IEST,
Prof. (Dr.) Runu Chakraborty	Jadavpur University Dept. of Food Technology

Committee List

Others Institutional Committee

Examination Committee
Finance Committee
Anti-Ragging Committee
Grievance Redressal Committee
Disciplinary Committee
Sports Committee
Cultural Committee
R&D Committee
Library Committee
Women grievance Redressal committee
Publicity/Magazine Committee
Student Welfare Committee
Class monitoring Committee
Publicity and Website Committee
Routine Committee
IQAC Cell

Committee List

**LIST OF PARTICIPANTS IN FDP, STTP, HANDS ON
SESSION, WORKSHOP**

Sl. No	Name of teacher who attended the program	Title of the program	Duration (from – to) (DD-MM-YYYY)
1	AMRUT RANJAN JENA	AICTE SPONSORED ONE WEEK STTP ON THEORY AND APPLICATION OF ML AND DATA ANALYSIS TECHNIQUE	16-12-2019 - 21-12-2019
2	MOLOY DHAR	ONE WEEK FDP ON IMAGE AUTHENTICATION, WSN & IOT	22-06-2020 - 26-06-2020
3	SOURISH MITRA	ONE WEEK FDP ON IMAGE AUTHENTICATION, WSN & IOT	22-06-2020 - 26-06-2020
4	SAYANI CHANDRA	FDP ON MACHINE LEARNING USING PYTHON	23-07-2019 - 27-07-2019
5	RAFIQUL ISLAM	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
6	SOUMITA SETH	ONE WEEK FDP ON IMAGE AUTHENTICATION, WSN & IOT	22-06-2020 - 26-06-2020
7	SANGEETA BHATTACHARYA	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
8	SWAGATA BHATTACHARYA	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
9	ZAHIR ABBAS RAHMAN	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
10	DR. KAUSHIK ROY	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
11	SAYAN ROY CHAUDHURI	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
12	DR. SUPARNA BISWAS	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
13	KOUSHIK PAL	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
14	AJOY SEN	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
15	ENAKSHI BASAK	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
16	ANURADHA GUHA	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
17	MR. AMIT DEBNATH	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
18	PARTHA SEN	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
19	MR. PRITAM CHOWDHURY	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
20	USHNIK CHAKRABARTI	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
21	MR. SUSOVAN DUTTA	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020

LIST OF PARTICIPANTS IN FDP, STTP, HANDS ON SESSION, WORKSHOP

22	DEBJANI BANERJEE	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08-2019
23	SUPARNA KARMAKAR	AICTE-SPONSORED STTP ON EDUCATIONAL TECHNOLOGY IN ENGINEERING TEACHING	06-01-2020 - 11-01-2020
24	DR. PARAMITA BANERJEE	TRAINING PROGRAM ON MACHINE LEARNING USING PYTHON - BEGINNER'S LEVEL	08-06-2020 - 24-06-2020
25	SANTANA DAS	ONE WEEK FDP ON IMAGE AUTHENTICATION, WSN & IOT	22-06-2020 - 26-06-2020
26	ANIL KUMAR GHOSHAL	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08-2019
27	SUPARNA MAITY	ONE WEEK FDP ON IMAGE AUTHENTICATION, WSN & IOT	22-06-2020 - 26-06-2020
28	DR. SUCHARITA BHATTACHARYYA	FDP ON EMBEDDED SYSTEMS DESIGN & INTERNET OF THINGS (IOT)	09-01-2020 - 10-01-2020
29	MR. DIPANJAN BHATTACHARJEE	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08-2019
30	DR. INDRAJIT BOSE	AICTE FDP ON STUDENT INDUCTION PROGRAM AT SISTER NIVEDITA UNIVERSITY, KOLKATA	18-07-2019 - 20-07-2019
31	DR. SUCHARITA CHAKRABARTI	INDUSTRY ACADEMIA MEET CUM EXHIBITION ON WASTE MANAGEMENT SPONSORED BY MGNRCE AND MHRD	07-11-2019 - 08-11-2019
32	MR. SANJOY BISWAS	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
33	MR. SUMAN GHOSH	5 DAYS FDP ON AUTOMATIC GENERATION CONTROL OF POWER	15-06-2020 - 19-06-2020
34	PALASRI DHAR	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
35	AVALI BANERJEE	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
36	ANURIMA MAJUMDAR	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
37	ADITI MANDAL	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
38	KAUSTAV MADHAB CHATTERJEE	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
39	ANTARA GHOSAL	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
40	SHOUVIK SARKAR	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
41	DR. SUMAN BHATTACHARYA	5 DAYS FDP ON CLOUD COMPUTING	07-01-2020 - 11-01-2020

LIST OF PARTICIPANTS IN FDP, STTP, HANDS ON SESSION, WORKSHOP

42	DR. SAYANTAN NATH	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	29-06-2020 - 03-07-2020
43	DR. RUPAK CHAKRABORTY	5 DAYS FDP ON GREEN COMPUTING	22-06-2020 - 26-06-2020
44	MRS. SRABANI KUNDU	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	30-12-2019 - 03-01-2020
45	MISS IPSITA SAHA	5 DAYS FDP ON GREEN COMPUTING	22-06-2020 - 26-06-2020
46	MS. MANDIRA BANIK	5 DAYS FDP ON CLOUD COMPUTING	07-01-2020 - 11-01-2020
47	MS. BIDYUTMALA SAHA	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
48	MR. NIRUPAM SAHA	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	30-12-2019 - 03-01-2020
49	MISS PALLABI DAS	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
50	MR. KRISHNENDU CHOWDHURY	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	29-06-2020 - 03-07-2020
51	MS. AHANA GHOSH	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
52	MR. DEVDUTTA CHAKRABARTY	5 DAYS FDP ON CLOUD COMPUTING	07-01-2020 - 11-01-2020
53	MR. SOUGATA SARKAR	5 DAYS FDP ON GREEN COMPUTING	22-06-2020 - 26-06-2020
54	MR. SHAMIK ROY CHOUDHURY	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	30-12-2019 - 03-01-2020
55	MR. SUBHADIP CHAKRABORTY	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	29-06-2020 - 03-07-2020
56	MS. MASUMA SULTANA	5 DAYS FDP ON GREEN COMPUTING	22-06-2020 - 26-06-2020
57	MR. ABHIRUP SINHA	5 DAYS FDP ON CLOUD COMPUTING	07-01-2020 - 11-01-2020
58	DR. ARUN KUMAR MONDAL	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
59	DR. SISIR KUMAR DAS	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
60	DR. PIJUSH KANTI BHATTACHARJEE	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
61	DR. SUNIPA ROY	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
62	DR. NABANEETA BANERJEE	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
63	DR. SURAJIT BASAK	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019

**LIST OF PARTICIPANTS IN FDP, STTP, HANDS ON
SESSION, WORKSHOP**

64	MRS. SOMA BORAL	WORKSHOP ON EMBEDDED SYSTEM WES-2020	06-01-2020 - 13-01-2020
65	MR. SHATADRU BISWAS	5 DAYS FDP ON DIGITAL LOGIC CIRCUITS AND LINEAR INTRIGATED CIRCUITS	25-11-2019 - 29-11-2019
66	MR. SUDIP KUMAR KUILA	5 DAYS FDP ON SPACE VECTOR MODULATION FOR THREE PHASE INVERTER	18-05-2020 - 22-05-2020
67	DR. ADHISH KUMAR CHAKRABARTY	5 DAYS FDP ON SPACE VECTOR MODULATION FOR THREE PHASE INVERTER	18-05-2020 - 22-05-2020
68	MRS. BAPITA ROY	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020
69	MRS. SANGHAMITRA LAYEK	5 DAYS FDP ON SPACE VECTOR MODULATION FOR THREE PHASE INVERTER	18-05-2020 - 22-05-2020
70	MRS. JAYITA DATTA	5 DAYS FDP ON SPACE VECTOR MODULATION FOR THREE PHASE INVERTER	18-05-2020 - 22-05-2020
71	MRS. MADHUMITA CHAKRABORTY	5 DAYS FDP ON SIMULATION OF POWER ELECTRONIC CONVERTERS	21-10-2019 - 25-10- 2019
72	MS. RITUPARNA BANERJEE	5 DAYS FDP ON AUTOMATIC GENERATION CONTROL OF POWER	15-06-2020 - 19-06-2020
73	DR. ANINDITA GANGULY	5 DAYS FDP ON SIMULATION OF POWER ELECTRONIC CONVERTERS	21-10-2019 - 25-10- 2019
74	DR. JIBAN DAS	5 DAYS FDP ON SIMULATION OF POWER ELECTRONIC CONVERTERS	21-10-2019 - 25-10- 2019
75	DR. SHYAMAL KUMAR GHOSH	5 DAYS FDP ON AUTOMATIC GENERATION CONTROL OF POWER	15-06-2020 - 19-06-2020
76	MRS. RIKTA MAJUMDER	5 DAYS FDP ON AUTOMATIC GENERATION CONTROL OF POWER	15-06-2020 - 19-06-2020
77	MR. SHYAMAL KUMAR ROY	5 DAYS FDP ON SIMULATION OF POWER ELECTRONIC CONVERTERS	21-10-2019 - 25-10- 2019
78	MS. RITUPARNA MUKHERJEE	5 DAYS FDP ON AUTOMATIC GENERATION CONTROL OF POWER	15-06-2020 - 19-06-2020
79	MR. KUMAR BHARTI	5 DAYS FDP ON SIMULATION OF POWER ELECTRONIC CONVERTERS	21-10-2019 - 25-10- 2019
80	MR. ASHIS KUILYA	5 DAYS FDP ON AUTOMATIC GENERATION CONTROL OF POWER	15-06-2020 - 19-06-2020
81	DR. SOUMYADEEP RAY	5 DAYS FDP ON SIMULATION OF POWER ELECTRONIC CONVERTERS	21-10-2019 - 25-10- 2019
82	PROF. KAKALI BANDYOPADHYAY	5 DAYS FDP ON RECENT ADVANCEMENT IN FOOD PROCESSING AND PRESERVATION	30-12-2019 - 03-01-2020
83	DR. ANJU PAUL	5 DAYS FDP ON RECENT ADVANCEMENT IN FOOD PROCESSING AND PRESERVATION	30-12-2019 - 03-01-2020
84	MISS SHAIREE GANGULY	5 DAYS FDP ON RECENT ADVANCEMENT IN FOOD PROCESSING AND PRESERVATION	30-12-2019 - 03-01-2020
85	MS. DOLANCHAPA SIKDAR	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020

LIST OF PARTICIPANTS IN FDP, STTP, HANDS ON SESSION, WORKSHOP

86	MS. ROSALIN NATH	ONLINE STTP ON TRENDS AND PROSPECTS IN BIOREFINERY	10-06-2020 - 14-06-2020
87	MR. ARKA ROY CHOWDHURY	5 DAYS FDP ON RECENT ADVANCEMENT IN FOOD PROCESSING AND PRESERVATION	30-12-2019 - 03-01-2020
88	MS. IPSITA SEN	ONLINE STTP ON TRENDS AND PROSPECTS IN BIOREFINERY	10-06-2020 - 14-06-2020
89	MS. SANCHITA SINHA	ONLINE STTP ON TRENDS AND PROSPECTS IN BIOREFINERY	10-06-2020 - 14-06-2020
90	DR. SHILADITYA GHOSH	ONLINE STTP ON TRENDS AND PROSPECTS IN BIOREFINERY	10-06-2020 - 14-06-2020
91	DR. DEBAYAN MANDAL	5 DAYS FDP ON RECENT ADVANCEMENT IN FOOD PROCESSING AND PRESERVATION	30-12-2019 - 03-01-2020
92	MR. TRIDIB CHAKRABORTY	5 DAYS FDP ON CLOUD COMPUTING	07-01-2020 - 11-01-2020
93	MR. ARNAB BANERJEE	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	29-06-2020 - 03-07-2020
94	MRS. MOUMITA DAS	5 DAYS FDP ON GREEN COMPUTING	22-06-2020 - 26-06-2020
95	MISS TRISHITA GHOSH	5 DAYS FDP ON CLOUD COMPUTING	07-01-2020 - 11-01-2020
96	MR. CHOWDHURY MD MIZAN	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	30-12-2019 - 03-01-2020
97	MR. SUDEEP GHOSH	5 DAYS FDP ON GREEN COMPUTING	22-06-2020 - 26-06-2020
98	MR. SUBHABRATA DUTTA	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	29-06-2020 - 03-07-2020
99	MR. SOURAV MALAKAR	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
100	MS. ADITI PROTIHER	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
101	MR. CHIRANJIB DUTTA	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	29-06-2020 - 03-07-2020
102	MRS. DOLA SAHA	5 DAYS FDP ON CLOUD COMPUTING	07-01-2020 - 11-01-2020
103	MISS. SOMALINA CHOWDHURY	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	30-12-2019 - 03-01-2020
104	MRS. SWATI SARKAR	5 DAYS FDP ON MACHINE LEARNING USING PYTHON	30-12-2019 - 03-01-2020
105	MS. SOUMILI BHATTACHARYA	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
106	MR. TAHA YASIN	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
107	DR. INDRAJIT BHATTACHARYYA	AICTE-SPONSORED STTP ON EDUCATIONAL TECHNOLOGY IN ENGINEERING TEACHING	06-01-2020 - 11-01-2020

LIST OF PARTICIPANTS IN FDP, STTP, HANDS ON SESSION, WORKSHOP

108	MR. RAJARSHI CHAKRABORTY	FIVE DAY FACULTY DEVELOPMENT PROGRAM ON ADVANCED MATERIALS & MECHATRONIC SYSTEM FOR INDUSTRIAL AUTOMATION	08-06-2020 - 12-06-2020
109	MR. GOUTAM MANDAL	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
110	MR. ANUP KUMAR THANDER	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
111	MR. SHANTANU CHAKRAVARTY	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
112	DR. SREYASREE BASU	FDP ON EMBEDDED SYSTEMS DESIGN & INTERNET OF THINGS (IOT)	09-01-2020 - 10-01-2020
113	DR. MAINAK DEBNATH	AICTE-SPONSORED STTP ON EDUCATIONAL TECHNOLOGY IN ENGINEERING TEACHING	06-01-2020 - 11-01-2020
114	MS. SAYANI CHATTERJEE	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
115	MS. MONALISA BHOWMIK	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
116	MS. TANIA GHOSH	FIVE DAY FACULTY DEVELOPMENT PROGRAM ON ADVANCED MATERIALS & MECHATRONIC SYSTEM FOR INDUSTRIAL AUTOMATION	08-06-2020 - 12-06-2020
117	MS. MOUMITA CHAKLADER	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
118	MS. SANGEETA BISWAS	FIVE DAY FACULTY DEVELOPMENT PROGRAM ON ADVANCED MATERIALS & MECHATRONIC SYSTEM FOR INDUSTRIAL AUTOMATION	08-06-2020 - 12-06-2020
119	DR. SHIBENDU BISWAS	FIVE DAY FACULTY DEVELOPMENT PROGRAM ON ADVANCED MATERIALS & MECHATRONIC SYSTEM FOR INDUSTRIAL AUTOMATION	08-06-2020 - 12-06-2020
120	MISS. STABANIA MUKHERJEE	5 DAYS FDP ON IMPLEMENTATION OF MACHINE LEARNING TOWARDS DIGITAL INDIA	22-06-2020 - 26-06-2020
121	MR. RUPAM DEY	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
122	MR. SUKANTA ADHIKARY	5 DAYS FDP ON ELECTRONIC DEVICES, IMAGE PROCESSING AND MACHINE LEARNING	12-08-2019 - 16-08- 2019
123	DR. SOMA MUKHERJEE	FDP ON RECENT AND FUTURE TRENDS IN TECHNOLOGY	27-04-2020 - 02-05-2020

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