

# GURU NANAK INSTITUTE of TECHNOLOGY

**GNIT**

## Annual Report 2016-17



### Accreditations, Affiliations & Approvals



UGC



NAAC



AICTE



NBA



MAKAUT  
(formerly WBUT)



WBSCT & VE & SD  
(formerly WBSCTE)

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

- Sardar Jodh Singh

# Founder



**Sardar Jodh Singh**



## 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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***Mission***  
***&***  
***Vision***

## **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

## **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



**Achievements  
&  
Recognition**

# Achievements & Recognition

**TOP ENGINEERING INSTITUTE RANKING 2017 WEST BENGAL (PRIVATE)**

RANKING	COLLEGE NAME
1	JIS College Of Engineering, Kolkata
2	Satyam Institute Of Technology, Kolkata
3	Narula Institute Of Technology, Kolkata
4	Futura Institute Of Engineering & Management, Kolkata
5	Saem's Vivekananda Institute of Science & Technology, Kolkata

**TOP EMERGING ENGINEERING INSTITUTE RANKING 2017 WEST BENGAL (PRIVATE)**

RANKING	COLLEGE NAME
1	Gargi Memorial Institute of Technology, Kolkata
2	Omvidyal College of Engineering and Architecture, Kolkata
3	Budge Budge Institute of Technology, Kolkata

**Seven Secrets Of Engineering**

**TECHNO INDA GROUP PROVIDES ENGINEERING, TECHNICAL AND MANAGEMENT EDUCATION. EXTRACTS FROM A RECENT SEMINAR HELD AT TECHNO INDA CAMPUS.**

“Can you please shed some light on the fact that core engineering streams are not as much in demand compared to other engineering subjects these days?”

Prasanna Das, Director, Techno India Group, said that the demand for engineering graduates is still high, but it is not as high as it was in the past. He said that the demand for engineering graduates is still high, but it is not as high as it was in the past. He said that the demand for engineering graduates is still high, but it is not as high as it was in the past.

**Take an Intelligent Career Decision**

GNIT has secured **SECOND POSITION** in (11 June 2017) *Times Top Engineering Institute Ranking 2017 (Private) in West Bengal* and also featured in top 150 of *i3RC on the same with Over All Ranking (among Government and Private) at National Level.*

**World | Finance | Technology | Industry | Green Earth | Enlightenment**

June 15, 2017 Every fortnight www.business-economics.in | Estd. 1955 06.62 | USA \$3 | India : ₹ 20

**BUSINESS ECONOMICS**

Road less know more

**Education : Moral and Technical Enrichment**

Indian education needs to be global

**Employability, quality, and skills for socio-economic development**

**Food production and security**

Q) In view of the fast changing global context and Indian industrial policy focus what changes do you face in the engineering scenario?

A) The Government of India envisages a very dynamic and pertinent road map with high leverage on developing indigenous product base and competencies, the entire engineering production is getting the right impetus to grow and compete at a global scale. The policy of bridging the digital divide and promote digital literacy in order to make development a comprehensive mass movement and put governance within everyone's reach in India the IT sector is a highly stressed sector and developing further into a formidable force mobilising the huge domestic market potentials.

In tandem with the growth and 'Make in India' movement the core electronics and instrumentation sectors are provided with augmented investments and growth prospects and the skilled and talented work force in India are doing creditably well to position itself into a formidable force mobilising the huge domestic market potentials.

Q) Any other sector which in your opinion is coming up?

A) Food Production and Security had been a serious factor in our country throughout the planning period. In the fast-paced contemporary age with dual income urban families having little time for preparing elaborate home-cooked meals, there's no dearth of demand for packaged and processed foods. This socio-economic transformation has created a new profession --- food technology. The demand for food technologists has ballooned, making it one of the most attractive careers of the 21st century.

Food technology is the study of manufacture, storage, preservation, canning, and packaging of food products. The technology embraces all types of food --- fruits, vegetables, meat, fish, eggs, milk, cereals, spices, tea, coffee, etc. The Indian Food Industry is the fifth largest industry in the country. The Indian Food Industry is heading towards a quantum jump as the Government of India is allowing 100% Foreign Direct Investment in the retail Food industry recently and is paving the way for entry of transnational food giants which unleash a huge career opportunity for Food Technology Professionals. It has the potential to become India's largest industry.

Q) What is the employment potential for this sector?

A) The food industry is one of the largest on the planet, and people will always have to eat. This means if you are working anywhere along the food supply chain, you will always have a job.

There are literally thousands of different jobs available in the food industry. There is something for everyone, whether a be

**Dr. Santosh Kumar Nayak, Principal, Gargi Memorial Institute of Technology (GNIT), a 100% Group Institution**

Dr. Santosh Kumar Nayak, Principal, Gargi Memorial Institute of Technology (GNIT), a 100% Group Institution, is an expert in quality, R&D, sales, marketing, manufacturing, teaching or in the government. The food science degree is inherently interdisciplinary, which opens up a myriad of opportunities.

Q) In terms of market demands and requirement of skilled manpower what sector do you envisage as the key one?

A) Since instrumentation being the captain of today's world, it is very much necessary for the young minds to get accustomed to the latest developments in instrumentation Engineering. The demand of this course is not only within the country but it is also high in the Gulf countries, because of high concentration of the oil and natural gas firms.

Electronics and Instrumentation (EII) is a versatile field and focuses on areas like automation, process instrumentation and manufacturing industries (design, testing, and quality control, embedded systems, control, robotics, biomedical, VLSI, fiber optics, electronic circuit design and which cover the entire of jobs for instrumentation engineering. Exposure to the latest technologies of Distributed Control System (DCS), Programmable Logic Controller and Supervisory Control and Data Acquisition (SCADA) and virtual instrumentation and Internet of Things (IOT) gives an extra edge to instrumentation students. With the buzz of 'Make in India', strategy of the Central government, EII has got a very prospective future ahead.

Q) What is the reason for electronics and instrumentation engineering becoming so significant?

A) During the next five years, 5G and other technologies will take the electronics and instrumentation market to higher frequencies, spelling significant growth opportunities for semiconductor manufacturers. It results the move towards a more connected, retro-futuristic, and autonomous world which made a growth for the electronic instrumentation market. Today's world is also on the path to become more autonomous with self-driving cars, drones, and autonomous cars. All of these technologies have created a huge demand for electronics and instrumentation engineering.

The prestigious **Business Economics** magazine featured a full length interview of the **Principal, GNIT on the road map of career in technology for aspiring students in the present globalized industrial context on June 15, 2017 issue.**

# Achievements & Recognition



**Coding team of GNIT “ Find and Fix” participated in Smart India Hackathon 2017 grand finale at Pune College of Engineering campus under the Ministry of Electronics and Information Technology.**



**Dr. Santanu Kumar Sen, Principal, GNIT has been selected as Member in Academic Advisory Council with other noted and eminent academicians with rich functional experience and domain expertise at Centre for Education Growth & Research (CEGR)**

# Achievements & Recognition



***ACM ICPC 2016 Asia Region Kolkata Site programming contest GNIT conducted the ACM ICPC 2016 India Finals jointly with ABV-IIITM Gwalior between 29<sup>th</sup> and 30<sup>th</sup> December 2016 hosting the best computer programming talents across South-Asia***

# Achievements & Recognition




## SMART INDIA HACKATHON '17

1-2 APRIL 2017

### GURU NANAK INSTITUTE OF TECHNOLOGY

157/F, Nilgunj Road, Panihati, Kolkata, West Bengal 700114

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VENUE

GNIT

Guru Nanak Institute of Technology, Sonapat, Kolkata



## GRAND FINALE



### SMART INDIA HACKATHON '17

WORLD'S BIGGEST DIGITAL MOVEMENT

1st & 2nd, April 2017

MINISTRY



Indian Council Medical Research (ICMR)

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Partners





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EXECUTIVE SUMMARY

To translate the Hon'ble Prime Minister, Shri Narendra Modi's vision of Digital India of bridging the digital divide in the country and further promote digital literacy in order to make development a comprehensive mass movement and put governance within everyone's reach in India, Ministry of HRD, All India Council for Technical Education (AICTE) proposes the Smart India Hackathon 2017, a unique initiative to identify new and disruptive digital technology innovations for solving the challenges faced by our country.

This initiative aims to institutionalize a model for harnessing the creativity and technical expertise of 3.0+ million students for direct benefit of our nation. Mr. Prakash Javadekar, Hon'ble Minister, Ministry of HRD is the Chief Patron of this unique initiative, while Dr. Anil Sahasrabudhe, Chairman, AICTE & Dr. Arund Dhanabande, Chairman, Founder & MD, Persistent Systems are the Chairman and Co-chairman of the organizing committee of this initiative respectively. NIC, MyGov, NASSCOM, UGC and Ramkrishna Misioni Prabodhini are co-organizers along with several union ministries as partners in this initiative.

Smart India Hackathon 2017 will be a computer programming competition which will involve all Engineering colleges with a target to approximately 30 Lakh students from across India and plan to challenge the students to think out-of-the-box and offer innovative ideas to build smart applications which will help address major real time problems in the country.

Guru Nanak Institute of Technology, a renowned technological institute under JIS Group located at Sonapat, Kolkata is the only nodal centre in West Bengal for the event out of 26 such premier centres in India hosting hundreds of talented student computer programmers from all corners of India on a 36 hour Non-Stop Coding Challenge solving complex real life problems.

Hackathon Schedule



Organizers & Partners



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Book your guided tour slot to witness the exciting historic event at

<https://docs.google.com/forms/d/e/1FAIpQLSf0BhO0egrpP9DgeZOxXnwMBISyO11HgJLSXFRnXu3XEQfw/viewform>

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For latest updates and photo coverage follow

<https://www.facebook.com/Guru-Nanak-Institute-of-Technology-622596287874954/?fref=ts>

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9830474617 / 9432012681 FOR FURTHER INFORMATION

Guru Nanak Institute of Technology has selected nodal centre to organize most prestigious event of our country, "SMART INDIA HACKATHON 2017" GRAND FINALE on 1<sup>st</sup> and 2<sup>nd</sup> April 2017

# Achievements & Recognition



**Dr. (Mrs.) Kakali Bandyopadhyay**, Dept. of Food Technology, GNIT was invited as expert panelist by renowned TV Channel **R Plus News** for a live programme on the *Safety of Street Food*



Prof (Dr) J K Das, Head, Department of Electrical Engineering, Guru Nanak Institute of Technology on the live forum of DD Bangla titled “Ki Hote Chai” on 12.05.2017.



**Ms Medha Pal**, Department of Food Technology (2016 pass-out batch) received Gold Medal at *8th Annual Convocation of MAKAUT on 3rd May 2017* for securing 1st position in B.Tech , FT Course.

# Achievements & Recognition



**Mr RAJARSHI CHAKRABORTY, faculty of ASHU (Mechanical) secured third position in M. Tech Mechanical Engineering (2013-2015) batch under MAKAUT. During *8th Annual Convocation of Makaut on 3rd May 2017***



**Gurunanak Institute of Technology organized an “Open To All Fitness Awareness Camp” on 16th and 17th February 2017**

# Achievements & Recognition



Gurunanak Institute of Technology organized consecutive **Six no of Student Chapters** of the most prestigious **Institution of Engineers (India)** on **8th March 2017**



**Mr Chinmay Ghosh**, Assistant Professor, Mathematics is among only 03 successful candidates out of 1102 enrolled candidates in India in NPTEL Online course on Curves and Surfaces and have been placed in **Elite Category** after passing through rigorous All India Examination during September-October 2016



*DD Bangla telecast a live programme on the Scope of Electronics Instrumentation Engineering on 1st July 2016, with Ms Bapita Roy, Assistant Professor, Dept. of AEIE*

# Achievements & Recognition



**Mr Goutam Mondal**, Assistant Professor, Mathematics has secured the **First position among 815** enrolled candidates in India in *NPTEL Online course* on Stochastic Process (1) and have been placed in Elite Category after passing through rigorous All India Examination during September-October 2016.



Ms Debashruti Ganguly, Assistant Professor, BHM, delineated every aspect of Hospital Management in a *live talk show hosted by Doordarshan on 11 Nov 2016 between*



**Principal Prof (Dr) Santanu Kr Sen** has been selected as *Distinguished Fellow* of IET, UK in July 2016, Dr. Sen has also been selected as *Technical Committee Expert* for 24<sup>th</sup> WB Science Congress and awarded *Rastriya Shiksha Puroskar* by Centre for Education Growth and Research CEGR, New Delhi in 24 Sept 2016



Dr. Kakali Banyopadhyay, senior faculty member of Food Technology Department has been selected as *Technical Auditor* for *ISO 22000:2005 FSMS Audit* to be conducted by MS Certification Services Pvt. Ltd at Jalan Industrial Estate

# Achievements & Recognition



Principal, GNIT, Prof (Dr) Santanu Kumar Sen, was nominated as an expert panelist at the INFOCOM CIO CONNECT PROGRAMME during October 22 - 23, 2016 The Radisson Ffort Raichak, West Bengal.



Dr. Subhajit Ray, HOD, Department of Food Technology enumerated the scholastic and professional facets of Food Technology as he went live on talk show hosted by Doordarshan (DD Bangla) on 18 Nov.2016

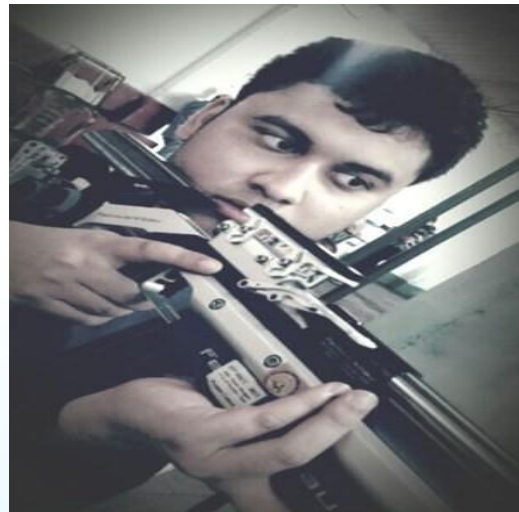


GNIT Students won 2nos 1<sup>st</sup> prize and 1 no. 2<sup>nd</sup> prize at the **ASTERICA, Annual Cultural function in Sagore Dutta Hospital on 24th November 2016**. Swarnadyuti Das secured the **1<sup>st</sup> position** in solo dance competition whereas The Group Dance team also won the **1<sup>st</sup> position** and another team rocked the ramps in the Fashion Show and became **Runner Up (2<sup>nd</sup> position)**.

# Achievements & Recognition



**Souvik Biswas** (4th year CSE) stood 2<sup>nd</sup> in Creative Content Writing, organized by Stanford University, USA. He will be awarded by Barack Obama, honourable President of USA during the award giving ceremony.



**Sanjoy Kumar Sarkar**, First Year Electrical Engineering student of GNIT shall represent West Bengal at the *National Shooting Championship 2016* at Pune during December in the *Peep Sight Air Rifle* category. He was trained at the NCR Club which produced Olympian Jaydeep Karmakar earlier, Sanjay won several State and Pre-National Level prizes during last few years with his Feinwerkbau 700 rifle.



GNIT Students won the group Dance competition, "Feel the Beat", competing with fifteen colleges in **Calcutta Medical College** between 26<sup>th</sup> and 30<sup>th</sup> September 2016

# Achievements & Recognition



GNIT Football Team, won the Runner- up Trophy in the "7th Gulabi Devi Memorial Cup Football Tournament 2016" at BBIT during September 2016 competing with 16 teams from different engineering colleges of West Bengal.

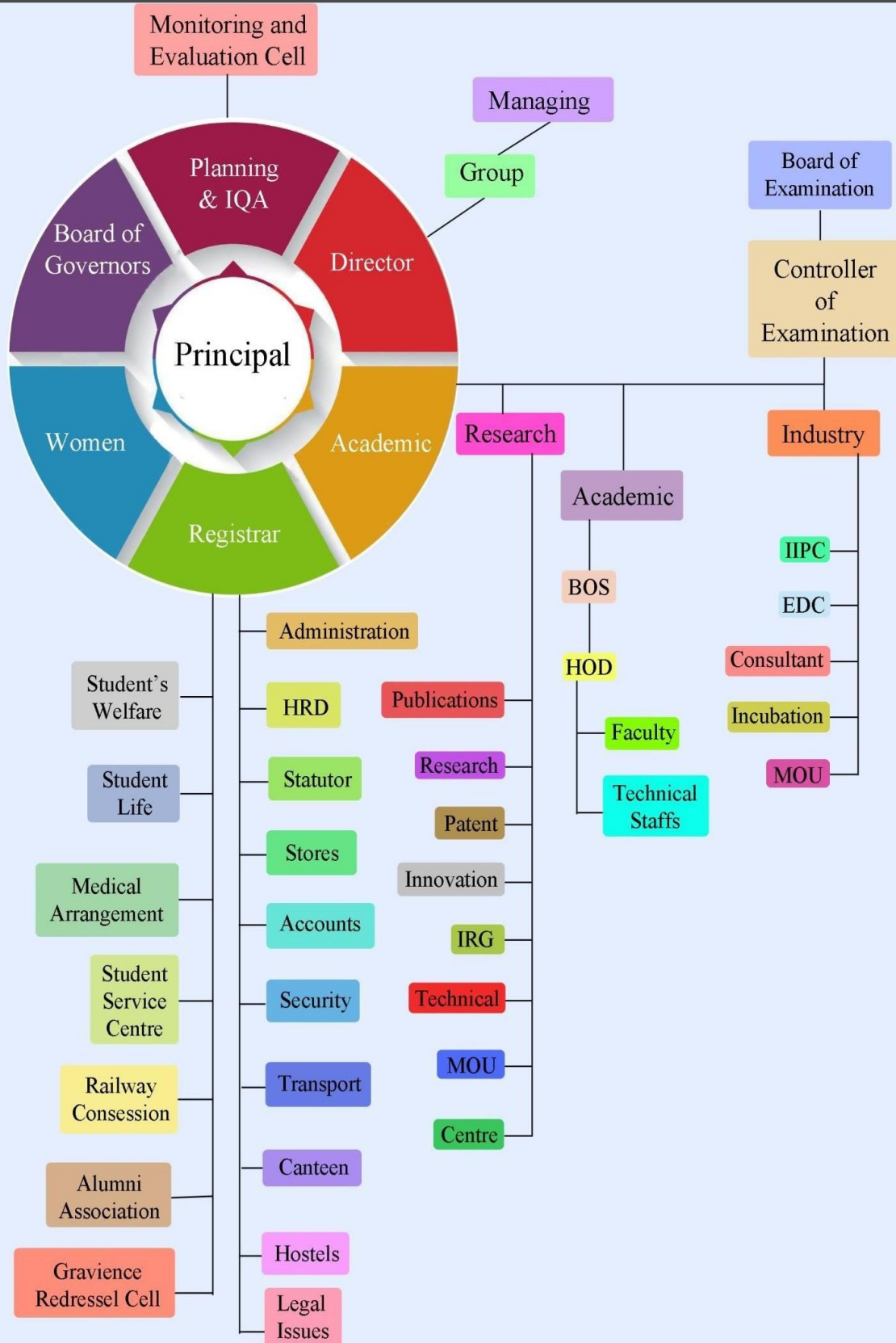


The Bharti Devi Excellence Award, was conferred to the student securing highest score (DGPA) in Bachelor of Technology, and Mr Somnath Chatterjee, Vice President and Center head of Capgemini Kolkata Delivery Center graced the occasion as Guest of Honor and delivered a special lecture on "Changes and Trends in Technology and its Impact on the Students" on 5<sup>th</sup> October.



GNIT hosted the INFOCOM CORPORATE PULSE on 3rd December 2016 by an engrossing and lively session with Mr Vicky Ray, the internationally acclaimed speaker and cyber threat intelligence expert.

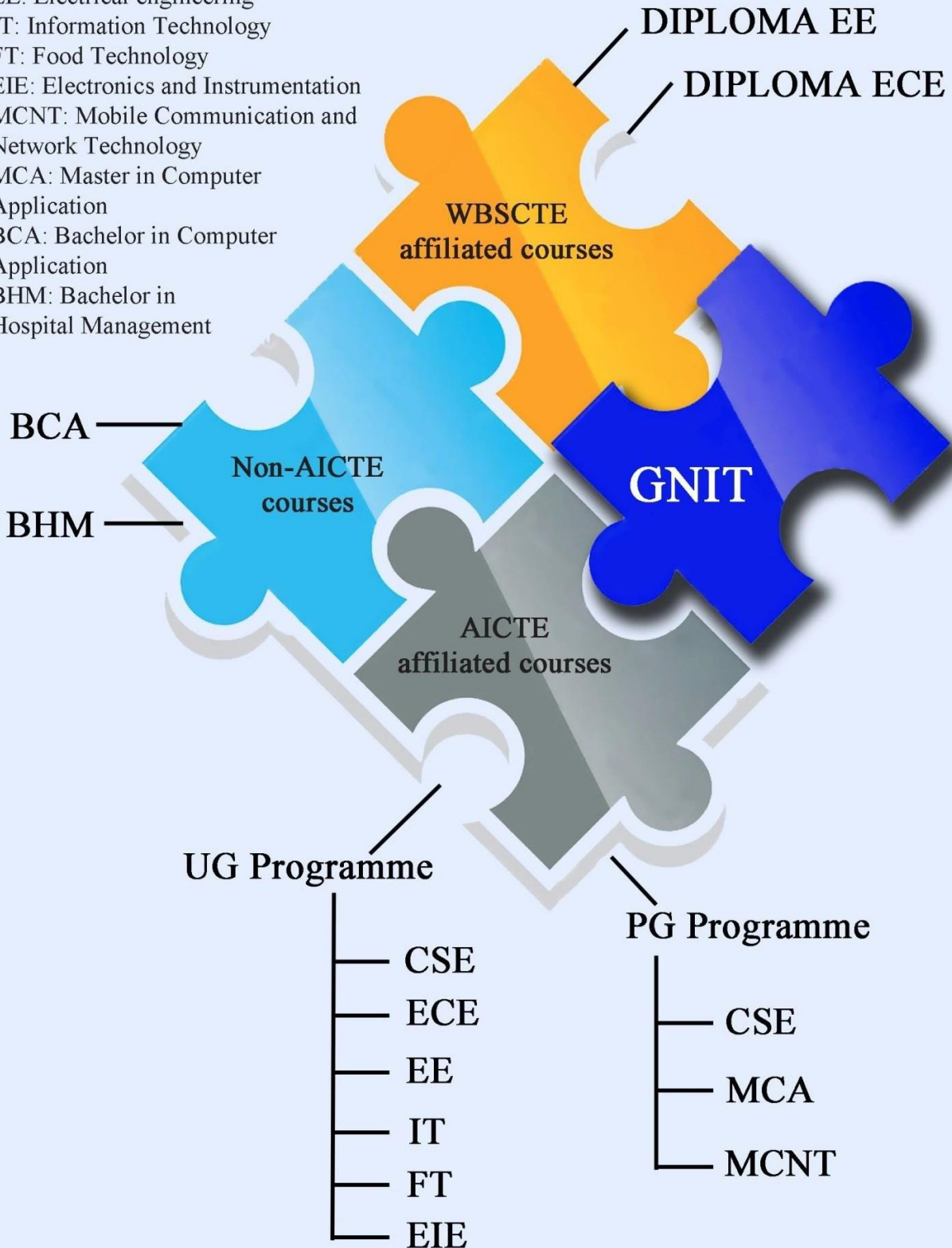
# Institutional Organogram



# 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**



**Dr. Adish Chakroborty**

**Registrar**



**Dr. Arun Kr. Mondal**

**Controller of examination**



**Dr. Sucharita Bhattacharya**

**In-charge**

**Diploma, GNIT**



**Dr. Paramita Banerjee**

**Coordinator**

**IQAC, GNIT**

# Departmental Heads



**Dr. Sucharita  
Chakroborty HOD,  
Applied Science & Humanities**



**Mrs. Srabani Kundu, HOD  
Computer Science &  
Engineering**



**Dr. Sunipa Roy HOD  
Electronics & Communication**



**Dr. Kakali Bandhpadhyay  
HOD  
Food Technology**



**Dr. J. K. Das  
HOD  
Electrical engineering**



**Ms. Debashruti Ganguly  
HOD  
Hospital Management**



**Dr. Baisakhi Das  
HOD  
Information Technology**



**Mrs. Bapita Roy, HOD  
Electronics and  
Instrumentation**



**Mr. Animesh Kar  
HOD  
Computer Application**



# Admission Report

**GNIT**

**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](http://www.gnit.ac.in)  
Email: [admission.gnit@jisgroup.org](mailto: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





# 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

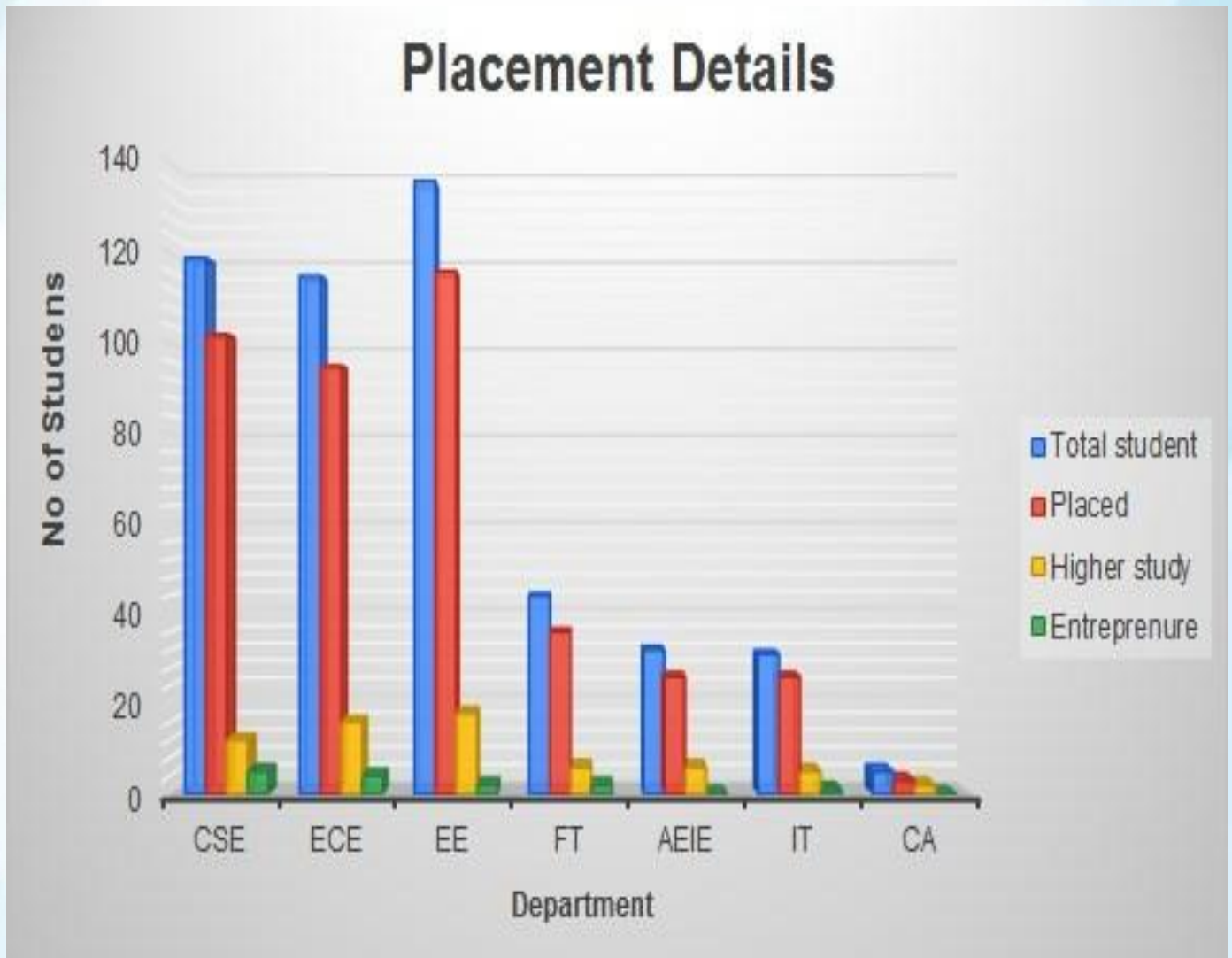
MBA (2 Years)					
Particulars	1st Sem	2nd Sem	3rd Sem	4th Sem	Total
Application Kit (one time)	1000				
Admission Fees(one time)	5000				
Registration Fees (one time)	2600				
Caution Deposit	10000				
Library Fees Per Sem	1000	1000	1000	1000	
Student Activity Fees Per	500	500	500	500	
Tution Fees Per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



# 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 payroll 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 Futurist | Greppent Solution | Excel Orgo | Peol Technologies | Cyber Swift | Dhanush Engg. | Whitelion Technologies Pvt.Ltd. | CTS | VastuVihar | Trigent | Time Internet Group | Rivigo | Right Track (Humble Advisory) | Universal Hunt | CloudKlaptan | Tenneco Automotive | New Vision Software Pvt Ltd | Whitelion Technologies Pvt.Ltd. | Keross | Sterlite Tech | Antedea | Amazon | Nimbus Systems | DemandFarm | Amazon | JBS Enterprises Pvt Ltd | Seap Infotech | Asahi India Glass | Qube Cinema Technologies | Subex | Irvine Infocom | CTS | Lowe's Service India Pvt Ltd

# 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: 50633

Reference Books: 5199

Hard copy Journal & Magazine: NIL

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: 7620+

CD/DVD: 1248

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

# Library Resources

## **Institutional Membership**

We are collaborated with

### **On-Line Text based Information for IEEE ASPP+POP COMBO PACKAGE**

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

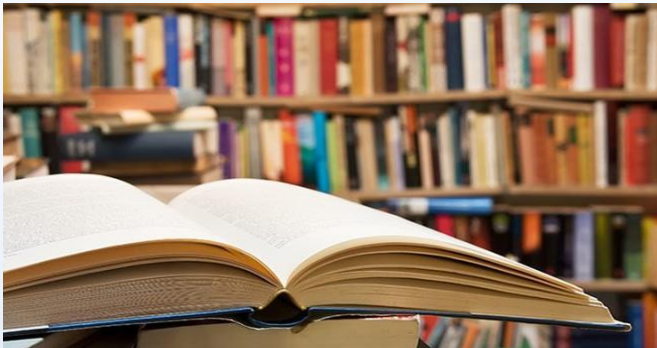
Two management training video for three weeks

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 of India (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



# MOU Details

<b>Name of the Dept</b>	<b>Name of organization</b>	<b>Type (Academics/ Industry/ Research Institute)</b>	<b>Program Highlights/ Objectives</b>	<b>Year of signing MoU</b>
EE	Electro-mech&Transtech Pvt. Ltd.	Industry	The objective of this MOU between Department of Electrical Engineering-Dept, 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.	29/06/2017



# **IT RESOURCES**

# IT Resources

## Hardware

**SERVER - 6**

**DESKTOP - 777 (including 11 Workstation,)**

**LAPTOP- 21**

**LCD Projector -12**

**Switches - 41**

**Firewall And Routers - 1 (Cyberoam 500ing Firewall),  
1 (Cisco 2800 router),  
1 (CISCO Rv 130 vpn Router)**

**Printers -36**

**Scanners - 14**

**Photocopiers -1**

**Video Conferencing Systems-1**

**CCTV Cameras - nil**

**UPS = 50(34 not working)**

**125 KVA DG**



# IT Resources

## Services

### **Injternet Bandwidth -**

10 Mbps Average from campus Infrastructure from 50 Mbps Railtel,4 Mbps Alliance Broadband Lease Line Connection and BSNL LL-SULABH CTD with Rental 160 Plan.

**1 Gbps CAT6 and 10/100 CAT5 Intranet - connected**

**Central computing Facilities: yes**

**MHRD's QEEE Infrastructure :**

**Microsoft Exchange mail server: managed by Hash Technologies**

**WiFi Facility throught 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)

	<b>Depart-ment</b>	<b>Software</b>
<b>Application Software</b>	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

Application Software	Depart-ment	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	<b>Photoshop CS6 – 300 points (single license) – (Order no- 137552490) 18 march 2013</b> <b>Fundamental of Computing &amp; programming(1 dvd)- perpetual - PO/0082/11-12</b> <b>Microsoft Server 2003 Standard edition (3 CD) – single user Licence.</b>
	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**

# Events Organized



The thrilling Grand Finale of **TESSERACT 2017** witnessed exciting battle of gut, grit and brain through out the day amidst lots of fun and entertainment



A workshop was organized at GNIT, on **MANUAL AND AUTONOMOUS ROBOTICS** on **14th February 2017**

# Events Organized



**ACM ICPC 2016 Asia Region Kolkata Site** programming contest GNIT conducted the **ACM ICPC 2016 India Finals** jointly with **ABV-IIITM Gwalior** between **29<sup>th</sup> and 30<sup>th</sup> December 2016** hosting the best computer programming talents across South-Asia

# Events Organized



Mr Arvind Singhatiya Vice President – Corporate Affairs, OLA conducted a Interactive Session on career building and challenges of entrepreneurship and start ups, with students on 5th August, 2016.



GNIT celebrated the auspicious occasion of “Raksha Bandhan”, on 12th August in association with the Brahma Kumaris,



GNIT celebrated the 14th Foundation Day by organizing, a tree plantation program led by all Faculty and Staff members on 16th August, 2016.





# Events Organized



GNIT host Smart India Hackathon 2017 Grandfinale 1-2April,2017

# Events Organized



**Recent Trends in Power System and Smart Applications at GNIT Auditorium on 3rd March 2017.**



**Annual Spring Festival, GNIT celebrates the season of color, creativity and life on 10th March 2017**

# Events Organized



***celebrating the International Yoga Day on 21<sup>st</sup> June 2017***



**Neuro Linguistic Programming On Personal Power and Crisis management" on 22 May 2017**

# Events Organized



**Women's Grievance Redressal Cell (WGRC), GNIT in association with the Department of Applied Science & Humanities (ASHU) and the NSS Unit celebrated International Women's Day 2017.**



**DEPARTMENT**

# Department of Computer Science & 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

## **PO (PROGRAM OUTCOMES)**

- a) **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- b) **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- c) **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- d) **Conduct investigations of complex problems** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
- e) **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.
- f) **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- g) **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- h) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- i) **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- j) **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.
- k) **Project Management and Finance:** Demonstrate knowledge and understanding of 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.
- l) **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.

## **PSO (PROGRAMME SPECIFIC OUTCOMES)**

- **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.

**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



**Mrs. Srabani Kundu**

*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.*

## DEPARTMENTAL ACHIEVEMENTS

### **Faculty Achievements:**

- **Ipsita Saha** was Invited speaker at the workshop on ‘Smart City: Sustainable Urban Development’ at Mayfair Lagoon, Bhubaneswar, between September 21-22 organized by the German House for Research and Innovation (DWIH) in New Delhi, Heidelberg Centre South Asia (HCSA), School of Planning and Architecture, Observer Research Foundation and the Bavarian-Indian Centre, in collaboration with the Indian Institute of Architects.
- **Nirupam Saha and Sourish Mitra** was nominated for Inspire Excellence Award – The Annual Event (Technical Track), 2017 organized By: Infosys Campus Connect Team, Infosys Pvt. Ltd.
- **Ipsita Saha** received the Excellent Paper Award at the prestigious 6th International Conference, ICONSWM 2016 for the paper titled "A Study to Establish an Energy Efficient Sustainable Business Model in Virtual ERP".

- **Srabani Kundu** was selected as a Judge in one of the presentation sessions in the National Conference FOSET-2017.
- **Srabani Kundu** received Best Student Paper Award at IEEE COMSOC Kolkata Chapter

### ***Student Achievements:***

- **Swastik Bhattacharya, Srotoswini Chandra, Diren lalwani, Dipesh Basu Choudhury, Sayanjit Dey, GNIT student teams from West Bengal selected in Grand Finale by AICTE-ECI Chhatra Vishwakarma Awards -2017 under mentorship of Mr. Sourish Mitra**



- **Sanika Dhar, Winner of group dance competition in “Melange 2017, the annual fest of National Medical College.**



- **Dipesh Basu Chowdhury, Jishnu Mondal Hardware Project demo Submission to CII organized by InQube Innoventures, Centre for advanced communications**
- **Kunal Singh, Pritam Ray and Dhiren Ladwani participated in Eastern Region Finale of ACM ICPC**
- **Subhamoy Das and Sudip Dey won champion trophy in inter college football tournament.**

- **Sukanya Rakshit got ACM KOLKATA project award for the project titled "SMART MIRROR- A SECURED APPLICATION OF ARTIFICIAL INTELLIGENCE RECOGNISING HUMAN FACE AND VOICE"**
- **Jacky Shaw took the first position in Model Display (Model Name: Solar Grass Cutter) in Tesseract-2017.**
- **Souvik Biswas Stood 2nd in creative content writing, organized by Stanford University, USA.**
- **Sanika Dhar Won the group Dance competition, "Feel the Beat", competing with fifteen colleges who participated in RHAPSODY 16, the Fest organized by Calcutta Medical College.**
- **Rudraraj Dasgupta Won the runner's up trophy in the "7th Gulabi Devi Memorial Cup Football Tournament 2016". Sayan Das Won the Man of the Series in the in this competetion.**
- **Souvik Biswas Stood 1<sup>st</sup> the entrance examination of CAMBRIDGE UNIVERSITY, UK and received scholarship of Rs.5.0 lacs for studies**
- **Santanu Karmakar Ranked 311 (all India) in Indian Engineering Olympiad 2016**

### **DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)**

- **Department of Computer Sc. & Engineering conducted a Workshop on "Two Days Workshop on Web Page Development using HTML, Java Script and CSS" on 16-17<sup>th</sup> August, 2016 for 3<sup>rd</sup> year CSE.**



- **Department of Computer Sc. & Engineering conducted a Seminar on Invited talk on Skill Development in System Programming on 18<sup>th</sup> August, 2016.**



- **Department of Computer Sc. & Engineering has organized a seminar on "Information and Cyber Security" on 18<sup>th</sup> October, 2016.**



- **Department of Computer Science & Engineering of Guru Nanak Institute of Technology in collaboration with TechTree Technologies organized a one day seminar on 'Big data and Hadoop' on 6<sup>th</sup> March, 2017.**



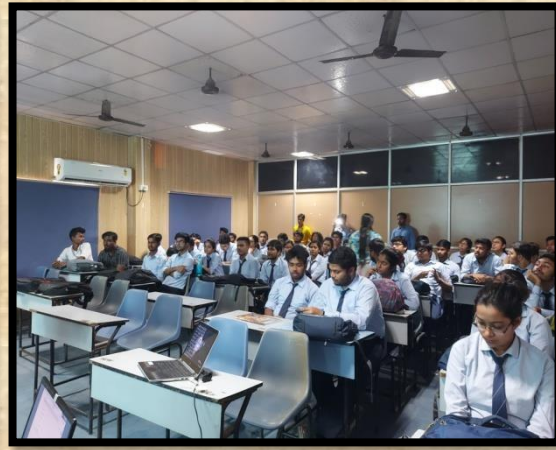
- **Department of Computer Science & Engineering of Guru Nanak Institute of Technology in collaboration with Webtek labs Pvt. Ltd. organized a one day seminar on ‘Android and Emerging Trends’ on 15<sup>th</sup> March, 2017.**



- **Department of Computer Science & Engineering of Guru Nanak Institute of Technology in collaboration with Micro-Pro organized a one day seminar on ‘Android and Emerging Trends’ on 7<sup>th</sup> April, 2017.**



- **Department of Computer Science & Engineering of Guru Nanak Institute of Technology in collaboration with ARDENT Computech Pvt. Ltd. organized a one day seminar on ‘Cyber Security’ on 21<sup>st</sup> April, 2017.**



- Department of Computer Science & Engineering of Guru Nanak Institute of Technology in collaboration with GlobSyn Business School, Kolkata organized a one day seminar on 'Python' on 5<sup>th</sup> May, 2017.



- Department of Computer Science & Engineering of Guru Nanak Institute of Technology organized five days Faculty Development Program on Data mining & Data warehouse on 26<sup>th</sup>-30<sup>th</sup> Dec, 2016.

**Faculty Development Program**  
On  
**Data mining & Data warehouse**  
**26<sup>th</sup>-30<sup>th</sup> Dec, 2016**

*Organized by:*  
**Department of Computer Science and Engineering**  
**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

**Chairperson**  
Prof. (Dr.) Santanu K Sen, Principal, GNIT

**Convenor**  
Ms. Sraboni kundu, Asst. Prof. & TIC, 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

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

- Department of Computer Science & Engineering of Guru Nanak Institute of Technology organized five days Faculty Development Program on Advanced Computing Technology on 26th-30th Jun, 2017.

**Faculty Development Program**  
On  
**Advanced Computing Technology**  
**26<sup>th</sup>-30<sup>th</sup> Jun, 2017**

Organized by:  
**Department of Computer Science and Engineering**  
**Guru Nanak Institute of Technology**  
**GNIT**  
In collaboration with  
**ARDENT COMPUTECH PVT LTD**



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

**Organizing Committee**  
Mr. Rajnaji Islam, Asst. Prof., Dept. of CSE  
Mr. Mloy Dhar, Asst. Prof., Dept. of CSE  
Mr. Sourish Mitra, Asst. Prof., Dept. of CSE  
Mr. Krishnendu Choudhury, JTA, Dept. of CSE

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


- Department of Computer Science & Engineering of Guru Nanak Institute of Technology organized five days Staff Development Program on Network Handling on 19th-23th Dec, 2016.

**Staff Development Program**  
On  
**NETWORK HANDLING**  
**19<sup>th</sup>-23<sup>th</sup> December, 2016**

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



**Department of Computer Science & Engineering**  
**Guru Nanak Institute of Technology**  
**GNIT**  
In collaboration with  
**ARDENT COMPUTECH PVT LTD**



Guru Nanak Institute of Technology  
157/F, Nilgunj Road, Panihati,  
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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  
Mr. Suraj Kr. Choudhary, 4<sup>th</sup> Year IT Student  
Ms. Ritika Mondal, 3<sup>rd</sup> Year IT Student  
Mr. Rajarshi Saha, 2<sup>nd</sup> Year IT Student

**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

**Program Schedule**

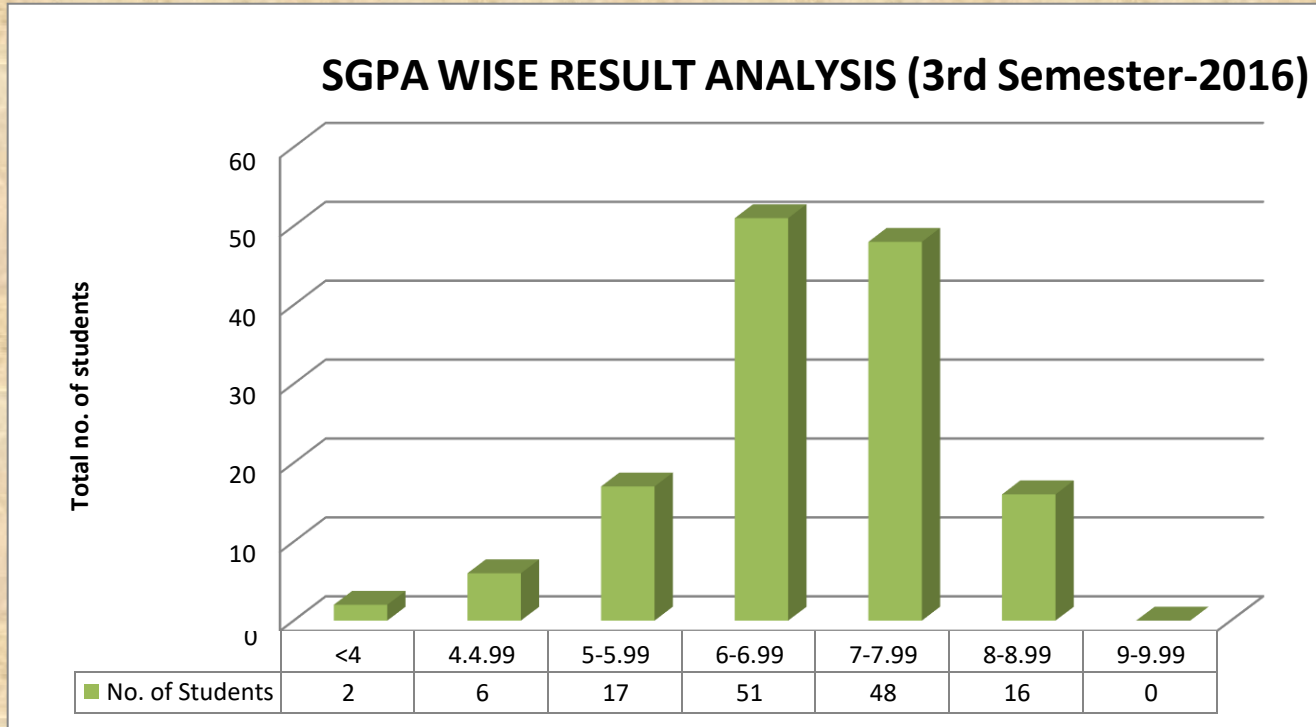
Registration	: 10:00 a.m.
Technical Session I	: 10:30 a.m. - 1:00 p.m.
Interactive Session	: 1:00 p.m.-1:30p.m.
Break	: 1:30 p.m.-2:00p.m.
Valedictory Session	: 2:00p.m. Onwards

## RESEARCH & PUBLICATION

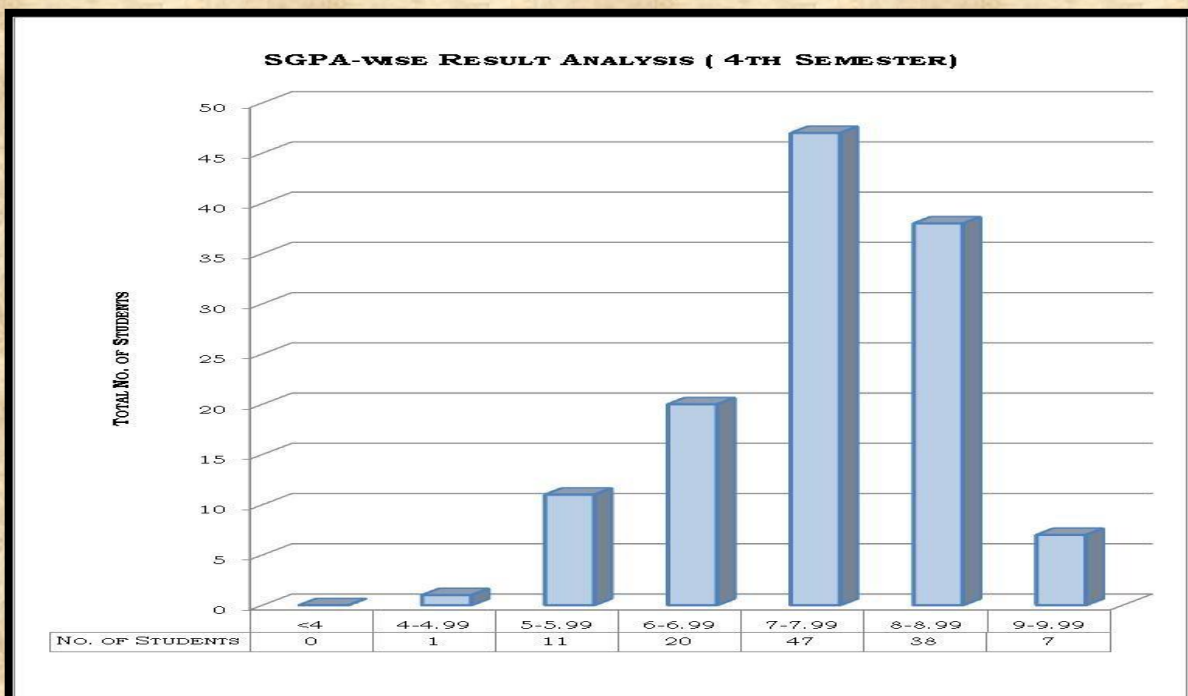
<b>Dept</b>	<b>National Journal</b>	<b>National Seminar/Conference</b>	<b>International Journal</b>	<b>International Seminar/Conference</b>	<b>Total</b>
<b>CSE</b>	<b>0</b>	<b>4</b>	<b>7</b>	<b>6</b>	<b>17</b>

# RESULT ANALYSIS

## SGPA WISE RESULT ANALYSIS (CSE) AY 2016-17

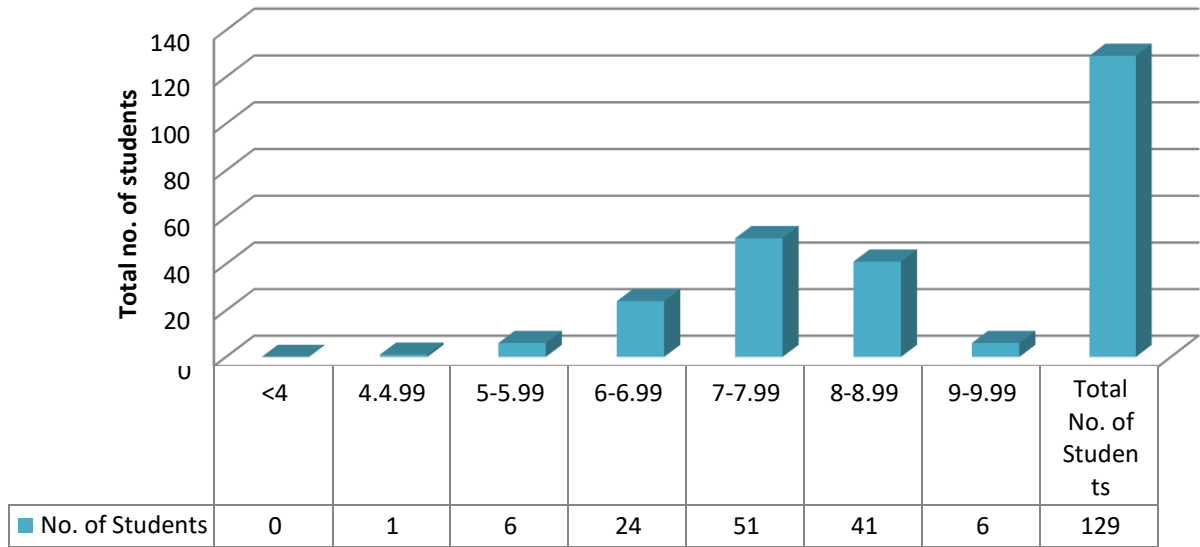


### SGPA-wise Result Analysis (CSE 3rd Sem)

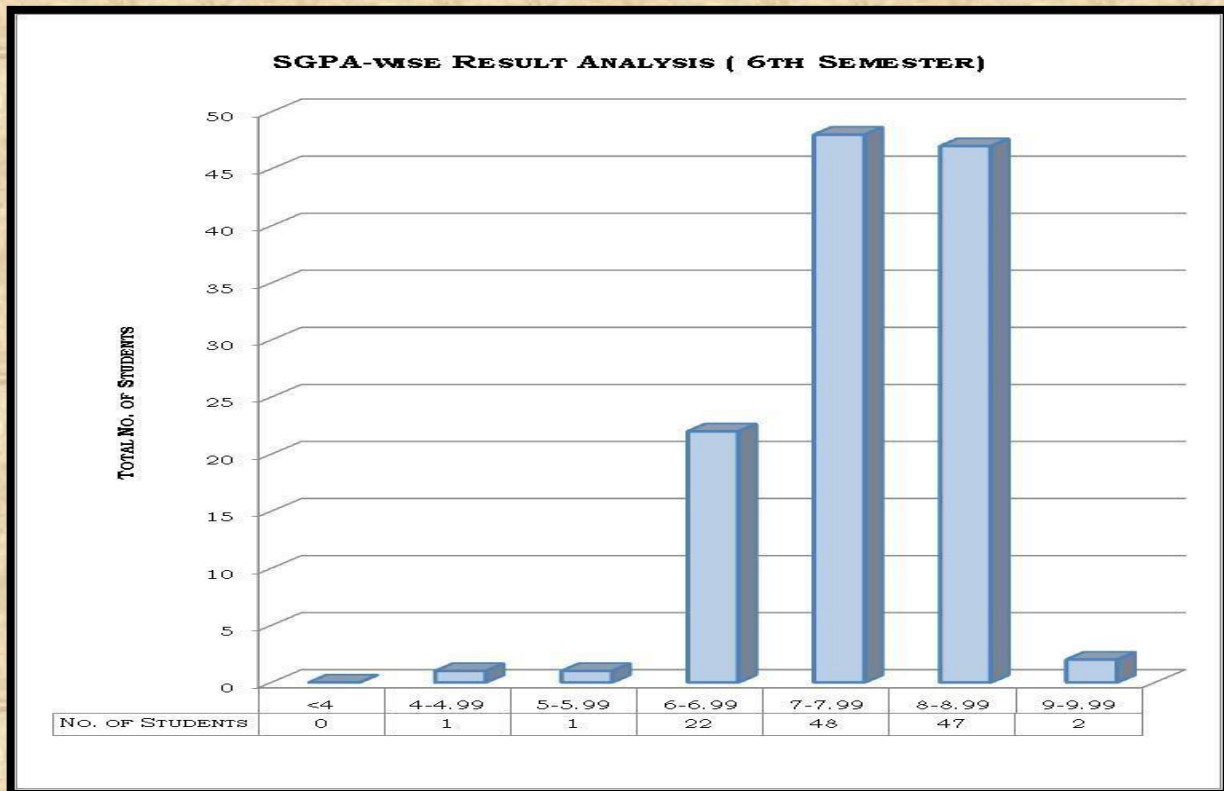


### SGPA-wise Result Analysis (CSE 4th Sem)

## SGPA WISE RESULT ANALYSIS (5thSemester-2016)

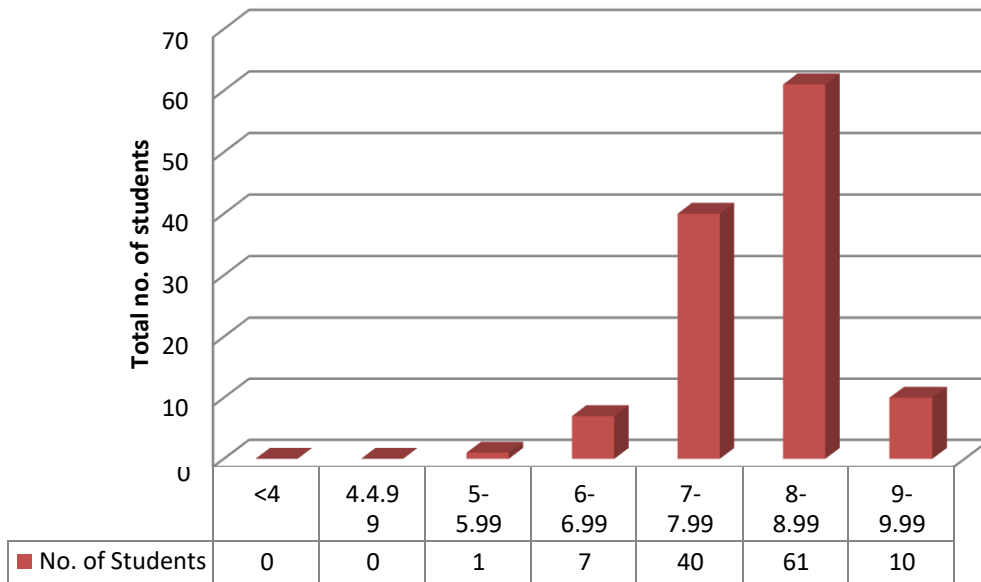


### SGPA-wise Result Analysis (CSE 5th Sem)



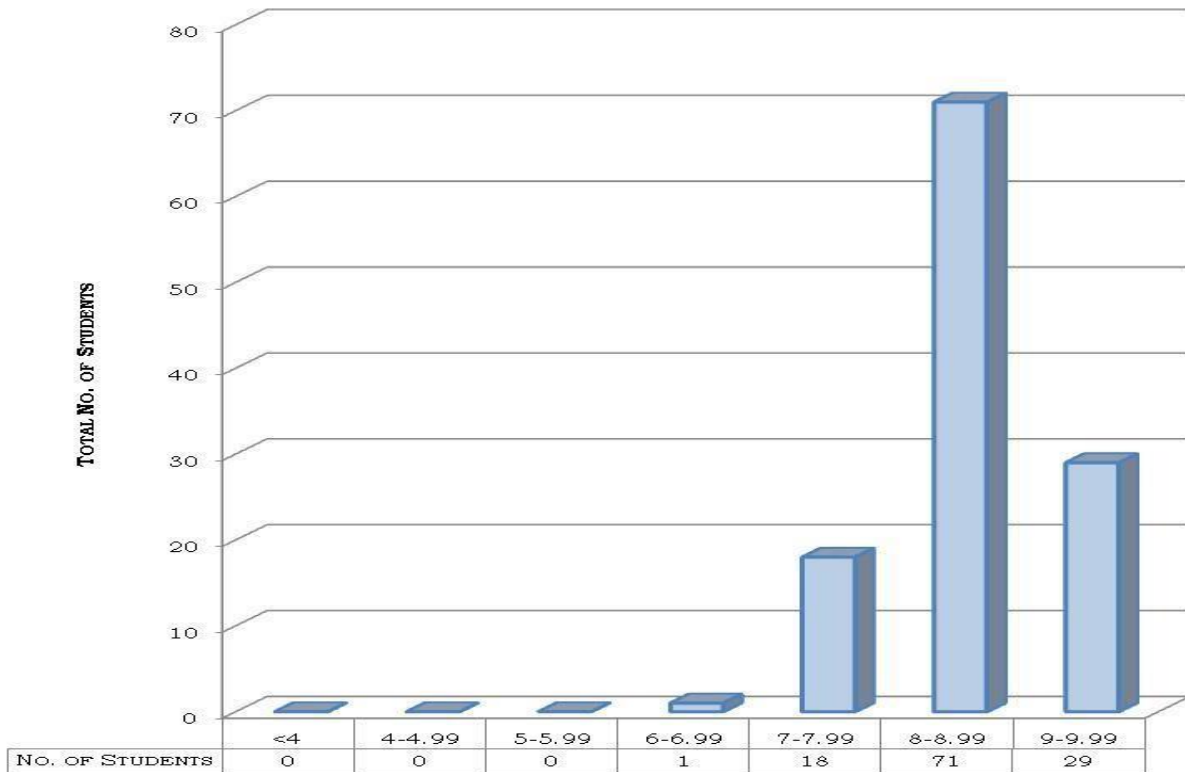
### SGPA-wise Result Analysis (CSE 6th Sem)

## SGPA WISE RESULT ANALYSIS (7thSemester-2016)



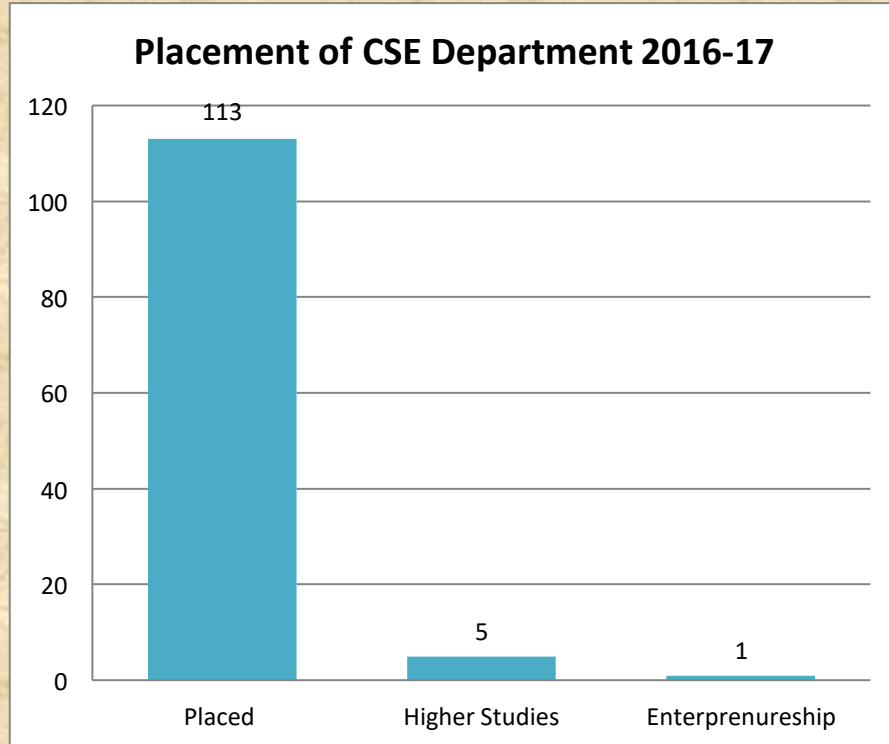
**SGPA-wise Result Analysis (CSE 7th Sem)**

## SGPA-WISE RESULT ANALYSIS ( 8TH SEMESTER)



**SGPA-wise Result Analysis (CSE 8th Sem)**

## PLACEMENT, HIGHER STUDIES, ENTERPRENURESHIP



## **Department of Electronics & Communication Engineering**

### **VISION OF THE DEPARTMENT**

**Impart quality education to create world class technocrats and entrepreneurs with new ideas and innovations to meet industry expectations through advanced research.**

### **MISSION OF THE DEPARTMENT**

- **To educate our graduate engineers, to develop and deliver Quality academic programmes 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**

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

## **PO (PROGRAM OUTCOMES)**

- a) **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- b) **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- c) **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- d) **Conduct investigations of complex problems** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
- e) **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.
- f) **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- g) **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- h) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- i) **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- j) **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.
- k) **Project Management and Finance:** Demonstrate knowledge and understanding of 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.
- l) **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.

## **PSO (PROGRAMME SPECIFIC OUTCOMES)**

- **PSO1:** 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.
- **PSO2:** 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.
- **PSO3:** 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.

**Courses Offered:**

4 years B.Tech and 2 years M.Tech in Electronics and Communication 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).

## HOD'S MESSAGE



**Dr. Sunipa Roy**

**B**eing 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.

## DEPARTMENTAL ACHIEVEMENTS

### *Faculty Achievements:*

- **Arun Kumar Mondal and Soma Manna** published paper on “Optimal Path Selection for AODV Routing Protocol in MANET” at IEEE and CRC Press with Taylor & Francis Group sponsored International Conference ACCET 2016 Accepted on 21ST and 22nd OCTOBER 2016.
- **Suparna Biswas** published paper on “An Efficient Face Recognition Method via Compressive Sensing” at 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), Accepted on 19-20 October, 2016.
- **Dipasri Saha** published paper on “Implementation of MPPT Method using BBO Algorithm for PV Generation System” at 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), Accepted on 19-20 October, 2016.
- **Dr. Arun Kr. Mondal** selected as a **Session Chair** on 20th August 2016 at Narula Institute of Technology Agarpara National conference NCACERS 2016.
- **Dr. Arun Kr. Mondal**, Reviewed a papers of International Conference ACCET 2016 to be held in MCET.
- **Koushik Pal** reviewed 2 international Journal papers published by Science Publishing Group, USA in Aug- Sept 2016.
- **Koushik Pal** reviewed one Book for IGI Global Publishing house, USA in Aug 2016.
- **Anurima Majumdar** achieved 2nd position in “Current Practices on Mentorship and Future Innovative Practices for Better Mentorship for Better GNIT” on 7<sup>th</sup> September, 2016. She scored 56.3 marks out of 70.
- **Avali Ghosh, Sisir Kumar Das, Annapurna Das** published paper on “Analysis of Crosstalk in High Frequency Printed Circuit Boards in Presence of Via” in International Conference on Electromagnetics in Advanced Applications IEEE- APS Topical Conference on Antennas and Propagation in Wireless Communications 2017 on September 11-15, 2017.
- **Suparna Biswas** published paper on “PCA based Face Recognition in Curvelet Compressive Measurements” in First International Conference on Computational Intelligence, Communications, and Business Analytics on March 24-25, 2017.
- **Dr. Sunipa Roy et.al** reviewed paper on “Development of microcontroller based integrated gas sensor system for detecting combustible gases” in IET Circuit Device and Systems (IET). Communicated in Peer reviewed archival journal.

### ***Student Achievements:***

- **Vishal Kr. Karwa and Sudipta Ghosh** published paper on “On Outage Minimizing Routing in Multi-hop Wireless Network at First International Conference on Advancement of Computer Communication & Electrical Technology (ACCET-2016) on 21st and 22nd OCT. 2016.
- **Aditi Bhowmik, Arka Chakraborty, Monalisa Debnath, Arnab Chatterjee** published paper on “Face Recognition using Spatial and Temporal features “ at International Conference on Microelectronics, Circuits and Systems, Micro 2016 on 9th-10th July,2016.
- **Kumar Ankit, Manish Kumar, Manoj Kumar Rawani, Binod Kumar** published paper on “A Mobile Operated ROBOT using DTMF Decoder and Motor Driver at International Conference on Microelectronics, Circuits and Systems, Micro 2016 on 9th-10th July,2016
- **Saikat Sarkar, Satyaki Nan, Priyankar Ghosh, Moinak Adhya, Sandip Kumar Singh** published paper on “Bidirectional Visitor Counter with security system and Automated Room Light Controller” at 8th All India Inter Engineering College Academic Meet – 2017and Innovative Model Competition For A Sustainable Society on 19 th MARCH, 2017.
- **A.Bhaumik. A.Das, A. Yadav, A.Shaw, A.K. Misra** published paper on “Non conventional energy sources using piezoelectric crystal for wearable electronics” IEEE Sponsored International conference IEMENTECH on 28-29 April,2017 Science City, Kolkata.
- **P.Chowdhury, S. Mahato, S. Das** published paper on “TEM analysis of microheater using SiO<sub>2</sub>/Si<sub>3</sub>N<sub>4</sub> composite membrane for long term gas sensor applications” in IEEE Sponsored International conference IEMENTECH on 28-29 April,2017Science City, Kolkata.
- **Aiswarya Roy (3<sup>rd</sup> yr )** Stood second Infosys Campus Connect.
- **Rituparna Das, Rishiraj Singh (4<sup>th</sup> yr )** Stood second FOSET Academic meet.
- **Ananya Bhaumick** presented paper at IEEE Sponsored International conference on 28-29 April,2017 at Science City, Kolkata.IEM, Salt Lake.
- **Asmita Das** presented paper at IEEE Sponsored International conference IEMENTECH on 28-29 April,2017 at Science City, Kolkata.IEM, Salt Lake.
- **Kalpataru Samanta** scored in GATE exam 27.76% in 2017.
- **Pratyasa Barui** performed dance in a "Dance Programme" organized by Govt of Bangladesh.

## DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)

### a. Organized

- **Mr Koushik Pal and Mr Sayan Roy Chaudhuri, Assistant Professor of ECE Dept, organized a “Two Days Workshop on PCB Design and Fabrication” in association with MyWBUT 15-16 Sept 2016.**



- **Department of Electronics and communication Engineering, GNIT organized one day Seminar on “Internet of Things(IOT)” on 17.03.2017.**



- **Department of Electronics and communication Engineering, GNIT organized “Tech - Q QUIZ Contest” On 11.04.2017.**
- **Department of Electronics and communication Engineering, GNIT organized two days workshop on “Microcontroller based Embedded System” on 20.04.2017 and 21.04.2017.**






- Department of Electronics and communication Engineering, GNIT published wall magazine on Sept 2016.
- Department of Electronics and communication Engineering, GNIT organized PTM for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year students on Oct, 2016.
- Department of Electronics and communication Engineering, GNIT organized Five Days Online National Faculty Development Program On “Modelling and Simulation Tools in Electronics and Communication Engineering” on 8<sup>th</sup> January, 2017 to 12<sup>th</sup> January, 2017.

<p>Five Days Online National Faculty Development Program On</p> <p><b>“Modelling and Simulation Tools in Electronics and Communication Engineering”</b></p> <p>ON 8<sup>th</sup> January, 2017 To 12<sup>th</sup> January, 2017</p> <p>Organized by <b>Department of Electronics and Communication Engineering</b> <b>Guru Nanak Institute of Technology</b> <i>In Association with</i> IEEE Solid-State Circuits Society, Kolkata Chapter</p>  	 <p><b>Convener</b></p> <p>Dr. Sunipa Roy, HOD, ECE Dept., GNIT Dr. Suparna Biswas, Assistant Professor, ICE Dept., GNIT</p> <p><b>Coordinator</b></p> <p>Mrs. Palasri Dhar Assistant Professor, ECE Dept., GNIT</p> <p><b>Contact Info</b></p> <p>Dr. Sunipa Roy – 9830751850 Dr. Suparna Biswas – 8017432780</p>	<p><b>Organizing Committee</b></p> <p><b>Technical committee</b></p> <p>Dr. Sunipa Roy, Head, Dept. of ECE Dr. Suparna Biswas, Assistant Professor, Dept. of ECE Mrs. Palasri Dhar, Assistant Professor, Dept. of ECE</p> <p><b>Registration committee (Attendance)</b></p> <p>Mrs. Anura Ghosal, Assistant Professor, Dept. of ECE Mr. Koushik Pal, Assistant Professor, Dept. of ECE Mr. Sayan Roy Chaudhuri, Assistant Professor, Dept. of ECE Mrs. Sitala Pandey, Technical Assistant, Dept. of ECE Mrs. Dnyani Nandi, Technical Assistant, Dept. of ECE</p> <p><b>Feedback Committee</b></p> <p>Mr. Ramkrishna Mondal, Technical Assistant, Dept. of ECE Mr. Anulekh Chandra Ghatak, Technical Assistant, Dept. of ECE Mr. Avijit Deb, Technical Assistant, Dept. of ECE</p> <p><b>Certificate committee</b></p> <p>Dr. Suparna Biswas, Assistant Professor, Dept. of ECE Dr. Sarajit Basak, Assistant Professor, Dept. of ECE Dr. Koushik Pal, Assistant Professor, Dept. of ECE Mrs. Soma Manja, Assistant Professor, Dept. of ECE</p> <p><b>Media committee</b></p> <p>Dr. Avaji Banerjee, Assistant Professor, Dept. of ECE Mrs. Anurima Majumdar, Assistant Professor, Dept. of ECE Mrs. Swagata Bhattacharya, Assistant Professor, Dept. of ECE</p> <p><b>Advisory committee</b></p> <p>Prof. Dr. Santanu Kumar Sen, Principal, GNIT Prof. Dr. Anun Kumar Mondal, COE, GNIT Prof. Sekhar Ranjan Bhadra Chaudhuri, Dept. of ECE Dr. Kakali Baropadhyay, HOD, FT Dept., GNIT</p> <p><b>Finance Committee</b></p> <p>Mr. Soumikash, Accounts, GNIT Mr. Subhanik Bose, Accounts, GNIT Mr. Shantanu Dasgupta, Accounts, GNIT Mrs. Sumana Bhattacharjee, Staff, GNIT</p>
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<p><b>About the Institution</b></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&amp;D in multifaceted areas. It is a private engineering institution established by IS Group in 2003, located in Parkhat, Solapur, 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><b>About the Department</b></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 &amp; co-curricular activities to develop personal &amp; professional ethics and management. Furthermore students of the department published their research works in different reputed National and International journals and conferences.</p>	<p><b>ABOUT THE FDP</b></p> <p>The aim of this program is to provide an exposure to the various Modelling and Simulation Tools with hands on training and augment the experiential knowledge of faculty members and research scholars in Electronics and Communication field. Talks and hands on sessions on the tools will help in innovative teaching and learning of subjects like digital signal processing, microprocessor, VLSI designing and communication.</p> <p><b>Topics to be covered</b></p> <ul style="list-style-type: none"> <li>• VLSI designing using Cadence</li> <li>• Applications of microprocessor kits</li> <li>• Programming using C language</li> <li>• Microwave circuit design using HFSS</li> <li>• Paper writing skills using LaTeX</li> <li>• Hands on session on DSP kits</li> <li>• Model based design using Simulink</li> <li>• Understanding behavior of networks using NS2</li> </ul>	<p><b>SPEAKERS / RESOURCE PERSONS</b></p> <ul style="list-style-type: none"> <li>• Prof. Dr. Santanu Kumar Sen, Principal, GNIT</li> <li>• Dr. Agam Das Goswami, Assistant Professor Senior School Of Electronics Engineering, VIT A.P., NIT DURGAPUR</li> <li>• Dr. NandaDulal Jana, Assistant Professor Of CSE, NIT DURGAPUR</li> <li>• Mr. Samlak Chaudhury, Design Engineer II, Cadence Design Systems India Pvt Ltd</li> <li>• Mr. Sagar Mukherjee, Technical Lead, Sankalp Semiconductors (An HCL Technologies Company)</li> </ul> <p><b>Eligibility</b></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> <p>*Free Registration **Last date of registration: 5<sup>th</sup> January midnight. **E-certificates will be provided to the participants. **80% attendance is mandatory for getting the certificate</p>
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- Department of Electronics and communication Engineering, GNIT organized Five Days Online National Faculty Development Program On “Recent Trends in Electronics Industry” on 8<sup>th</sup> June 2017 to 13<sup>th</sup> June, 2017.

<p>Five Days Online National Faculty Development Program On</p> <p><b>“Recent Trends in Electronics Industry”</b></p> <p>ON 7<sup>th</sup> June, 2017 To 13<sup>th</sup> June, 2017</p> <p>Organized by <b>Department of Electronics and Communication Engineering</b> <b>Guru Nanak Institute of Technology</b> <i>In Association with</i> IEEE Solid-State Circuits Society, Kolkata Chapter</p>  	 <p><b>Convener</b></p> <p>Dr. Sunipa Roy, HOD, ECE Dept., GNIT Dr. Suparna Biswas, Assistant Professor, ECE Dept., GNIT</p> <p><b>Coordinator</b></p> <p>Mrs. Palasri Dhar Assistant Professor, ECE Dept., GNIT</p> <p><b>Contact Info</b></p> <p>Dr. Sunipa Roy – 9830751850 Dr. Suparna Biswas – 8017432780</p>	<p><b>Organizing Committee</b></p> <p><b>Technical committee</b></p> <p>Dr. Sunipa Roy, Head, Dept. of ECE Dr. Suparna Biswas, Assistant Professor, Dept. of ECE Mrs. Palasri Dhar, Assistant Professor, Dept. of ECE</p> <p><b>Registration committee (Attendance)</b></p> <p>Mrs. Anura Ghosal, Assistant Professor, Dept. of ECE Mr. Koushik Pal, Assistant Professor, Dept. of ECE Mr. Sayan Roy Chaudhuri, Assistant Professor, Dept. of ECE Mrs. Sitala Pandey, Technical Assistant, Dept. of ECE Mrs. Dnyani Nandi, Technical Assistant, Dept. of ECE</p> <p><b>Feedback Committee</b></p> <p>Mr. Ramkrishna Mondal, Technical Assistant, Dept. of ECE Mr. Anulekh Chandra Ghatak, Technical Assistant, Dept. of ECE Mr. Avijit Deb, Technical Assistant, Dept. of ECE</p> <p><b>Certificate committee</b></p> <p>Dr. Suparna Biswas, Assistant Professor, Dept. of ECE Dr. Sarajit Basak, Assistant Professor, Dept. of ECE Dr. Koushik Pal, Assistant Professor, Dept. of ECE Mrs. Soma Manja, Assistant Professor, Dept. of ECE</p> <p><b>Media committee</b></p> <p>Dr. Avaji Banerjee, Assistant Professor, Dept. of ECE Mrs. Anurima Majumdar, Assistant Professor, Dept. of ECE Mrs. Swagata Bhattacharya, Assistant Professor, Dept. of ECE</p> <p><b>Advisory committee</b></p> <p>Prof. Dr. Santanu Kumar Sen, Principal, GNIT Prof. Dr. Anun Kumar Mondal, COE, GNIT Prof. Sekhar Ranjan Bhadra Chaudhuri, Dept. of ECE Dr. Kakali Baropadhyay, HOD, FT Dept., GNIT</p> <p><b>Finance Committee</b></p> <p>Mr. Soumikash, Accounts, GNIT Mr. Subhanik Bose, Accounts, GNIT Mr. Shantanu Dasgupta, Accounts, GNIT Mrs. Sumana Bhattacharjee, Staff, GNIT</p>
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## b. Participated

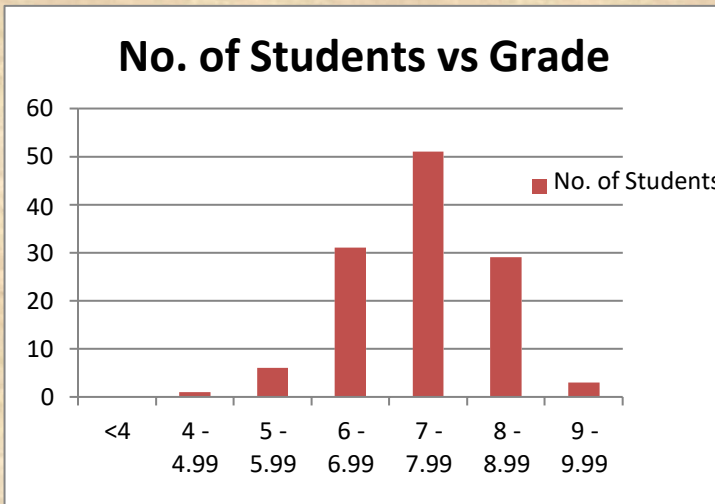
- **Mr. Sayan Roy Chaudhuri** attended the one week STTP on “**Embedded System Design**” at IIT KGP on 20-24 June 2016.
- **Dr. Arun Kr. Mondal** attended National Conference on “**Advanced Computation in Electronics & Remote Sensing,2016**” as a Session chair on 20th August2016.
- **Mr. Koushik Pal** participated National Seminar on “**Ethics in Academic Governance**” on 26-27 August 2016.
- All faculties and JTA of ECE dept, GNIT participated one day seminar on “**Internet Of Things (IOT)**” on 17.03.2017.
- All faculties and JTA of ECE dept, GNIT participated quiz contest on “**Tech - Q QUIZ Contest**” on 11.04.2017.
- All faculties and JTA of ECE dept, GNIT participated two days workshop on “**Microcontroller based Embedded System**” on 20.04.2017 and 21.04.2017.

## RESEARCH & PUBLICATION

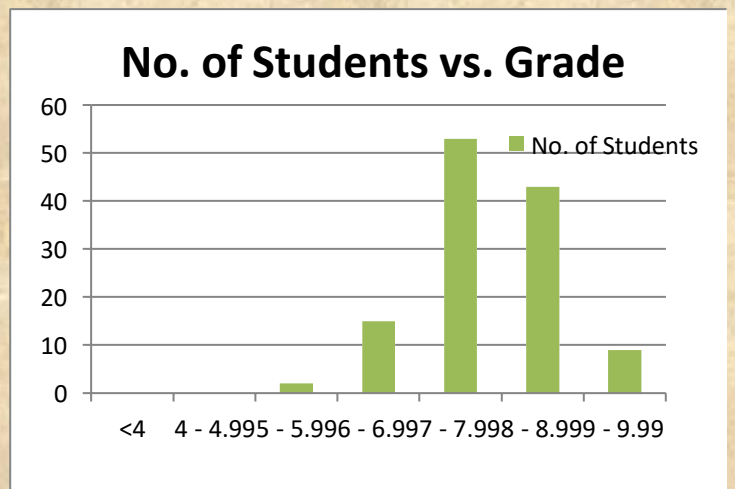
Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
ECE	0	0	1	12	13

# RESULT ANALYSIS

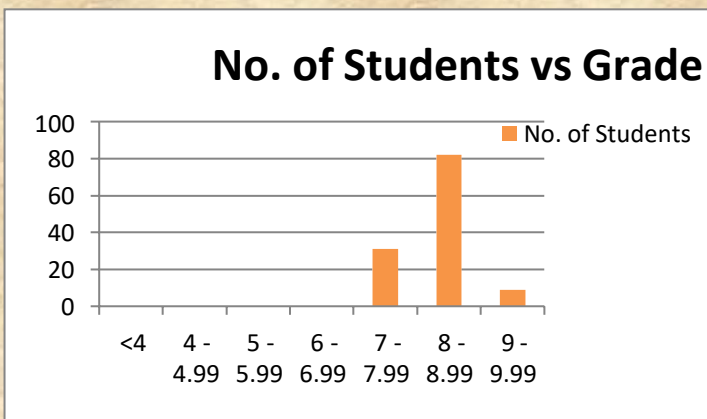
## YGPA WISE RESULT ANALYSIS (FT) AY 2016-17



### YGPA-wise Result Analysis (ECE 2<sup>ND</sup> YEAR)

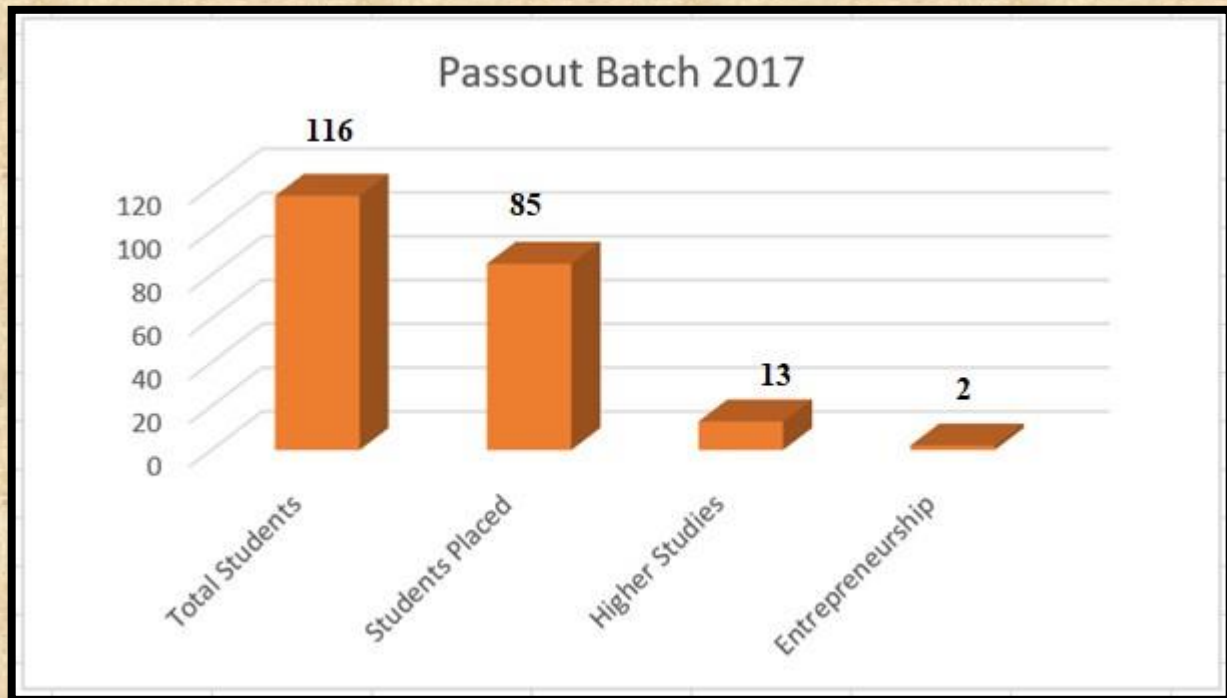


### YGPA-wise Result Analysis (ECE 3<sup>RD</sup> YEAR)



### YGPA-wise Result Analysis (ECE 4<sup>TH</sup> YEAR)

## PLACEMENT, HIGHER STUDIES, ENTERPRENURESHIP



# Department of Applied Electronics & 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

- 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.
- 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.
- 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.

## **PO (PROGRAM OUTCOMES)**

- a) **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- b) **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- c) **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- d) **Conduct investigations of complex problems** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
- e) **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.
- f) **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- g) **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- h) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- i) **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- j) **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.
- k) **Project Management and Finance:** Demonstrate knowledge and understanding of 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.
- l) **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.

## **PSO (PROGRAMME SPECIFIC OUTCOMES)**

- **PSO1: Ability to explore the design, installation & operation of the basic instrumentation systems used in industrial environments**
- **PSO2: 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 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, WBTL. They have a multidisciplinary role to play. One may choose to move sideways into other areas like Software (IBM, Infosys, TCS, CTS, Capgemini etc), Banking (SBI, UBI etc.), Education (Different degree & Diploma Engineering Institutions), 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.

## HOD'S MESSAGE



Ms. Bapita Roy

*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.*

## DEPARTMENTAL ACHIEVEMENTS

### Faculty Achievements:



- **Research Paper of Dr. Paramita Banerjee is accepted for oral Presentation (Impedance model of a piezoelectric sensor derived from experimental responses) in 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section October 19th-20th, 2016.**

- **Mrs Paramita Banerjee** stood **First** in the session Presentation on the topic **Current Practices on Mentorship and Future Innovative Practices for Better Mentorship** for Better GNIT organized by GNIT on 7th September,2016.
- Research Paper publication of **Mrs. Bapita Roy** (Design of a Microcontroller Based Potentiometric Level Sensor) in 1st International Conference on “**VLSI, Devices, Circuits and Systems (VLSI DCS 2016)**”, organized by **IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter**, in association with the Department of ECE, MSIT and technically cosponsored by **IEEE Kolkata Section** October 19th-20th, 2016.
- Mrs. Jayita Datta had been appointed as **Head Examiner** by **MAKAUT** for the Paper EI402 (Microprocessor & Computer Architecture) of AEIE in even semester 2016 (July-2016)
- **.Dr. Paramita Banerjee** published a Research Paper publication (Predicting the dental implant stability based on the ant resonance phase of a piezo based impedance sensor) in **Journal of International Clinical Demtal Research Organisation** published in **January 2017** edition,she has also achieved kriti award for Excellence on 19 May 2017.
- **Jayita Datta** published a Research Paper publication (Development of An ECG Signal Acquisition Module) in **2nd International Conference on “2017 Devices for Integrated Circuit (DevIC)”**, organized by **IEEE KGEC Student Branch Chapter** in association with Department of ECE, KGEC, technically co- sponsored by **IEEE EDS Kolkata Chapter** on March 23-24, 2017.

### ***Student Achievements:***

- **Mr. Souvik Das & Ms. Repartha Saha** published a Research Paper (PLC based Modern Monoculture Farming System) in 1st International Conference on “**VLSI, Devices, Circuits and Systems (VLSI DCS 2016)**”, Jointly Organized by **IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter, IEEE SSCS Kolkata Chapter** in Association with the Dept. of ECE, MSIT Technically Co-sponsored by **IEEE Kolkata Section** October 19th-20th, 2016.

- **Shovan Kar** published a Research Paper (Microcontroller based dual axis solar tracking system) in 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), Jointly Organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter, IEEE SSCS Kolkata Chapter In Association with the Dept. of ECE, MSIT Technically Co-sponsored by IEEE Kolkata Section October 19th-20th, 2016.



- **Punit Patel** became all India laurel for GNIT after successful completion of national level Dance Workshop under mentor-ship of Bollywood choreographer/ actor Dharmesh Sir (Mr. Dharmesh Yelonde), conducted by RIZZA Group.
- **Nandita Dasgupta** stood Second in creative Poster Designing Competition on the theme of Anti Ragging organized by GNIT on 31 st August,2016.
- **Sudeshna Banerjee & Sintu Kumar Barnwal** published a Research Paper (An Automated Method of temperature And Humidity Measurement for Calibration Laboratory) in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017, organized by FOSET in collaboration with Guru Nanak Institute of Technology on 19th MARCH, 2017.
- **Arpan Kumar Lahiri & Debasis Awasti** published a Research Paper publication (Air Swipe Controlled home-made speaker) in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017, organized by FOSET in collaboration with Guru Nanak Institute of Technology on 19th MARCH, 2017.

- **Anirban Chakraborty;** published a Research Paper publication (Colour Sensor Based Ambient Light with Manual Control) in **8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017**, organized by FOSET in collaboration with Guru Nanak Institute of Technology on 19th MARCH, 2017.
- **Souvik Das & Reeparna Saha**\_published a Research Paper publication (PLC based Modern Monoculture Farming System) in Journal of Advances in Industrial Engineering & Management in Vol 6, no.2,2017.
- **Shovan Kar** published a Research Paper publication (Microcontroller Based Dual Axis Solar Tracking system) in Journal of Advances in Industrial Engineering & Management in vol. 6, no. 1,2017, pp. 43-47.

**DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)**

- **Seminar organized by AEIE Department:** Seminar on INDUSTRIAL AUTOMATION: PLC & SCADA In collaboration with PROLIFIC SYSTEMS & TECHNOLOGIES PVT. LTD organized by AEIE Department on 24<sup>th</sup> August, 2016.
- **Seminar on INTEL FPGA Based Hardware Implementation** Department of Electronics & Instrumentation Engineering, GNIT, In collaboration with Enixs Technology India Pvt Ltd.on 13<sup>th</sup> February,2017 .



- Seminar on **INDUSTRIAL AUTOMATION** organized by IE student chapter –EIE Dept., GNIT on 24th March 2017.



- Seminar on **Neuro Linguistic Programming on Personal Power** organized by AEIE department, NIT on 22<sup>nd</sup> May 2017.
- **Departmental BOS meeting:** Held on 05th July,2016 with external Invitees
- **INDUSTRY-ALUMNI MEET:** Organized **INDUSTRY-ALUMNI MEET** on 12<sup>th</sup> August,2016 .12 distinguished alumni of AEIE department attended the program.
- **Departmental wall magazine publication:** Published the Departmental wall magazine ‘Fetiales Aevum’ and technical magazine ‘Magazine Mania’- on 14<sup>th</sup> September 2016.



- **Industry visit:** The students of EIE (Electronics and Instrumentation Engineering) visited **Kolaghat Thermal Power Station, WBPDC** on 28th June 2017. The entire team guided by Mrs. Bapita Roy,

Head of the department, EIE; Mrs. Sanghamitra Layek, Asst. Prof.; Mrs. Suparna Maity, Asst. Prof.; Mrs. Santana Das, Asst. Prof.



- **Mrs Bapita Roy** participated in a **DD Bangla telecast** on a live programme on the topic **Scope of Electronics Instrumentation Engineering** along with notable expert **Prof. Rajib Bandopadhyay** of Jadavpur on **1<sup>st</sup> July, 2016**.



- **Fitness Awareness Camp organized by AEIE Department: Fitness Awareness Camp organized by AEIE department on 16-17, Feb., 2017**



- **Department of Electronics and communication Engineering, GNIT organized Five Days Online National Faculty Development Program On “Advancement in Instrumentation Engineering & Development in Process Automation” on 18th-22th January, 2017.**

<p><b>Faculty Development Program</b> On <b>Advancement in Instrumentation Engineering &amp; Development in Process Automation</b> <b>18<sup>th</sup>-22<sup>th</sup> January, 2017</b></p> <p>Organized by: <b>Institute of Engineers (I) Student Chapter</b></p>  <p><b>Department of Applied Electronics &amp; Instrumentation Engineering</b> <b>Guru Nanak Institute of Technology</b></p>  <p>In collaboration with <b>ARDENT COMPUTECH PVT LTD</b></p>  <p>Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kol 114</p>	<p><b>Chief Patron</b> Mr. Taranjit Singh, MD, JIS Group</p> <p><b>Patron</b> Mr. Simarpreet Singh, Director, JIS Group Mr. Amandeep Singh, Director, JIS Group</p> <p><b>Advisory Committee</b> Prof. (Dr.) Annapurna Das, Director, GNIT Prof. (Dr.) Sisir K Das, Dean, GNIT Prof. (Dr.) Santanu K Sen, Principal, GNIT</p> <p><b>Chairperson</b> Mrs. Bapita Roy, H.O.D., AEIE, GNIT</p> <p><b>Convener</b> Mrs. Suparna Maity, Assistant Professor, AEIE</p> <p><b>Organizing Committee</b> 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</p> <p><b>Program Schedule</b> 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</p>	<p><b>Participants</b></p> <ul style="list-style-type: none"> <li>• Faculty Members</li> <li>• Technical Staff</li> </ul> <p><b>Mode of Selection</b> 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.</p> <p><b>No Registration Fee</b></p> <p><b>Time</b> 10:30 a.m. to 1:30p.m.</p> <p><b>Contact Person</b> Suparna Maity, Asst. Prof., AEIE, GNIT Ph: 9748134684 Email: <a href="mailto:head_aeie.gnit@jisrroup.org">head_aeie.gnit@jisrroup.org</a></p>
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- **Department of Electronics and communication Engineering, GNIT organized Five Days Online National Faculty Development Program On “Application of A.I in Automation Industry” on 15th - 19th June, 2017.**

<p><b>Faculty Development Program</b> On <b>Application of A.I in Automation Industry</b> <b>15<sup>th</sup> -19<sup>th</sup> June, 2017</b></p> <p>Organized by: <b>Institute of Engineers (I) Student Chapter</b></p>  <p><b>Department of Applied Electronics &amp; Instrumentation Engineering</b> <b>Guru Nanak Institute of Technology</b></p>  <p>In collaboration with <b>ARDENT COMPUTECH PVT LTD</b></p>  <p>Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kol 114</p>	<p><b>Chief Patron</b> Mr. Taranjit Singh, MD, JIS Group</p> <p><b>Patron</b> Mr. Simarpreet Singh, Director, JIS Group Mr. Amandeep Singh, Director, JIS Group</p> <p><b>Advisory Committee</b> Prof. (Dr.) Annapurna Das, Director, GNIT Prof. (Dr.) Sisir K Das, Dean, GNIT Prof. (Dr.) Santanu K Sen, Principal, GNIT</p> <p><b>Chairperson</b> Mrs. Bapita Roy, H.O.D., AEIE, GNIT</p> <p><b>Convener</b> Mrs. Suparna Maity, Assistant Professor, GNIT</p> <p><b>Organizing Committee</b> 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</p> <p><b>Program Schedule</b> 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</p>	<p><b>Participants</b></p> <ul style="list-style-type: none"> <li>• Faculty Members</li> <li>• Technical Staff</li> </ul> <p><b>Mode of Selection</b> 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.</p> <p><b>No Registration Fee</b></p> <p><b>Time</b> 10:30 a.m. to 1:30p.m.</p> <p><b>Contact Person</b> Mrs. Suparna Maity, Asst. Prof., AEIE, GNIT Ph: 9748134684 Email: <a href="mailto:head_aeie.gnit@jisrroup.org">head_aeie.gnit@jisrroup.org</a></p>
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### Seminar/workshop Participated:

- **Mr. Sudip Kuila, Asst. Prof., AEIE attended One day seminar on Water Pollution and Water Quality Improvement on 2<sup>nd</sup> August, 2016 at Applied Science and Humanities Department, GNIT.**
- **Mrs. Bapita Roy, Assistant Professor, AEIE attended a) Seminar on Two-day National Seminar on “Ethics in Academic Governance” on 26-27 th August, 2016 at At the CII Auditorium, Saltlake**

City b) One day seminar on Water Pollution and Water Quality Improvement on 2<sup>nd</sup> August,2016 at Applied Science and Humanities Department, GNIT.

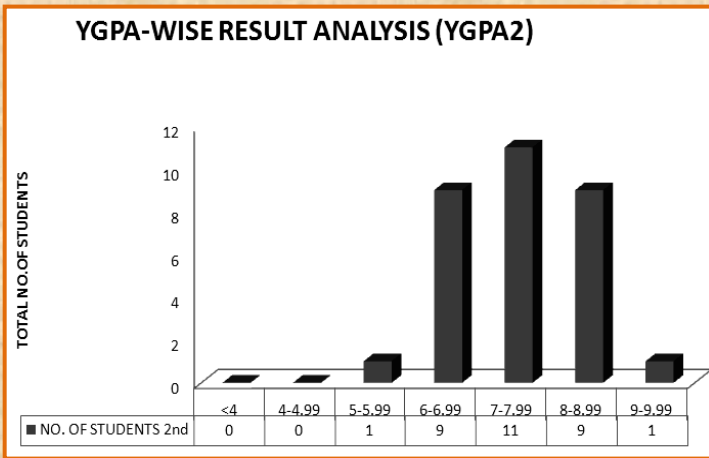
- **Mrs. Sanghamitra Layek**, Assistant Professor,AEIE attended **One day seminar on Water Pollution and Water Quality Improvement** on 2<sup>nd</sup> August,2016 at Applied Science and Humanities Department, GNIT.
- **Mrs. Uma Ghosh**,Assistant Professor,AEIE attended a) One day seminar on Water Pollution and Water Quality Improvement on 2<sup>nd</sup> August,2016 at Applied Science and Humanities Department, GNIT.
- **Mrs. Bapita Roy**,**Mrs. Paramita Banerjee**, **Mrs. Sanghamitra Layek**, **Mrs. Santana Das**, **Mrs. Suparna Maity**, **Mr. Sudip Kuila**, Assistant Professor,AEIE attended a).Seminar on INTEL FPGA Based Hardware implementation on 13th February at GNIT campus,EIE Dept.GNIT, In collaboration with Enixs Technology India Pvt Ltd. b) eminar on INDUSTRIAL AUTOMATION on 24th March 2017 at GNIT campus,IE student chapter EIE Dept., GNIT c) Fitness Awareness Camp on 16-17, Feb.,2017 at GNIT campus EIE Dept., GNIT, d) Seminar on Neuro Linguistic Programming on Personal Power on 22nd May 2017 at EIE Dept., GNIT
- **Tanmoy Kumar Roy**, **Sanjukta Basu** participated in Participated in “Creative Poster Designing Competition” on the theme of Anti Ragging organized by GNIT on 31<sup>st</sup> August,2016.
- **Subhadeep Roy** Participated in “debate competition on Anti Ragging” organized by GNIT on 31 st August,2016.
- 34 students participated on Seminar on **INTEL FPGA Based Hardware implementation** on 13th February at GNIT campus,EIE Dept.GNIT, In collaboration with Enixs Technology India Pvt Lt.
- 18 students participated Seminar on **INDUSTRIAL AUTOMATION** on 24<sup>th</sup> March,2017.18 students participated Seminar on **Neuro Linguistic Programming On Personal Power** on 22<sup>nd</sup> May 2017.

## RESEARCH & PUBLICATION

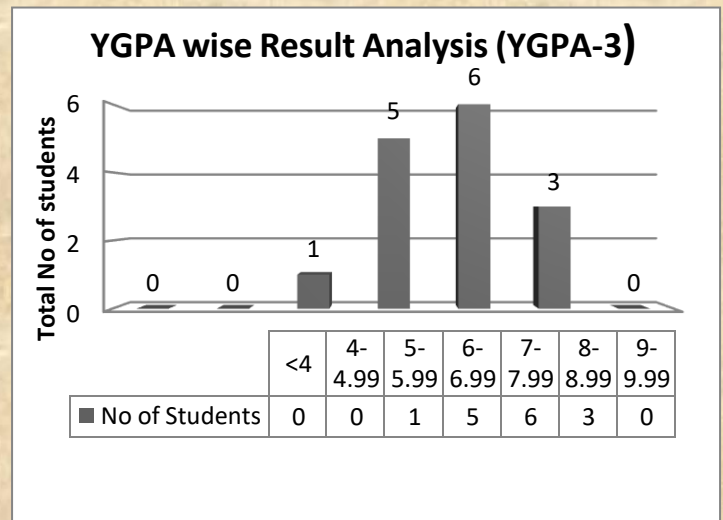
Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
AEIE	0	0	6	8	14

# RESULT ANALYSIS

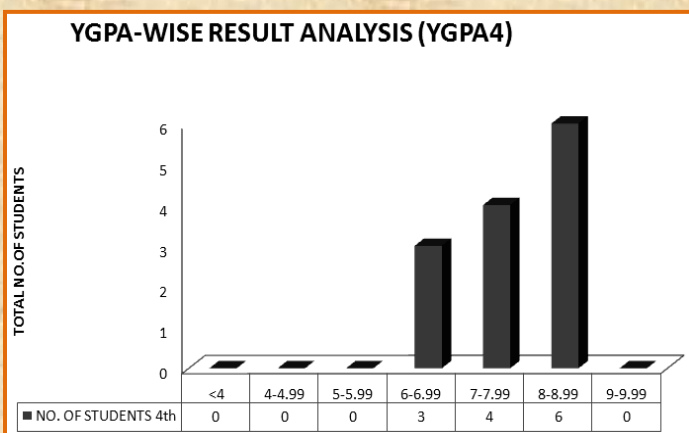
## YGPA WISE RESULT ANALYSIS (AEIE) AY 2016-17



## YGPA-wise Result Analysis (FT 2<sup>ND</sup> YEAR)

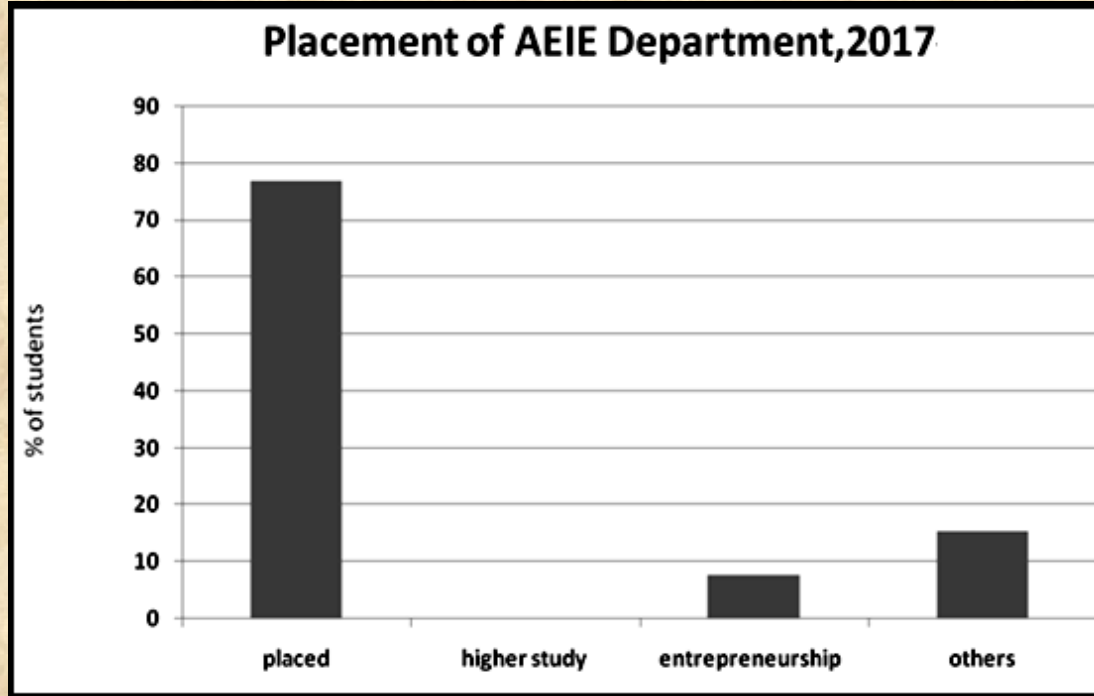


## YGPA-wise Result Analysis (AEIE 3<sup>RD</sup> YEAR)



## YGPA-wise Result Analysis (FT 4<sup>TH</sup> YEAR)

## PLACEMENT, HIGHER STUDIES, ENTERPRENURESHIP



# Department of 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

- 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.
- To train students across the spectrum of basic and applied science, recognizing and exploiting common descriptions in disparate systems.
- To train students with sufficient scientific and Information Technology breadth to design and create novel solutions to real-life problems in computing domain.
- 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.
- 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

## **PO (PROGRAM OUTCOMES)**

- a) **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- b) **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- c) **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- d) **Conduct investigations of complex problems** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
- e) **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.
- f) **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- g) **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- h) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- i) **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- j) **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.
- k) **Project Management and Finance:** Demonstrate knowledge and understanding of 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.
- l) **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.

## **PSO (PROGRAMME SPECIFIC OUTCOMES)**

**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 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 Infosys, TCS, Cognizant, Tech Mahindra, 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.

**Courses Offered: 4 years B.Tech in Information Technology.**

## HOD'S MESSAGE



**Ms. Baisakhi Das**

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.

## DEPARTMENTAL ACHIEVEMENTS

### *Faculty Achievements:*

- Ms. Suparna Karmakar, has successfully completed Faculty Enablement Program on “Database Management System through INFYTQ Platform” conducted in online mode using WebEx platform from 22nd July to 24th July 2016 by Infosys Limited and has been awarded with "A+" Grade.
- Mr. Sudeep Ghosh, Act as session moderator at “International online conference on Engineering Response to COVID-19, 2016 Organized by JISE on 8<sup>th</sup> & 9<sup>th</sup> October, 2016.
- Mr. Sudeep Ghosh, Act as reviewer of an international conference “International Conference on Machine Intelligence and Data Science Applications” University of Petroleum and Energy Studies , Dehradun, India, July , 2016
- Mr. Sudeep Ghosh, Mr. Tridib Chakraborty, Act as reviewer of IEM-ICDC2016 ( International Conference on Computational Intelligence, Data Science and Cloud Computing)
- Ms. Suparna Karmakar, Mr. Tridib Chakraborty Got the NPTEL mentorship certificate. Subject: The Joy of computing using Python.
- Mr. Sudeep Ghosh, Got the NPTEL mentorship certificate. Subject: Programming using in Java.
- Ms. Trishita Ghosh, Act as reviewer of International Conference on Advanced Computing 2016
- Mr. Sudeep Ghosh, Mr. Tridib Chakraborty, Mr. Chowdhury MD Mizan Act as reviewer of IEM-ICDC 2016 (International Conference on Computational Intelligence, Data Science and Cloud Computing) act as reviewer of IEM-ICDC 2016 ( International Conference on Computational Intelligence, Data Science and Cloud Computing).

### *Student Achievements:*

- Ms. Ashwariya Das and Ms. Saheli Hazra students of 3<sup>rd</sup> year IT, GNIT, has won the group dance competition (“Feel the Beat ” ) in , the fest RHAPSODY 16 organized by Calcutta Medical College between 26<sup>th</sup> and 30<sup>th</sup> September 2016.
- Ms. Sampurna Mitra has won “KRITI-2016” award for academic excellence.



- **Ms. Sampurna Mitra** has won “**KRITI-2016**” award of excellence in the category of co-curricular activities for being the winner in "**Words of Wisdom**" - slogan writing competition, organized by WIPRO Technologies.
- **Ms. Saheli Hazra** participated in a group dance competition and has won **2<sup>nd</sup> prize** from Vivekananda Athletic club, Howrah, 2016.
- **Ms. Ankita Saha** has won “**KRITI-2016**” award of excellence in the category of co-curricular activities for being the **winner of SANANDA TILLOTTAMA , 2016**.
- **Ms. Saheli Hazra** participated in a group dance competition and has won **2<sup>nd</sup> prize** from Arannak club, Kolkata, 2016.
- **Ms. Saheli Hazra** participated in a duet dance competition and has won **1<sup>st</sup> prize** from Arannak club, kolkata, 2016.
- **MS. Ankita Saha** participated in **Max Fashion Icon India 2016** on 8<sup>th</sup> May 2016.
- **Mr. Sumit Kumar Singh**, Alumni of IT, GNIT, successfully secured admission in M.TECH in Machine Learning & Computing(through GATE) at the prestigious Indian Institute of Space Science & Technology , Thiruvananthapuram with scholarship from MHRD, 2016.

## **DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)**

### **a. Organized**

- **Mr. Md Mizan Chowdhury**, Assistant Professor of IT Dept, organized Seminar on .Net in Collaboration with WebTek Labs on 21/10/2016.
- **Mr. Md Mizan Chowdhury**, Assistant Professor of IT Dept, organized Seminar on Ethical Hacking and Cyber Security Collaboration with **Indian School of Ethical Hacking** on 19/08/2016.

- **Mr. Md Mizan Chowdhury**, Assistant Professor of IT Dept, organized **Seminar on Interactive session** with Mr Arvind Singhatiya in collaboration OLA (ANI Technologies Pvt. Ltd. on 5/8/2016.
- **Mr. Md Mizan Chowdhury**, Assistant Professor of IT Dept, organized seminar on **Ethical Hacking** in collaboration with **Indian School of Ethical Hacking** on 12/02/2016.
- Department of IT organized **one-day seminar on Android Architecture Overview and it's Applications** on 25/02/2016.
- Department of IT organized workshop on **Teenage Unemployability** by BCCI on 27/02/2016.
- Department of IT organized one-day seminar on **Android Architecture Overview and it's Applications** on 25/02/2016.
- Department of IT organized one-day seminar on **Internet of things and Cloud Computing** on 7/01/2016.
- Department of IT organized one-day seminar on **Big Data using Hadoop** on 24/02/2016.
- Department of IT in collaboration with **CII Suresh Neotia Centre of Excellence for Leadership, Kolkata.**
- Department of IT organized seminar on **Launching of "Start Up India, Stand Up India"** on 16/01/2016
- Department of IT in collaboration with **Tata Consultancy Services Unitech Hitech Stuctures Ltd**, New Town, Rajarhat, Kolkata, organized **TCS innovation lab visit** on 4/03/2016.
- Department of IT in collaboration with **The Park Hotel the Bengal Chamber of Commerce and Industry (BCCI).Workshop on Teenage Unemployability** on 20/02/2016.
- Department of IT organized five day **Faculty Development Program On Cloud Computing** on 26th-30th Dec, 2016.

<p><b>Faculty Development Program</b> On <b>Cloud Computing</b> <b>26<sup>th</sup>-30<sup>th</sup> Dec, 2016</b></p> <p>Organized by:</p> <p><b>Department of Information Technology</b> <b>Guru Nanak Institute of Technology</b></p>  <p>In collaboration with</p> <p><b>ARDENT COMPUTECH PVT LTD</b></p>  <p>Guru Nanak Institute of Technology 157/F, Nilgunj Road, Panihati, Sodepur, Kol 114</p>	<p><b>Chief Patron</b> Mr. Taranjit Singh, MD, JIS Group</p> <p><b>Patron</b> Mr. Simarpreet Singh, Director, JIS Group Mr. Amandeep Singh, Director, JIS Group</p> <p><b>Advisory Committee</b> Prof. (Dr.) Annapurna Das, Director, GNIT Prof. (Dr.) Sisir K Das, Dean, GNIT</p> <p><b>Chairperson</b> Prof. (Dr.) Santanu K Sen, Principal,GNIT</p> <p><b>Convenor</b> Mr. Sudeep Ghosh, Asst. Prof., Dept. of IT</p> <p><b>Organizing Committee</b> Mr. Tridib Chakraborty, Asst. prof.IT Ms. Suparna Karmakar, Asst. prof.IT Mr. Chowdhury Md Mizan, Asst. prof.IT Mr. Prem Sagar Das,TA,IT</p>	<p><b>Participants</b></p> <ul style="list-style-type: none"> <li>• Faculty Members</li> <li>• Technical Staff</li> </ul> <p><b>Mode of Selection</b></p> <p>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.</p> <p><b>No Registration Fee</b></p> <p><b>Time</b></p> <p>10:30 a.m. to 1:30p.m.</p> <p><b>Contact Person</b> Ms. Trishita Ghosh Asst. Professor, Dept. of IT, GNIT Email ID: <a href="mailto:trish2921@gmail.com">trish2921@gmail.com</a> Mobile: (+91) 9933788789</p>
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- Department of IT organized five day Faculty Development Program On Green Computing on 26th-30th June, 2017.

**Faculty Development Program**  
On  
**Green Computing**  
**26<sup>th</sup>-30<sup>th</sup> June, 2017**

Organized by:  
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, Pamihati,  
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

**Chairperson**  
Prof. (Dr.) Santanu K Sen, Principal, GNIT

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

**Organizing Committee**  
Mr. Tridib Chakraborty, Asst. prof. IT  
Ms. Suparna Karmakar, Asst. prof. IT  
Mr. Chowdhury Md Mizan, Asst. prof. IT  
Mr. Prem Sagar Das, JTA, IT

**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.

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

**b. Participated**

- Ms. Baisakhi Das, Assistant Professor, department of IT, attended seminar on eSummit 2016 on 19/02/2016 organized by Salt Lake, Kolkata, NASCCOM at Eastern Zonal Cultural Centre (EZCC).

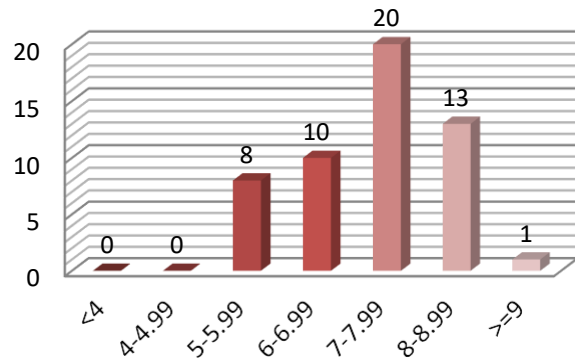
**RESEARCH & PUBLICATION**

Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
IT	0	2	7	3	12

# RESULT ANALYSIS

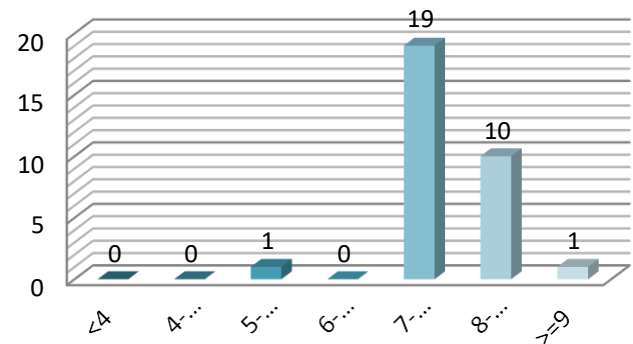
## SGPA WISE RESULT ANALYSIS (IT) AY 2016-17

### SGPA-wise Result Analysis



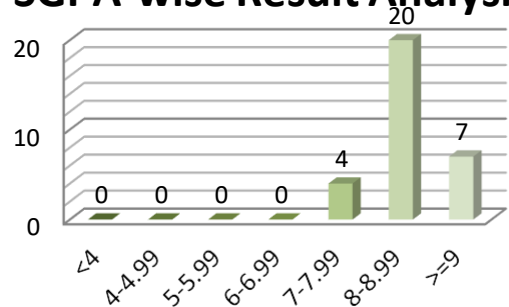
Result Analysis (IT 2<sup>ND</sup> YEAR)

### SGPA-wise Result Analysis



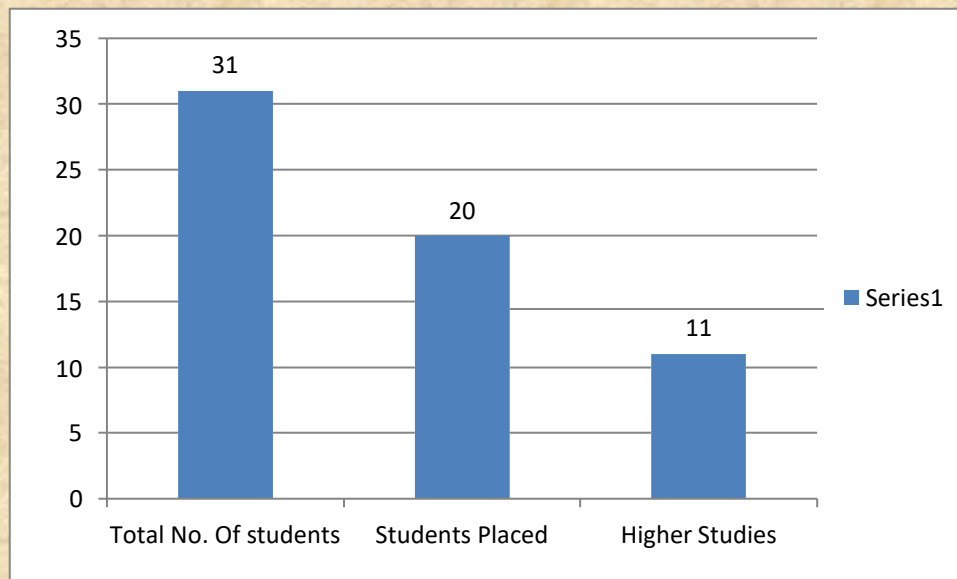
Result Analysis (IT 3<sup>RD</sup> YEAR)

### SGPA-wise Result Analysis



Result Analysis (IT 4<sup>TH</sup> YEAR)

## PLACEMENT, HIGHER STUDIES, ENTERPRENURESHIP



# Department of 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 lifelong learners required for successful professional careers.

## **PO (PROGRAM OUTCOMES)**

- a) **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- b) **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- c) **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- d) **Conduct investigations of complex problems** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
- e) **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.
- f) **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- g) **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- h) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- i) **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- j) **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.
- k) **Project Management and Finance:** Demonstrate knowledge and understanding of 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.
- l) **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.

## PSO (PROGRAMME SPECIFIC OUTCOMES)

- Students acquire the ability to identify, formulate and solve problems involving the broad areas of physical sciences, Engineering and Technology, especially in the core subjects of Electrical Engineering, such as, Circuit Analysis, Electrical Machines, Control Systems, Power Systems, Power Electronics and Drives etc.
- Students acquire capability to design various types of Electrical and Electronics machines and systems with the use of modern software tools.
- Students develop awareness about the social, economic, ethical and environmental responsibilities in the practice of professional duties as Electrical Engineers

## BRIEF OVERVIEW OF THE DEPARTMENT

*Department of Electrical Engineering, Guru Nanak Institute of Technology has started its auspicious academic journey under the West Bengal University of Technology, presently MAKAUT-West Bengal since 2003. The Department got the National Board of Accreditation (NBA) consecutively in 2009 and 2014 for its excellent performance in the arena of technical education. The department as a part of the college offers UG and Diploma Program and the department have grown not only in terms of students and faculty strength but also with the improved laboratory facility for teaching and research purposes. The department has experienced faculty members with Doctoral degree (PhD), and dedicated technical staff. The laboratories are well-equipped with high-value hardware experimental setup including industry-oriented software packages. The Department provides world brand education in core engineering fields which will help the budding engineers to apply the knowledge in interdisciplinary research and projects. To make the Electrical Graduate industry ready, the department arranges industry visits, Soft skill and aptitude classes and also regular basis classes for qualifying GATE/PSU.*

### **Courses 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, Lab View, 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.*
- *The department is a life institutional member of ISCTE and Institute of Engineers (India).*

## **HOD'S MESSAGE**



**Prof.(Dr.) J. K. Das**

Since the inception of college in 2003, Department of Electrical Engineering is functioning in full swing in GNIT with approval of AICTE. The department has also obtained NBA accreditation up to the year 2017 and at present offers B. Tech. as well as Diploma programs in Electrical Engineering. The department has the state of the art laboratories and a team of well trend faculties to take care of knowledge transfer both in core engineering education and development of soft skill. Present strength of B. Tech. students is 120 per year and the same for Diploma course is 60. Apart from class room teaching the faculties are continuously pursuing different technical publication, research program, seminar and other co-curricular activities to fulfill the need for new generation educational institute and to make the students industry ready.

## DEPARTMENTAL ACHIEVEMENTS

### *Faculty Achievements:*

- Dr. Prabal Deb, Mr. Arindam Roy, Ms. Madhumita Chakraborty have published a paper named "Alcohol Sensor Based Cost Effective Simple Car Ignition Controller" in first conference on Advancement of Computer Communication and Electrical Technology (ACCET, 2016) Sept, 2016
- Susovan Dutta has published his paper named, "Cost Effective Multi-Purpose Solar Charger Unit for Rural Development" in International Journal of Computer Sciences and Engineering, August 2016.
- Mr. Susovan Dutta, "Magnetically actuated transport of ferrofluid droplets over micro-coil array on a digital microfluidic platform" Elsevier, Sensors and Actuators B: Chemical, Volume 236, Pages 1-1132 (29 November 2016).
- Dr. J K Das and Debnil Chakraborty, "Effective Management of Transformer Inrush during Restoration of a Typical Industrial Power System" published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (An ISO 3297: 2007 Certified Organization) Vol. 6, Issue 2, February 2017 Copyright to IJAREEIE DOI:10.15662/ IJAREEIE.2017.0602016 801
- Suman Ghosh , Soumik Roy, "Designing a Dual-Axis Solar Tracking System for increasing efficiency of a Solar Panel", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 12, December 2016.

### *Student Achievements:*

- Sayan Saha, Rajesh Dutta, Nilasha Sen, Sourav Roy, Subash Dey, Surajit Biswas (3<sup>rd</sup> yr, EE) Cleared the screening test to visit Asian Institute of Technology, Bangkok, Thailand
- Koushik Mishra, Abhirup Pal, Surojit Biswas (3<sup>rd</sup> yr), Riddhi Chakraborty (4<sup>th</sup> yr) awarded for in the event of Academic Excellence (KRITI 2016)
- Koushik Mishra, Abhirup Pal (3<sup>rd</sup> yr) Secured 1<sup>st</sup> position in "All Terrain" event during PHOENIX 2016, the official Techno-Management Fest of Future Institute of Engineering and Management, Kolkata
- Rumit Chakraborty, Indranil Som (4<sup>th</sup> yr) presented a model of Remote Control Boat at Book Fair, 2016
- Surya Shekhar (3<sup>rd</sup> yr) awarded Gulabi Devi Memorial Football Tournament

- **Debasis Agasti, Sheyed Navaz Sherif (2<sup>nd</sup> yr) awarded Robotics Events: Kshitij (by technology robotics Society, IIT, Kharagpur**



**Mr. Sukdeb Sadhukhan, JTA, EE, Mr. Vivekanda Kumar, JTA, EE, Mr. Suman Chakraborty, JTA, EE awarded for the Adherence**

**Mr. Kalyan Kr. Chakraborty, Asst. Prof, EE, GNIT and Mrs Subhra Sen, JTA, EE, GNIT awarded for the 10 years continuous service in GNIT**



**Mr. Suman Majumder, Asst. Prof, EE, GNIT and Mr. Arindam Roy, Asst. Prof, EE, GNIT awarded for the Distinguished Mentors**



**Koushik Mishra (3<sup>rd</sup> yr) got KRITI 2016 award for in the event of Academic Excellence**

# DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)

## a. Organized



One day seminar on recent trends in power system and applications on 03.03.2017



“STUDENTS POSTER CONTEST- SAVE ELECTRICITY & SAVE WATER”  
Organized by Department of Electrical Engineering, GNIT on 06/07/2016

• Department of Electrical Engineering organized five days Faculty Development Program on Cutting-Edge Technologies for Electrical Engineering on 2 nd January- 6 Th January, 2017.

ABOUT THE COLLEGE	ORGANIZING COMMITTEE
<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><b>ABOUT THE DEPARTMENT</b></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.</p> <p>Electrical Engineering Department is constantly pursuing for upliftment of Academic &amp; Professional standard, values &amp; ethics.</p>	<p><b>Chief Patron:</b> Sardar Taranjit Singh, Managing Director, JIS Group</p> <p><b>Patron:</b> Mr. Simarpreet Singh, Director, JIS Group</p> <p><b>FDP Chair:</b> Prof. (Dr.) Santanu Kr. Sen Principal, GNIT</p> <p><b>Coordinators:</b></p> <ol style="list-style-type: none"> <li>1. Dr. J. K Das (HOD) Dept. of Electrical Engineering, GNIT E-mail: head_eegnit@jisgroup.org</li> <li>2. Mr. Sushovan Dutta Dept. of Electrical Engineering, GNIT E-mail: sushovan.dutta@gnit.ac.in</li> </ol> <p><b>Address for communication:</b></p> <ol style="list-style-type: none"> <li>1. Mr. Suman Ghosh Mobile: +91-798031783</li> <li>2. Mr. Shyamal Kr. Roy Mobile: +91-8334808086</li> <li>3. Dr. Debasree Saha Mobile: +91-7005338712</li> </ol> <p>E-mail: fdp.ev2020@gmail.com</p>

**Faculty Development Program on Cutting-Edge Technologies for Electrical Engineering**

2<sup>nd</sup> January- 6<sup>th</sup> January, 2017

Organized by:  
Dept. of Electrical Engineering  
Guru Nanak Institute of Technology

PROGRAM HIGHLIGHTS	REGISTRATION FORM	RESOURCE PERSONS
<p>In this advanced era, groundbreaking technologies are introduced on a daily basis. Therefore it is necessary to stay up-to-date with these technologies and remain ahead. In this regard, a five-day national level FDP is planned by the Department of EE, Guru Nanak Institute of Technology, from 2<sup>nd</sup> January to 6<sup>th</sup> January, 2017. This FDP paves a platform for the Electrical Engineers to get connected with the technology advancements in the field of Electrical Engineering. The FDP aims at delivering quality sessions on undertaking the basic concepts of SCADA, Artificial Neural Networks, Grid integrated renewable sources, Multi-level inverters, Electric Vehicle Technologies, key issues and challenges in microgrids.</p> <p><b>Topics will be covered:</b></p> <ol style="list-style-type: none"> <li>1. Real-time Grid monitoring and control by SCADA.</li> <li>2. Multi-Level Converter Topologies.</li> <li>3. Electric Vehicle Technologies.</li> <li>4. Grid Integrated Renewable sources.</li> <li>5. Forecasting using Neural Networks.</li> <li>6. Microgrid: Key issues and challenges. OPAL-RT Laboratories, etc.</li> </ol> <p>Faculty members/ Academicians, Research/ PG Scholars, Industrial Professionals/ Delegates.</p>	<p><b>Faculty Development Program on Cutting-Edge Technologies for Electrical Engineering</b></p> <p><b>REGISTRATION FORM</b></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</p> <p>Transaction ID: _____ Date of Transaction: mm/dd/yyyy Upload money receipt (.jpg or .pdf file only)</p>	<p><b>Dr. Robindro Lairenlakpam</b> Principal Scientist &amp; Head, EV Technologies Area, CSIR-Indian Institute of Petroleum, Dehradun</p> <p><b>Prof. (Dr.) Subrata Banerjee</b> Dept. of Electrical Engineering, National Institute of Technology-Durgapur</p> <p><b>Dr. Santu K Giri</b> Principal Scientist CSIR-Central Mechanical Engineering Research Institute</p> <p><b>Prof. (Dr.) Debasish Chatterjee</b> Dept. of Electrical Engineering, Jadavpur University</p> <p><b>Dr. A. S. Prakash</b> Principal Scientist CSIR CECRI-Madras unit CSIR Madras Complex, Tamil Nadu</p>

• Department of Electrical Engineering organized five days Faculty Development Program on Recent Trends in Electrical Engineering: A Research Perspective on 15th June- 19th June, 2017.

ABOUT THE COLLEGE	ORGANIZING COMMITTEE
<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><b>ABOUT THE DEPARTMENT</b></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.</p> <p>Electrical Engineering Department is constantly pursuing for upliftment of Academic &amp; Professional standard, values &amp; ethics.</p>	<p><b>Chief Patron:</b> Sardar Taranjit Singh, Managing Director, JIS Group</p> <p><b>Patron:</b> Mr. Simarpreet Singh, Director, JIS Group</p> <p><b>FDP Chair:</b> Prof. (Dr.) Santanu Kr. Sen Principal, GNIT</p> <p><b>Coordinators:</b></p> <ol style="list-style-type: none"> <li>1. Dr. J. K Das (HOD) Dept. of Electrical Engineering, GNIT E-mail: head_eegnit@jisgroup.org</li> <li>2. Mr. Sushovan Dutta Dept. of Electrical Engineering, GNIT E-mail: sushovan.dutta@gnit.ac.in</li> </ol> <p><b>Address for communication:</b></p> <ol style="list-style-type: none"> <li>1. Mr. Suman Ghosh Mobile: +91-798031783</li> <li>2. Mr. Shyamal Kr. Roy Mobile: +91-8334808086</li> <li>3. Dr. Debasree Saha Mobile: +91-7005338712</li> </ol> <p>E-mail: fdp.ev2020@gmail.com</p>

**Faculty Development Program on Recent Trends in Electrical Engineering: A Research Perspective**

15<sup>th</sup> June- 19<sup>th</sup> June, 2017

Organized by:  
Dept. of Electrical Engineering  
Guru Nanak Institute of Technology

PROGRAM HIGHLIGHTS	REGISTRATION FORM	RESOURCE PERSONS
<p>The proposed faculty development programme provides a proper platform to participate for discussion and presentation of the latest technologies and discoveries in the field of Electrical Engineering. It is a quality course providing forum for academicians and industrial professionals to exchange their knowledge and state of art of advanced areas. The course content will be taught by eminent experts in the field, having adequate teaching and industrial experience. This course will offer a unique opportunity to the researchers, academicians and students working in this area to acquire knowledge in current and relevant topics in Electrical Engineering. This FDP provides deeper insight and knowledge to the participants about the recent advances in Electrical Engineering field.</p> <p><b>Topics will be covered:</b></p> <ul style="list-style-type: none"> <li>• Multivariable Control-A Research Perspective.</li> <li>• Multi-level Inverters in PV systems</li> <li>• Control Aspects of AC Micro grid</li> <li>• Control Strategies of DC Micro grid</li> <li>• Wide Area Control in Smart grid with limited measurements</li> <li>• Wide area control in Smart grid by considering Dominant Generators alone Condition Monitoring of Electrical Machines</li> <li>• Multi-phase Induction Motor Drives Research Perspectives in Microgrids</li> <li>• Machine Learning-Research Scope</li> <li>• Electric Machine Design using ANSYS Software</li> <li>• Fault-tolerant Multilevel Inverters with Energy Balancing Capability</li> </ul> <p>Faculty members/ Academicians, Research/ PG Scholars, Industrial Professionals/ Delegates.</p>	<p><b>Five Days Faculty Development Program on Recent Trends in Electrical Engineering: A Research Perspective</b></p> <p><b>REGISTRATION FORM</b></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</p> <p>Transaction ID: _____ Date of Transaction: mm/dd/yyyy Upload money receipt (.jpg or .pdf file only)</p>	<p><b>Dr. Robindro Lairenlakpam</b> Principal Scientist &amp; Head, EV Technologies Area, CSIR-Indian Institute of Petroleum, Dehradun</p> <p><b>Prof. (Dr.) Subrata Banerjee</b> Dept. of Electrical Engineering, National Institute of Technology-Durgapur</p> <p><b>Dr. Santu K Giri</b> Principal Scientist CSIR-Central Mechanical Engineering Research Institute</p> <p><b>Prof. (Dr.) Debasish Chatterjee</b> Dept. of Electrical Engineering, Jadavpur University</p> <p><b>Dr. A. S. Prakash</b> Principal Scientist CSIR CECRI-Madras unit CSIR Madras Complex, Tamil Nadu</p>

**a. Participated**



**One Day Industrial visit at Geetanjali Solar AT KASBA INDUSTRIAL AREA (26.10.2016)**



**One day industrial visit to “10 kw peak grid connected SPV system at GNIPST roof top”,  
sodepur,kolkata- 700114, west bengal.(19.10.2016).**

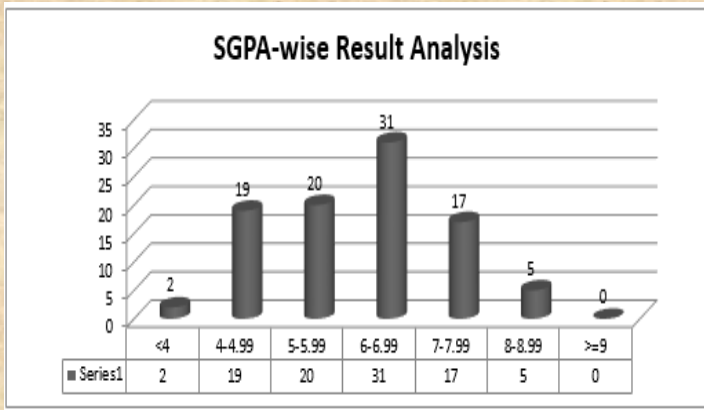
- **Dr. Jiban Krishna Das, Invited Speaker at NIT title on “Smart Grid in Smart Cities” on dated July, 2016**
- **Dr. Jiban Krishna Das, Invited Speaker at NIT title on “Power System Scada” on dated 19/09/2016**
- **Ms. Subhra Sen attended Workshop on Water Pollution & Water Quality Improvement organized by GNIT on 02/08/2016**
- **Mr. Sisir Mazumder attended Seminar on Ethics in Academic Governance organized by MAKAUT, at City Centre I Auditorium, Saltlake City, Kolkata on 26, 27/08/2016**
- **Ms. Madhumita Chakraborty attended Workshop on National Instrument Technical Symposium 2016 organized by HHI, Kolkata on 11/11/2016**
- **Mr. Susovan Dutta attended Workshop on National Instrument Technical Symposium 2016 organized by HHI, Kolkata on 11/11/2016**
- **Mr. Sisir Mazumder invited as a Jury judge for debate, poster & quiz competition organized by GNIT on dated Sept. 2016**

## RESEARCH & PUBLICATION

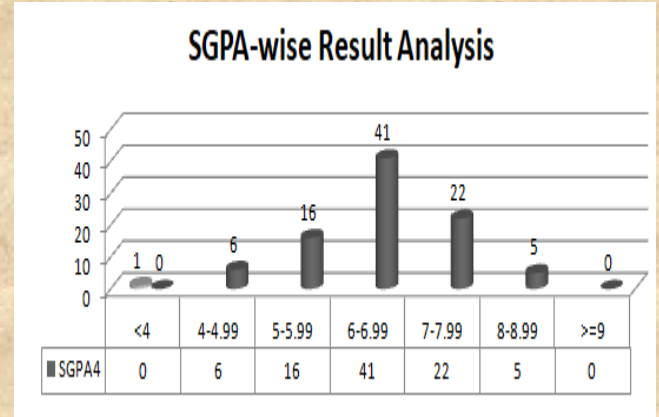
Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
<b>EE</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>7</b>

# RESULT ANALYSIS

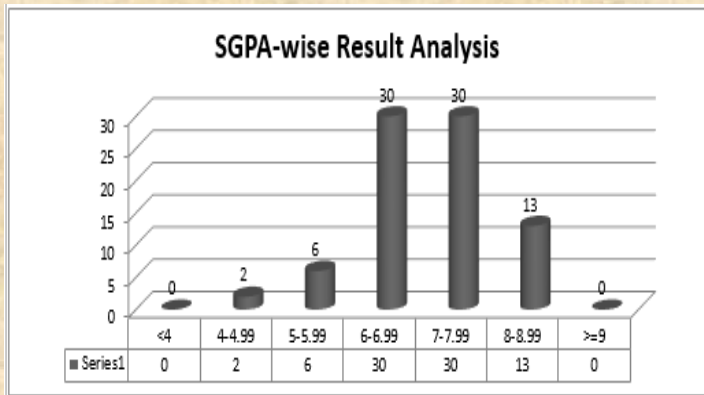
## SGPA WISE RESULT ANALYSIS (EE) AY 2016-17



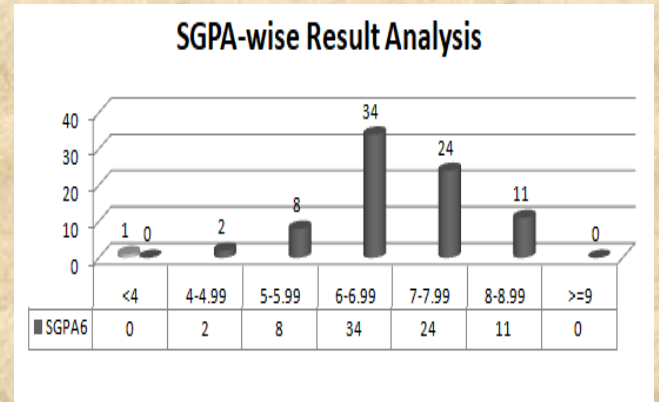
**SGPA-wise Result Analysis (EE – 3<sup>rd</sup> Sem)**



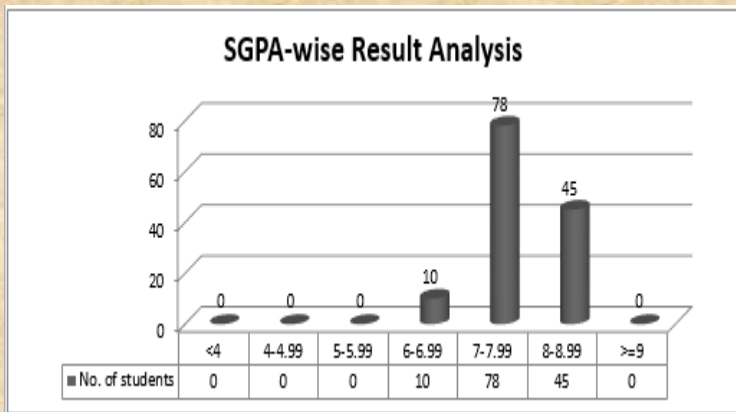
**SGPA-wise Result Analysis (EE – 4<sup>th</sup> Sem)**



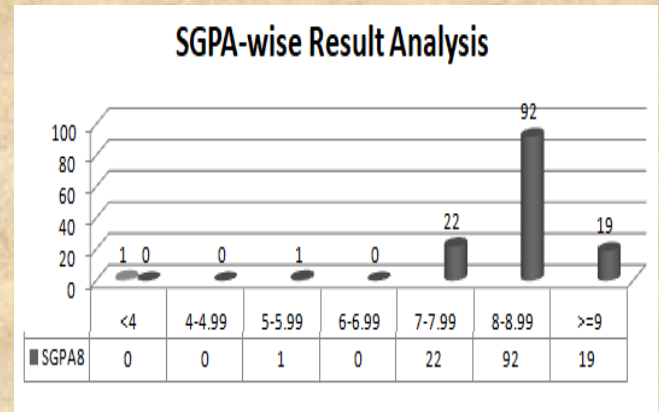
**SGPA-wise Result Analysis (EE – 5<sup>th</sup> Sem)**



**SGPA-wise Result Analysis (EE – 6<sup>th</sup> Sem)**



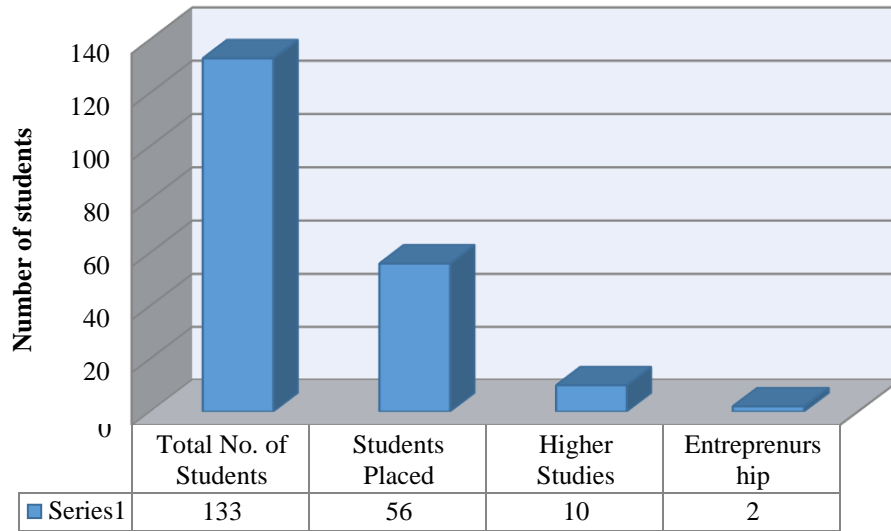
**SGPA-wise Result Analysis (EE – 7<sup>th</sup> Sem)**



**SGPA-wise Result Analysis (EE – 8<sup>th</sup> Sem)**

# PLACEMENT, HIGHER STUDIES, ENTREPRENEURSHIP

## Passout Batch 2017



# Department of 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 technologists 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.
- Inspire 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.

## PO (PROGRAM OUTCOMES)

- a) **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- b) **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

- c) Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- d) Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.**
- e) 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.
- f) The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- g) Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- h) Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- i) Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- j) 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.
- k) Project Management and Finance:** Demonstrate knowledge and understanding of 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.
- l) 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.

## PSO (PROGRAMME SPECIFIC OUTCOMES)

- 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.

## 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 (-23°C), 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.*

**Courses Offered: 4 years B.Tech in Food Technology**

**Placement:** *There is a huge job opportunity of B. Tech. Food Technology in both government and private sectors. In Govt. Sector: Lecturer in Govt. Diploma Colleges, Food Inspector, Agricultural Marketing Officer, Jobs in FCI, FSSAI, MOFPI; Agriculture Officer in Govt. Banks, Food Testing Laboratories of Govt. of India, Agricultural Associate in SBI, DRDO, ICAR research institutes, Indian Army etc.*

***In Private Sector:*** ITC Food Division, Britannia Industries Ltd., PepsiCo (India) Holdings Pvt. Ltd, Bengal Beverage (Coco Cola), Keventer Agro, EFRAC, Greenfz Beverage Pvt. Ltd , Jubilant Food Works, India Dairy Products (AMUL), Red Cow Dairy, Thacker Dairy, Bisk Farm (Saj Food Products Pvt. Ltd.), Almarai (UAE), Don-Limon (Germany), Nestle India Ltd., Sudha Dairy Dairy, Patanjali Ayurved Limited, Parle, Priya, Raja Biscuit, Purti Vanaspati, Jubilant Foodworks Ltd., Gujarat Cooperative Milk Marketing Federation Ltd., Anmol Biscuits, Ganesh Food Products, Bisleri International Pvt. Ltd., ELMAC Foods, Vitarich Agro Food (Ind. Ltd.), Urban Feast, Shalimar Group, Dream Bake Pvt. Ltd.

***Higher studies:*** Students after passing B.Tech pursued higher studies in the following Universities/Institutes: M. Tech from Jadavpur University, IIT Kharagpur, University of Calcutta, M. S. In University of Dresden, Germany, M. Tech from NIFTEM, SLIET Punjab, IICPT Thanjavur, ICT Mumbai, MBA from IISWBM, Kolkata, MBA from Symbiosis, Pune, NIT Durgapur, ISB Hyderabad.

***Entrepreneurship:*** The scope to become an entrepreneur in Food Processing Sectors is getting exponentially higher day by day. Our students are showing great interests to set up their own business related to Food Technology instead of choosing Govt. or Private sector jobs.

## HOD'S MESSAGE



**Prof.(Dr.) Subhajit Ray**

**I**t 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 institutes 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.

## DEPARTMENTAL ACHIEVEMENTS

### *Faculty Achievements:*

- **Dr. Chaitali Chakraborty** awarded **Best Mentorship Award** on **7<sup>th</sup> September, 2016**
- Two **UGC -MRP** of **Dr. Subhajit Ray (HOD; FT)** and **Dr. Chaitali Chakraborty**, Assistant Professor of FT Dept. of **Rs. 4, 10,000/-** and **4, 50,000/-** respectively has been sanctioned during 2016-2017.
- **Dr. Subhajit Ray**; HOD of Department of Food Technology is selected as an **Editorial Board member** for **International Research Journal of Agricultural and Food Sciences (IRJAFS)**. Published by Prudent Publisher from June 2016.



- **Dr. Kakali Bandyopadhyay** has acted as **Technical Expert in ISO 22000: 2005 FSMS Audit** in **Vinayak Oils & Fats Pvt. Ltd.**

### *Student Achievements:*

- **Ms. Manasi Ray, Ms. Chandrani Dutta, Ms. Sanjana Chakraborty, Mr. Ushnil Dutta** were awarded **third prize** in the category of **Label-writing in Intercollegiate Food & Nutrition Development Association of India** in collaboration Department of Food Technology and Biochemical Engineering, **Jadavpur University**.



- Ms. Medha Pal was awarded **Gold Medal at 8th Annual Convocation of MAKAUT** for securing 1st position in B.Tech , FT Course.
- Ms. Riya Dasgupta, Ms. Prostuti Chakravorty, Ms. Suravi Chakraborty and Ms. Rupsha Roychowdhury got opportunity to carry out **Indo-German collaborative research program** for three months duration on “**Review literature on Sweet Potato**” under **DON LIMON, GmbH, Hamburg, Germany.**
- Ms. Pritika Prasad and Ms. Riya Dasgupta got opportunity to carry out **Indo-German collaborative training and research program** for two months duration on “**Post-Harvest Profile of Indian Grapes**” under **DON LIMON, GmbH, Hamburg, Germany.**
- Ms. Nilanjana Dey awarded **2nd in online Quiz at Prakriti-2017, IIT Kharagpur.**
- Mr. Bigroha Hajra has presented Paper in **International Seminar on ‘Contemporary Developments in Nutritional Researches’** organized by **IQAC & Department of Food and Nutrition at Barrackpore Rastraguru Surendranath College.**
- Ms. Lopamundra Banerjee secured **1<sup>st</sup> position in Tesseract 2017 Tech Quiz event.**
- Ms. Riya Dasgupta, was **awarded 2<sup>nd</sup> position in Poster Presentation** on original research work on **banana peel Muffin: A great Way of Waste Utilization** at **National Seminar on A Dairy Snapshot -2017**

**DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)**

**a. Organized**

- **Departmental BOS meeting held on 5<sup>th</sup> July, 2016 in presence of Prof (Dr.) D.C. Sen, Department of Dairy Technology, WBAUFS as an external expert.**
- **Invited Talk on “Prospective development of Food Technologist’s under German Collaboration” by distinguished alumni Mr. Debjit Ghosh, Don-Limon GmbH, Hamburg, Deutschland, Germany on 13th July 2016**
- **“Industry Invited talk on “Prospect of Food Technology Graduates in Bakery & Confectionary Industry” by Mr. Zeeshan Ahmed, Sr. Officer-Quality Control Switz Foods Private limited on 29<sup>th</sup> August, 2016.**
- **Inauguration of departmental E Magazine on 5<sup>th</sup> September 2016**
- **Invited talk on “Recent development of cheese and alcoholic beverage manufacturing industry” by two distinguished alumni of Dept. of Food Technology, Mr. Abhishek Paul, Team, Manager, Cheese Plant, Almarai, AUE and Mr. Biswanath Mukhopadhyay, Senior Tech. Executive, United Breweries on 21<sup>st</sup> October, 2016.**
- **Departmental Parents Mentor Meet was organized on 12<sup>th</sup> November, 2016.**
- **Seminar on Recent Advances in Food Processing Technologies, by Prof. Utpal Roy Chowdhury, Former Professor & Head, Department of Food Technology & Biochemical Engineering, Jadavpur University on 4<sup>th</sup> April, 2017**
- **Inauguration of departmental News Letters on 14<sup>th</sup> November 2016 and 5<sup>th</sup> April 2017.**
- **Organised poster presentation in TESSARACT on 16<sup>th</sup> February 2017**
- **Departmental BOS meeting held on 4<sup>th</sup> May, 2017**



Departmental BOS meeting held on 4<sup>th</sup> May,2017

- Department of Food Technology organized five days Faculty Development Program On **FOOD PROCESSING AND PRESERVATION** on 19<sup>th</sup>-23<sup>th</sup> Dec, 2016.

**Faculty Development Program**  
On  
**FOOD PROCESSING AND PRESERVATION**  
19<sup>th</sup>-23<sup>th</sup> Dec, 2016

Organized by:  
Department of Food Technology  
Guru Nanak Institute of Technology  
**GNIT**



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

**Chairperson**  
Prof. (Dr.) Santanu K Sen, Principal, GNIT

**Convenor**  
Dr. Kakali Bandyopadhyay, HOD, FT

**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

**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**  
Dr. Anju Paul, Asst. Prof., FT  
Asst. Professor, Dept. of FT, GNIT  
Mobile: (+91) 9038659358

- Department of Food Technology organized five days Faculty Development Program On **THERMAL AND NON THERMAL FOOD PROCESSING** on 5th-9th Jun, 2017.

**Faculty Development Program**  
On  
**THERMAL AND NON THERMAL FOOD PROCESSING**  
5<sup>th</sup>-9<sup>th</sup> Jun, 2017

Organized by:  
Department of Food Technology  
Guru Nanak Institute of Technology  
**GNIT**



Guru Nanak Institute of Technology  
157/F, Nilgunj Road, Panihati,  
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**Participants**

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

**Contact Person**  
Dr. Anju Paul, Asst. Prof., FT  
Asst. Professor, Dept. of FT, GNIT  
Mobile: (+91) 9038659358

#### b. Participated

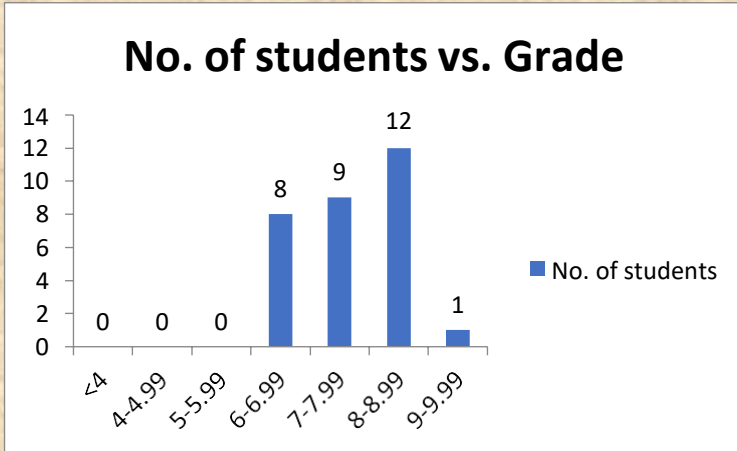
- Dr. Subhajit Ray has participated in a seminar on Interactive Session with Mr Ramesh Abhishek, Secretary, Department of Industrial Policy & Promotion (DIPP), Government of India, Organized by CII (Eastern Region) on 16th July 2016
- Dr. Subhajit Ray has attended one seminar on Industry Academia Innovation Platform Organized by CII (Eastern Region) at Lalit Great Eastern Hotel, Kolkata on 22nd August, 2016
- Dr. Anju Paul has attended a Session on Entrepreneurship Programme at Park Hotel, Kolkata on 25th July 2016

## RESEARCH & PUBLICATION

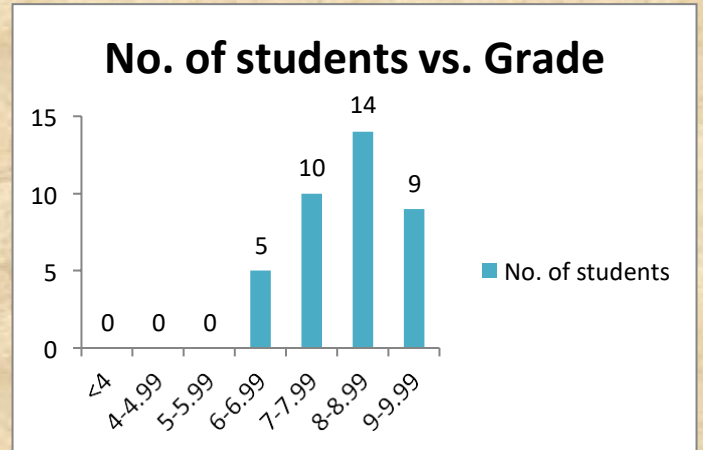
Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
FT	11	25	8	12	56

# RESULT ANALYSIS

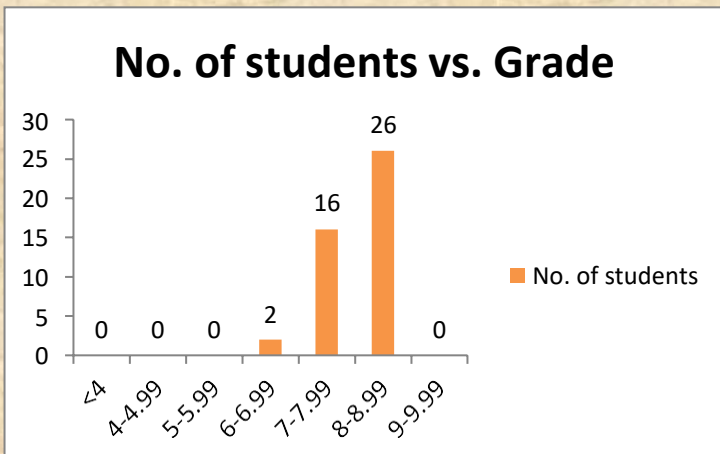
## YGPA WISE RESULT ANALYSIS (FT) AY 2016-17



### YGPA-wise Result Analysis (FT 2<sup>ND</sup> YEAR)



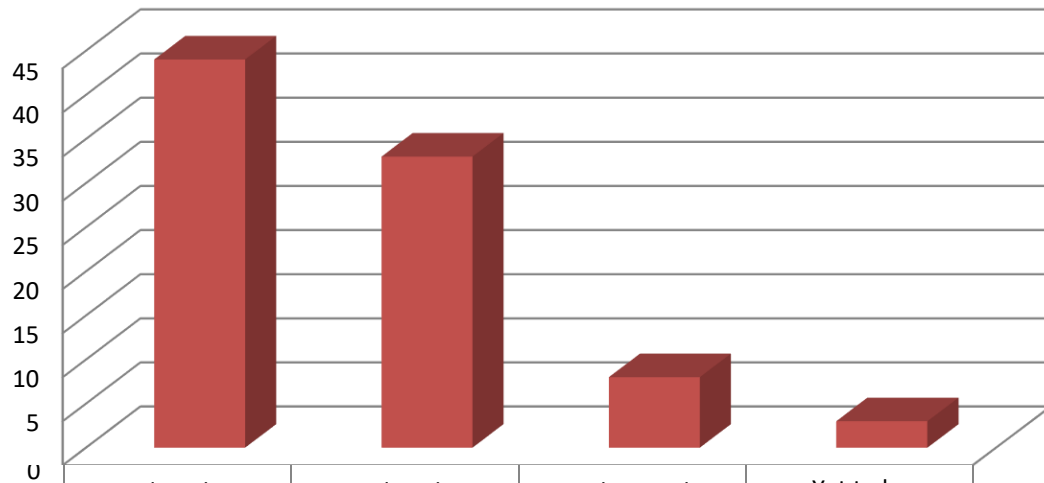
### YGPA-wise Result Analysis (FT 3<sup>RD</sup> YEAR)



### YGPA-wise Result Analysis (FT 4<sup>TH</sup> YEAR)

## PLACEMENT, HIGHER STUDIES, ENTERPRENURESHIP

### 2017 Passed out batch



	Total students	Placed	Higher study	Yet to be placed
Series1	44	33	8	3

# Department of 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.

## PEO

- The Program Educational Objectives (PEOs) are established such that the graduates from this program can achieve their goals in their professional fields. The Program Educational Objectives are as follows:

- Students will possess the knowledge and ability to apply current business and financial principles, including theory and techniques, to the health care environment.
- Students will exhibit the knowledge regarding various attributes of leadership and demonstrate the capacity for leadership roles.

## **PO (PROGRAM OUTCOMES)**

- Students will possess the knowledge and ability to apply current business and financial principles, including theory and techniques, to the health care environment.
- Students will exhibit the knowledge regarding various attributes of leadership and demonstrate the capacity for leadership roles.

## **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 lead 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



**Ms. Debashruti Ganguly**

*The institute has highly competent, committed and proficient faculty who has associated their personal aims and growth with that of institution. We concentrate on providing Group Discussion, Debates, Quiz, Extempore, Soft skill development programme.*

*The students of my department have been actively participating in inauguration of drama & cultural Club, inauguration of wall magazine, arranging picnic and so on.*

## DEPARTMENTAL ACHIEVEMENTS

### *Faculty Achievements:*

- **Ms. Debashruti Ganguly (HOD - BHM)** Awarded with Kriti Award 2016 for outstanding Mentorship.
- **Mr. Suvayan Biswas (Assist: Prof - BHM)** Awarded with Kriti Award 2016 for outstanding Mentorship & for Time Adherence.



### ***Student Achievements:***

- ***Sarthak Kar Ray*** (3<sup>rd</sup> Year BHM) got the award for academic excellence in JIS SAMMAN; Participated in GNIT Cricket Tournament (member of runners-up team)
- ***Abhishek Chakraborty*** (1st year BHM) participated in MR. & MISS KOLKATA contest held at Novotel Hotel, and selected for semi - final
- ***Anurima Roy*** (2<sup>nd</sup> year BHM) scored 9.54 in MAKAUT even semester

### **DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)**

#### **a. Organized**

- Seminar on "Recent Trends In HR in The Health Sector" on 21.11.16.



- "Quality and Medical Records Management in a super speciality Hospital" on 01.03.2017





- **Health Camp Organized followed by free health check up” in association with AMRI Hospital, Salt Lake on 21.04.2017**



- **Department organized Parent Mentor Meet. On 21.04.2016& 29.09.2016**

○



**Departmental Wall Magazine inaugurated On 04.10.2016**

- *Induction Programme (1<sup>st</sup> Year Students)*



**Poster and Model presentation on “Climate Change”**



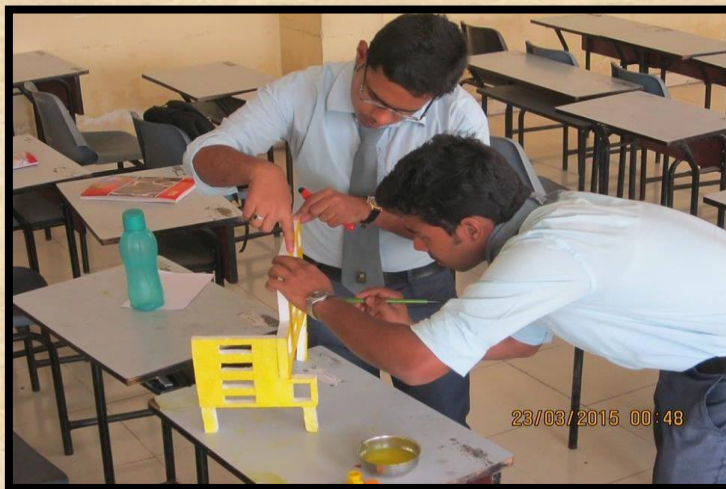
*Alumni Meet of BHM Department 2016-17*

- **Farewell Programme for BHM 3<sup>rd</sup> Year Students**

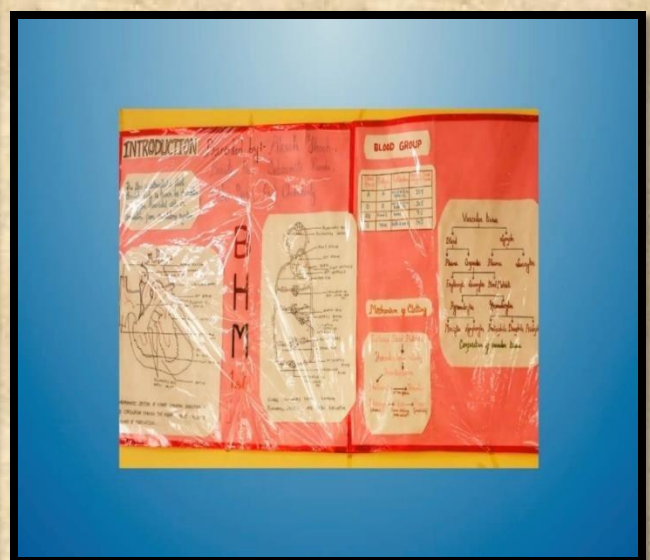
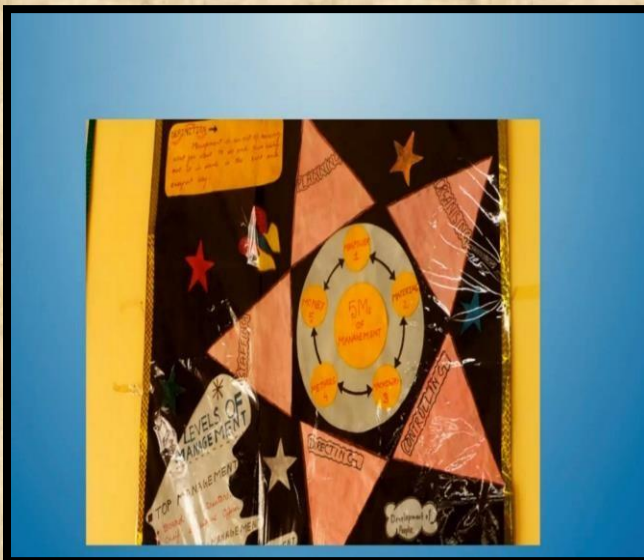


## Participated

### ➤ Model Presentation (Green Hospital) by BHM 3<sup>rd</sup> Year Students



### ➤ Chart Presentation by BHM 3<sup>rd</sup> Year Students



## Departmental Events

- 
- **Adjunct Faculty Classes.**



- **Industry Visit or Internship.**

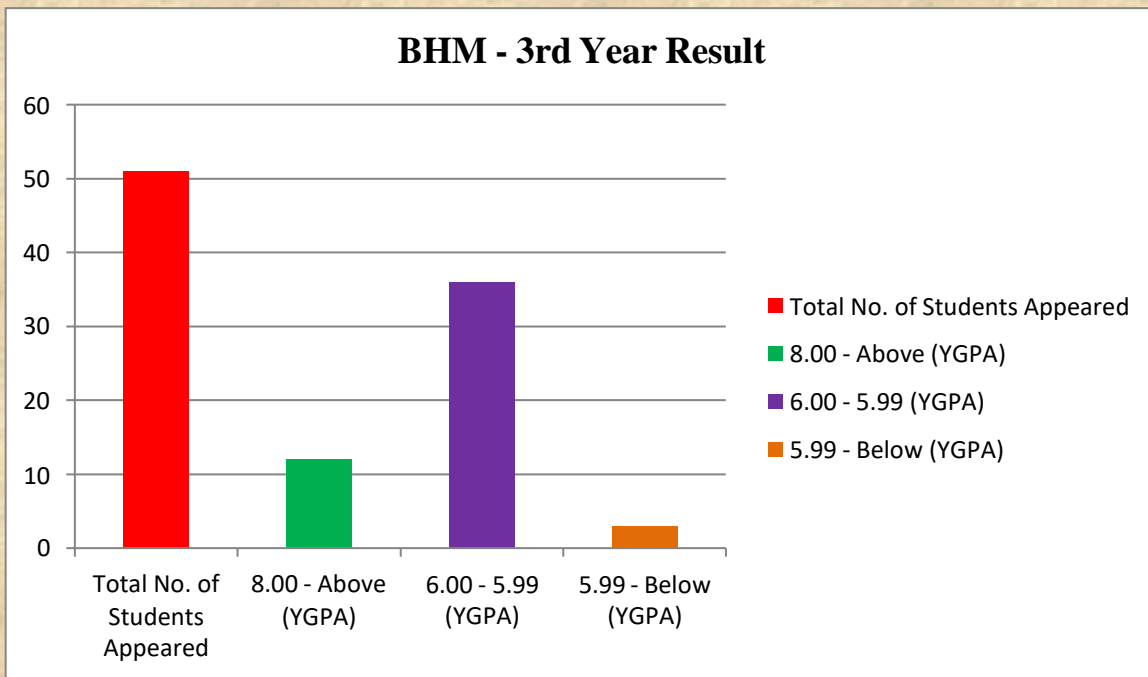


- **Industry Mentor Meet.**

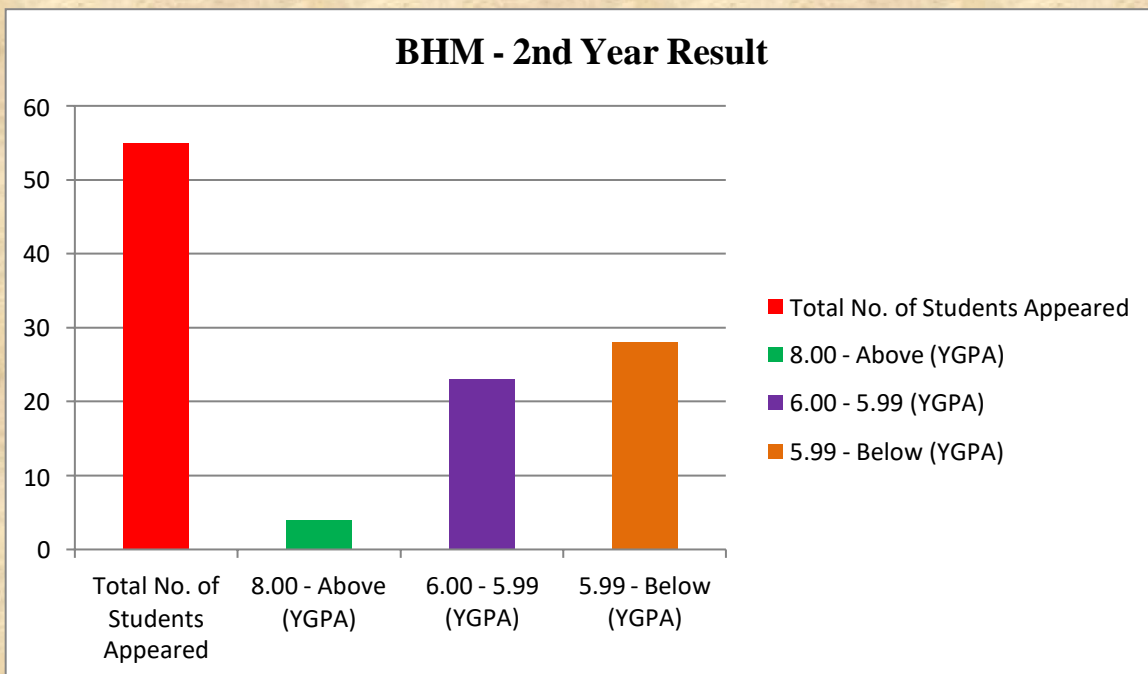


# RESULT ANALYSIS

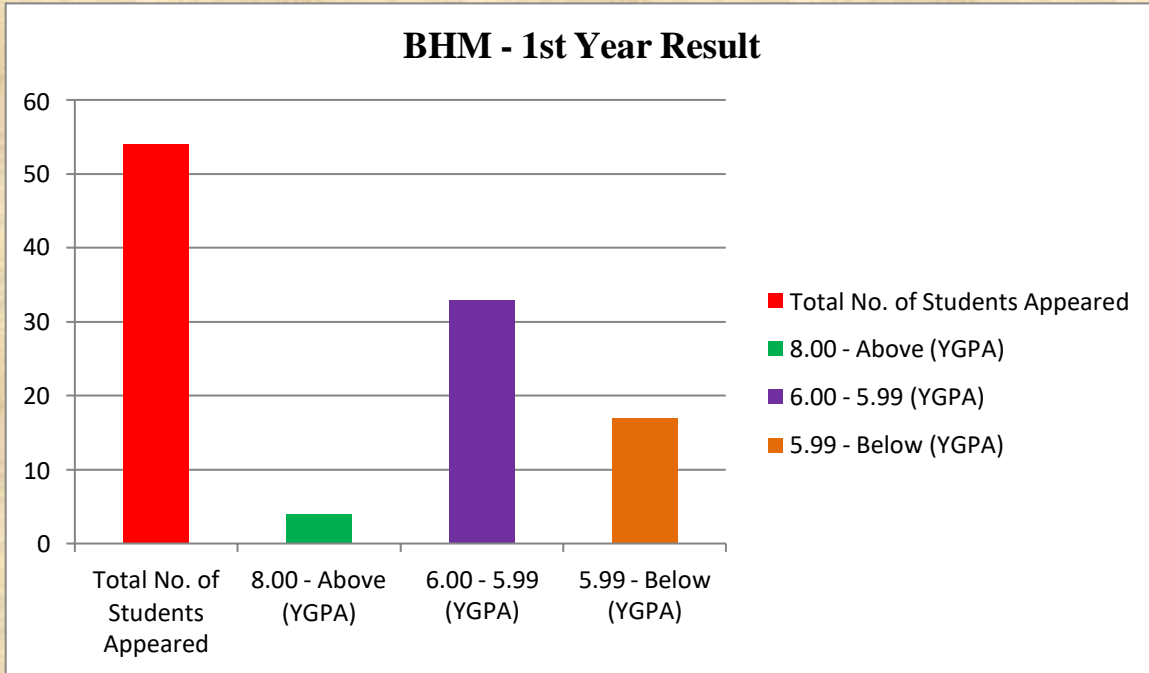
## BHM Final Year (2016 Pass – out)



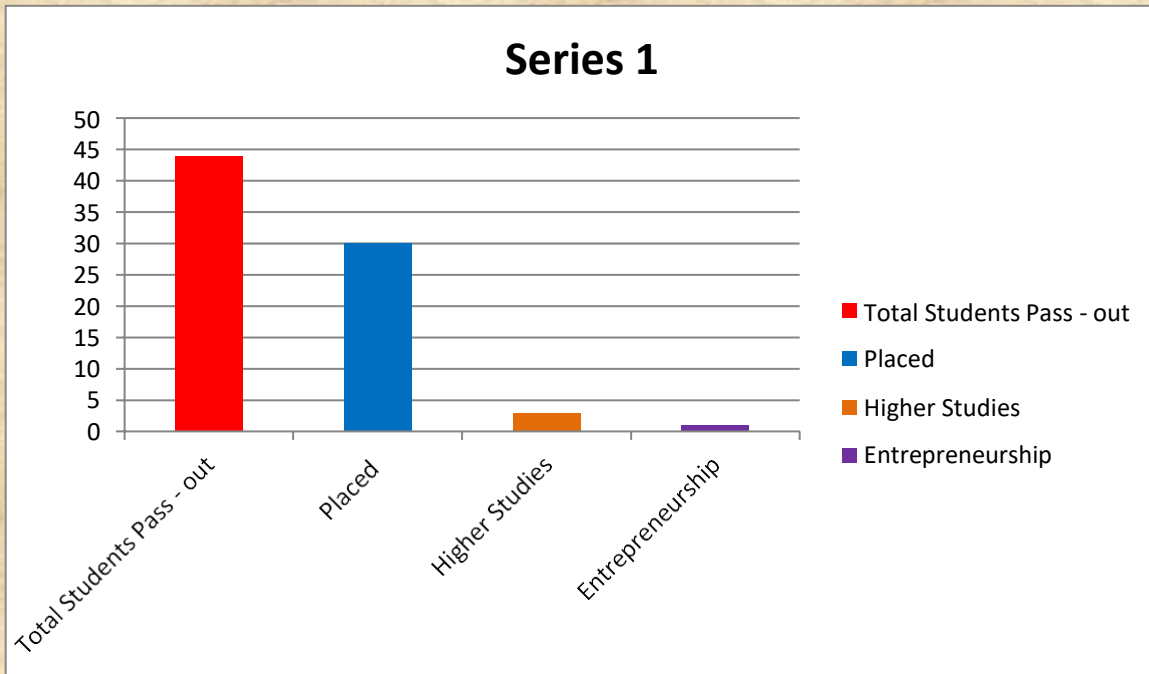
## BHM 2nd Year



➤ **BHM 1<sup>st</sup> Year**



**PLACEMENT, HIGHER STUDIES, ENTERPRENURESHIP**



## Department of 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**

Offering a complete service to the students of technology by ensuring an all round development i.e.

- 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.

## BRIEF OVERVIEW OF THE DEPARTMENT

*The Dept of ASHU is a service department catering to the teaching of several important and basic subjects in all the core engineering departments in the college, not only in the 1<sup>st</sup> Year but also in several other years and semesters of the four year B. Tech course. The Departments and courses catered to by this Department include the following:*

- **B. Tech in Computer Science & Engineering, Applied Electronics & Instrumentation, Electrical Engineering, Electronics and Communication Engineering, Food Technology and Information Technology.**
- **M.Tech in Computer Science & Engineering, Electronics and Communication Engineering, Food Technology**
- **Bachelor in Computer Applications and Master in Computer Applications**
- **Bachelor in Hospital Management**
- **Diploma in ETCE and EE(since 2015)**

*The Dept is quite multi-faceted in its composition, and includes five collateral Sections, each with a separate set-up and a Section-in-Charge. These include:*

- **Physics ,Chemistry,Mathematics,English,Mechanical Science**

*Each Section has well-equipped and state-of-the-art laboratories under it, where students get hands-on practice in subject areas by performing live experiments under teacher supervision.*

*Some of the chief strengths of the Dept include:*

- *Research-active faculty members, with 8 Ph Ds, with expertise in various subjects ranging from Mathematics, Pure and Applied Sciences, Mechanical Engineering and languages, literature and the liberal arts.*
- *Special programs on Aptitude and Training for the students, in Quantitative and Verbal Ability, Autocad and other areas.*
- *Well-equipped state-of-the-art laboratories in different subject areas.*

## HOD'S MESSAGE



**Dr. Sucharita Chakrabarti**

**T**he years 2016-17 witnessed the crossing of several milestones in the development of the ASHU Dept. 2 new Ph Ds were awarded, 4 UGC MRPs were ongoing and another approved. Several faculty members did us proud by securing distinguished positions in all-India ranking in NPTEL-SWAYAM online courses. The college emerged as an autonomous institute (under MAKAUT), and the Departmental members contributed to the development and reframing of courses and curricula. Some members also performed administrative roles like Exam Supervisor, Officer-in-Charge, Head Examiner, with befitting responsibility. In R & the Dept conducted in-house seminars, workshops and training programmes and faculty members presented in seminars/symposia in India and abroad. Students also through the NSS programme participated in diverse activities like donation of clothes and money, books for needy children, cleanliness campaigns, wildlife protection and help for orphans. The Dept, in fact, grew from strength to strength!

## DEPARTMENTAL ACHIEVEMENTS

- Chinmay Ghosh, Assistant Professor, Mathematics, published the paper “Generalized Relative Order-Dependent Growths of Composite Entire Functions” in the *Korean Mathematical Society*(Scopus-indexed) and “On Relative (p; q)-th Order Based Growth Measure of Entire Functions” SCI indexed-Filomat 30:7 Aug. (2016), pp. 1723-1735. ISSN 0354-5180 (Print) ISSN 2406-0933 (Online). DOI 10.2298/FIL1607723D (7.8.2016).
- Dr Indrajit Bhattacharjee, Assistant Professor, Chemistry, published the paper, “Spatiotemporal control of degenerate multiphoton fluorescence microscopy with delay-tunable Femtosecond pulse pairs” in *Chemical Physics Letters* (24.5.2016) **Elsievier-indexed**.
- Anup Kumar Thandar, Assistant Professor, Mathematics, published the paper, Optimization of structure parameter of a rib waveguide using optical modal index analysis through higher order compact FDM. 2016 (IEEE Uttar Pradesh section international conference on electrical, computer and electronics engineering) and ”Optical confinement study of different semi conductor rib waveguides using higher order compact finite difference method”. *Optik* (11.8.2016) (Scopus-indexed).
- Dr Sucharita Bhattacharyya, Associate Professor, Physics published the paper “Study of Optical Modal Index for semi conductor rib wave guides using higher order compact finite difference method”, *Optik (Elsevier)*[Vol. 131 (2017) 775-784] and “Optimization of Structure Parameters of a Rib Wave Guide using Optical Modal Index Analysis through Higher Order Compact FDM.” 3rd IEEE Uttar Pradesh Section International Conference on Electrical, Computer, and Electronics, (9-11 December, 2016) (12.4.2017)

### ***Book chapters:***

- **2 members contributed to chapters in 2 books.**
- **1 paper achieved Excellent Paper Award “Solid Waste Management (SWM) : Case Studies at an Educational Campus and in the neighbourhood of Panihati , North 24 Pargana, West Bengal, India” Published in Conference Proceedings of International Conference : ICON SWM 2016 (Nov 2016) , organized by JU in association with IIT, KGP & IISC, Bangalore.**

### ***Projects:***

The following UGC Minor Research Projects were ongoing/completed in the Dept:

- **Dr Sucharita Bhattacharyya (PI), Study of Optical Wave Guide using HOC Scheme for Efficient wave propagation.**
- **Samata Saha (PI), Ceramic reinforced metal matrix composites with enhanced properties and characterization.**
- **SucharitaChakrabarti (PI),Study of metallic crystal lattices- an approach based on topological graph theory.**
- **Dr Indrajit Bose (PI),Speaking Proficiency Development of EFL and ESL Learners in India: A Contrastive Study.**
- **Dr MainakDebnath (PI),Chemistry of Vanadium complexes with phenol based ligands: Synthesis, Structure and Catalytic studies.**

### ***Project (approved):***

- **Soma Mukherjee (PI),“Fabrication and study of transport and dielectric properties of nonsilicate bioactive glasses prepared by solgel method”.**

### ***Ph.D. Awarded:***

- **Dr. Sucharita Chakrabarti in Mathematics from MAKAUT in April 2017.**
- **Dr. Mainak Debnath on Chemistry at JU (June 2017).**

### ***Distinguished Performance in MOOCs Courses:***

- **Mr Gautam Mandal, Assistant Professor of Mathematics secured the 1<sup>st</sup> position among 815 enrolled candidates in the NPTEL course on Stochastic Processes-1 (ELITE category)- (September-October 2016).**
- **Mr Chinmay Ghosh, Assistant Professor of Mathematics secured ELITE category in the NPTEL course on Curves and Surfaces (September-October 2016) and Modern Algebra.**

- **Mr Anup Kumar Thandar, Assistant Professor of Mathematics secured ELITE category in the NPTEL course Basics of Finite Element Analysis – I and Computational Electromagnetics & Applications.**
- **Mr Sanjay Biswas, Assistant Professor of Mathematics secured ELITE category in the NPTEL course, Modern Algebra.**

### **DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)**

- **Organized a Seminar on “Water Pollution and Water Quality Improvement”- Commemorating 155th Birth Anniversary of Acharya Prafulla Chandra Roy on 2<sup>nd</sup> August 2016. Where Dr. Sumit Nandi, HOD, BSHU Department, Narula Institute of Technology, Agarpara, ,Prof PradipSikdar, Senior Professor, IISWBM and Prof Dipankar Chakraborti, Director (Research), School of Environmental Studies, Jadavpur University, Kolkata participated as a speaker.**
- **In a Student Social Welfare Activities,-students actively taking part and organizing various awareness programs like, “Save water, save electricity”.**
- **Students took out a rally with awareness posters on Dengue and Scrub Typhus in college neighbourhood. Swachh Bharat, Tree plantation, blood donation camp, undertook a case study on ‘Solid Waste Management’ in the Guru Nanak College campus.**



- **Students also celebrated International Women's Day (in association with Women’s Grievance Cell )by organizing a seminar and debate competition on the topic "Present generation women- the home breakers" on March 9, 2017.**



- Students actively promoted social welfare by contributing to the Calcutta Orphanage, the Missionaries of Charity and the **Bharat Sevashram Sangha**.

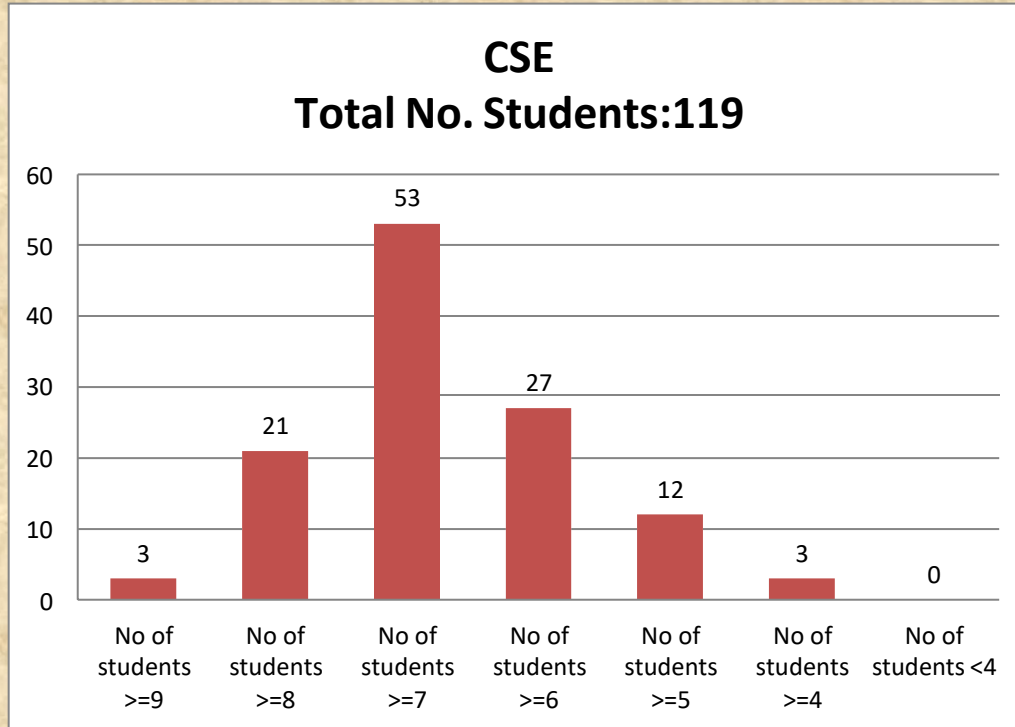
## RESEARCH & PUBLICATION

Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
<b>ASH</b>	<b>1</b>	<b>6</b>	<b>8</b>	<b>8</b>	<b>23</b>

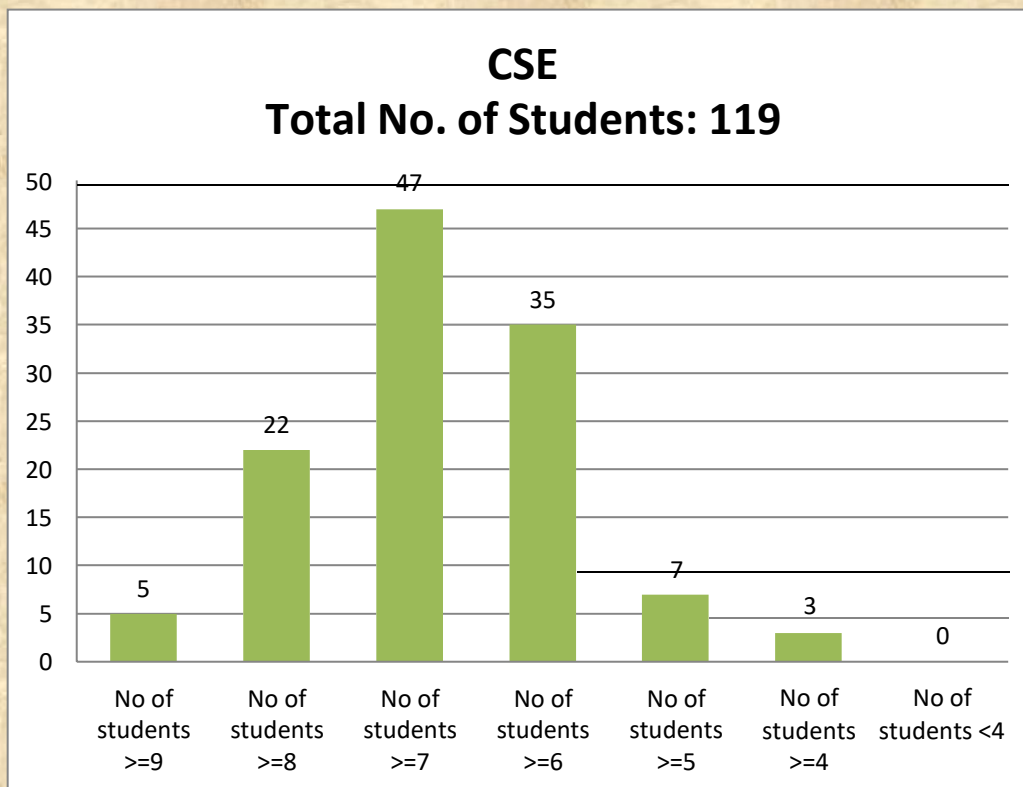
# RESULT ANALYSIS

YGPA WISE RESULT ANALYSIS (ASHU) AY 2016-17

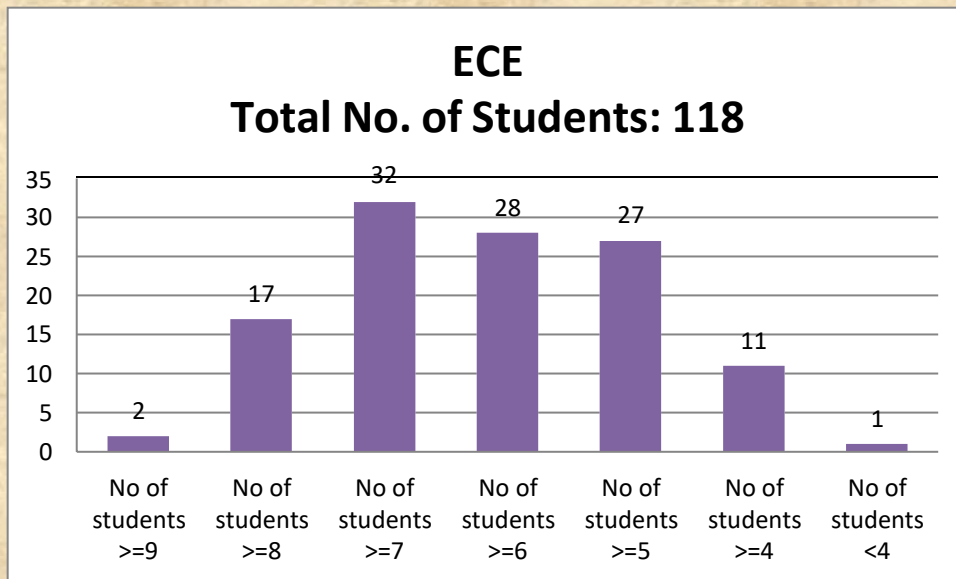
Department : CSE (1<sup>ST</sup> Sem)



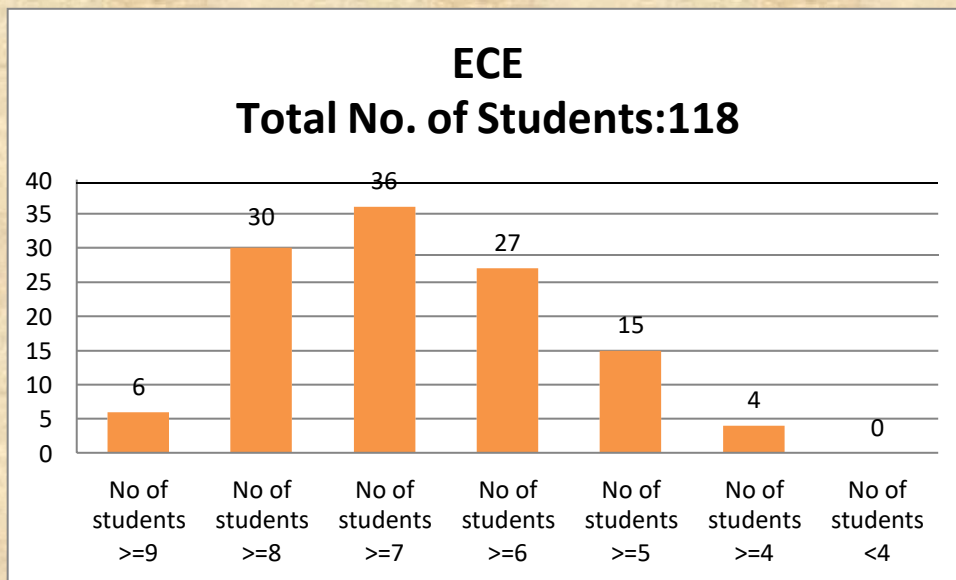
Department : CSE (2nd Sem)



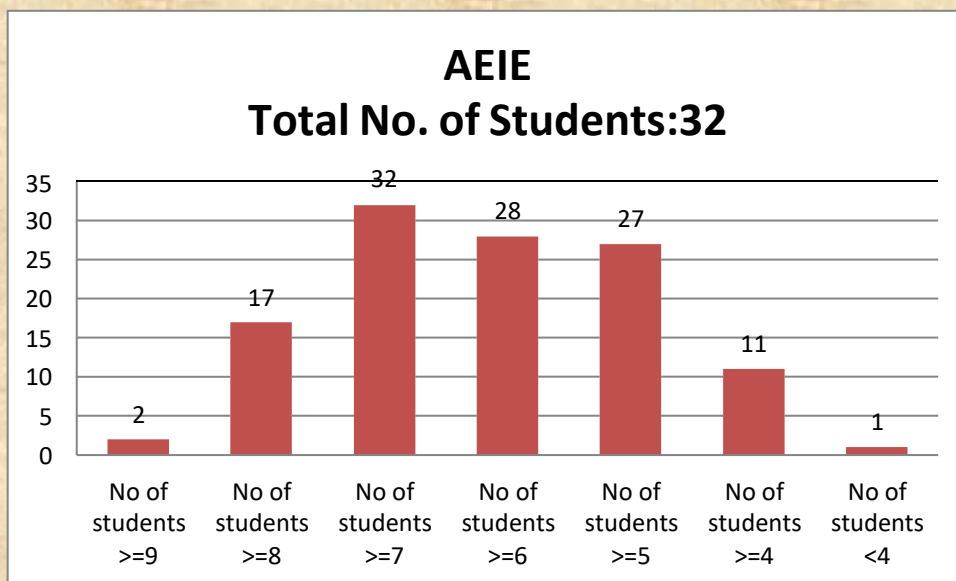
**Department : ECE (1ST Sem)**



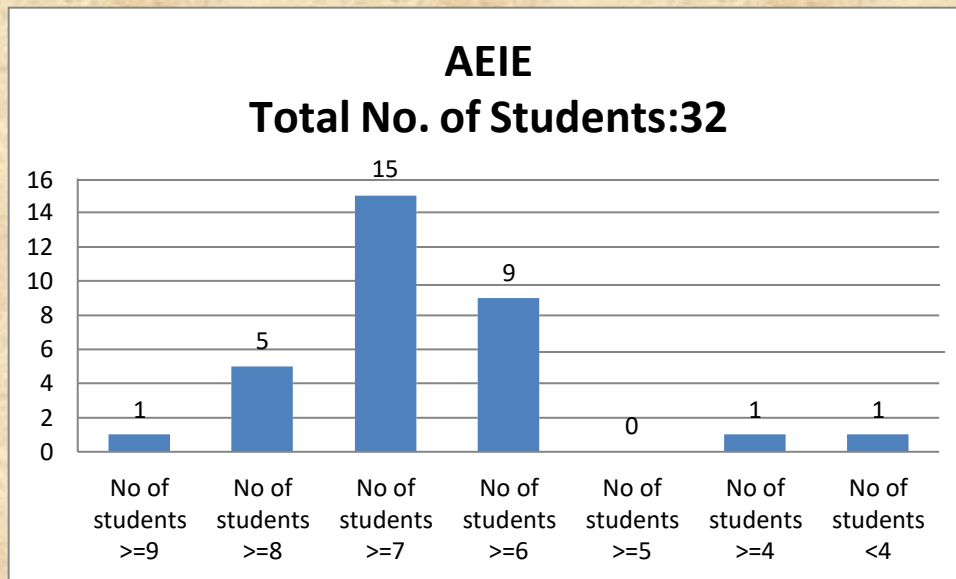
**Department : ECE(2ND Sem)**



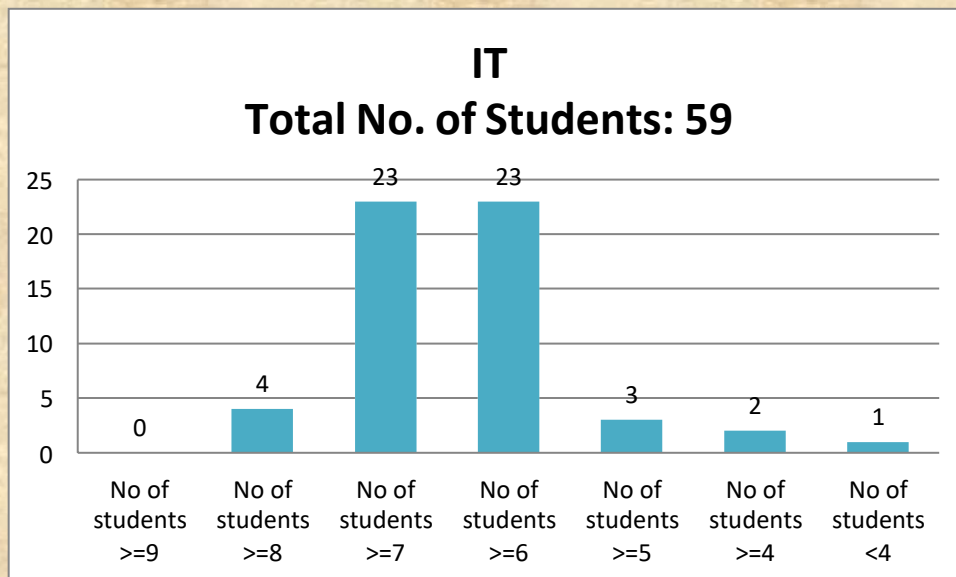
**Department : AEIE (1ST Sem)**



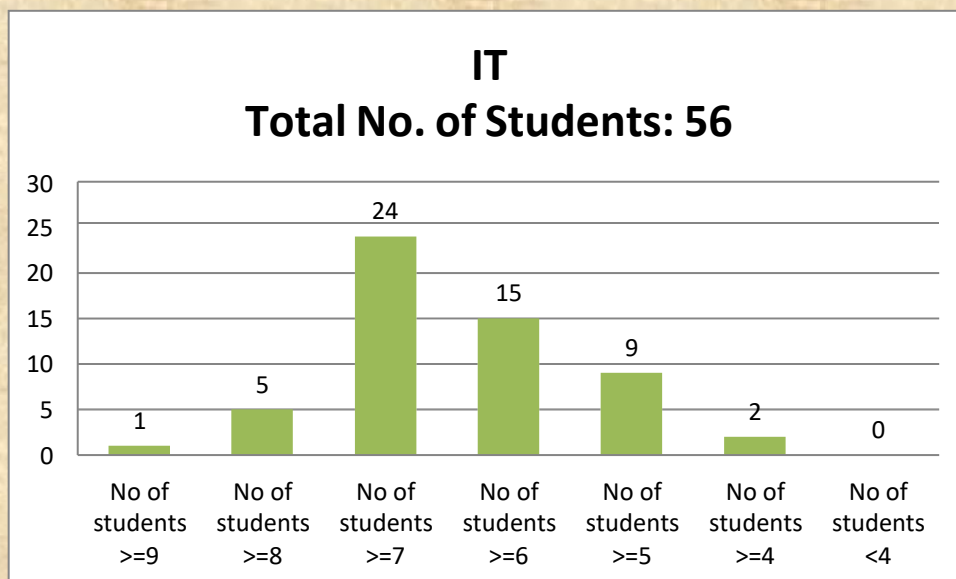
**Department : AEIE(2ND Sem)**



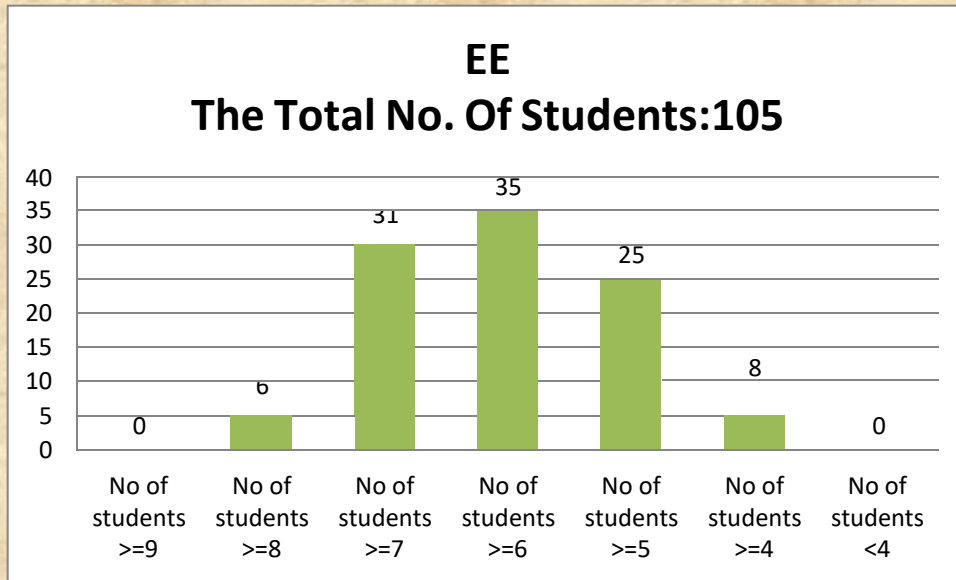
**Department : IT (1ST Sem)**



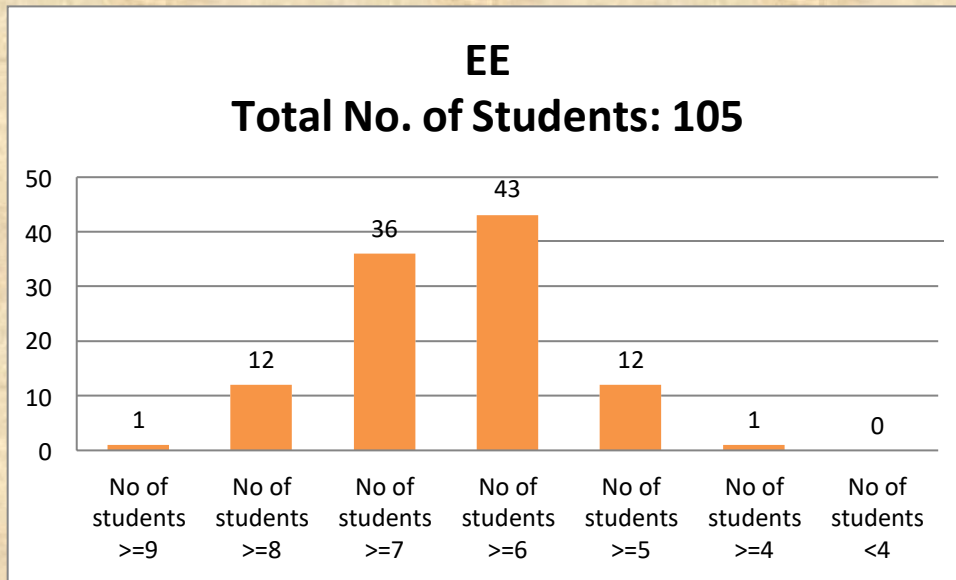
**Department : IT(2ND Sem)**



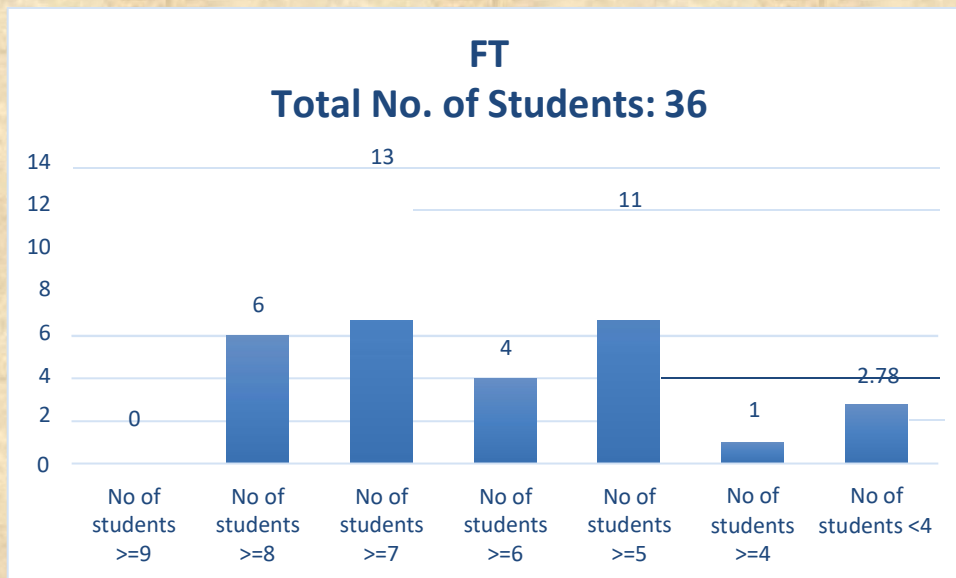
Department : EE (1ST Sem)



Department : EE(2ND Sem)

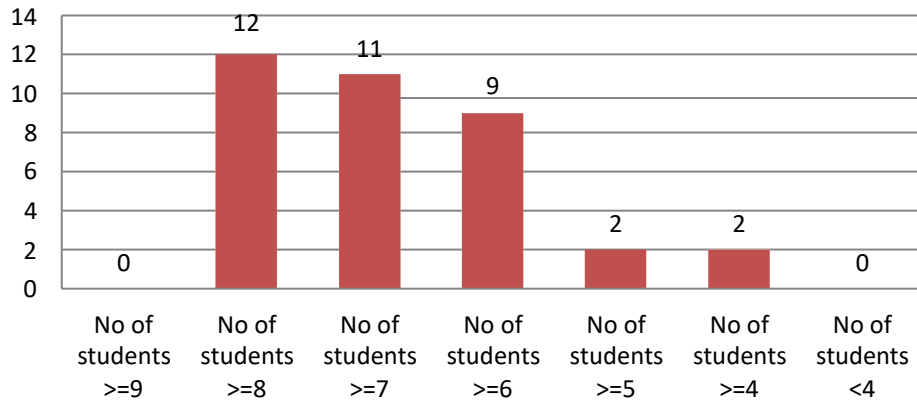


Department : FT (1ST Sem)



### FT

Total No. of Students: 36



# Department of Computer Application

## VISION OF THE DEPARTMENT

The Department of Computer Application aims to produce technically competent, skilled IT professionals, researchers and entrepreneurs with the ability to apply their knowledge in IT industry, research & development or in entrepreneurial arena and they can meet the challenges in modern IT industry.

## MISSION OF THE DEPARTMENT

- Knowledge based academic environment
- Excellence in teaching-learning, research, development
- Enable students to solve s/w related problems by own
- To bridge the gap between industry and academia
- Mentoring the students with effective communication skills
- Ensure students are groomed in the society as a true human & successful professional.

## PEO

- PEO 1: To prepare students industry ready
- PEO 2: To provide an excellent academic environment
- PEO 3: To provide skills with a firm foundation in Mathematical, Technical and Programming fundamentals
- PEO 4: To inculcate good technical and managerial skills
- PEO 5: Encourage students to grow in professional and social environment

## PO (PROGRAM OUTCOMES)

- a) **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- b) **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

- c) **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- d) **Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.**
- e) **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.
- f) **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- g) **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- h) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- i) **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- j) **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.
- k) **Project Management and Finance:** Demonstrate knowledge and understanding of 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.
- l) **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 Application devoted to study and research. It runs two courses MCA (under autonomy environment) and BCA both under MAKAUT. The combination of competent and vibrant faculty members, modern infra structure and technical resources give an edge to the young technocrats.*

## HOD'S MESSAGE



**Mr. Animesh Kar**

Our department started in 2007 with only MCA stream and from 2008 BCA started. We are fortunate to be the choice of most of the stake holders. CA department believes in excellence in education and innovation. It gives best placement to students. Teacher-student relationship is a matter of pride for us.


## DEPARTMENTAL ACHIEVEMENTS

- **Sanjib Saha, of BCA 5<sup>th</sup> Sem got 1st prize in Group Dance at Melange 2017, the annual fest of National Medical College on 14/09/2017.**
- **Sanjib Saha, Suchanda Ray, of BCA received Jury Prize for Duet Dance Performance in KALAMANDALAM in Inter College Eastern Dance Competition on 12/10/2017.**

- Subhankar Sutradhar, of MCA 5th Sem & Kushal Saha, of BCA 3<sup>rd</sup> Sem Perform Songs at Mohor Kunja, Rabindra Sadan on 3/11/2017 at “Jangal Mahal Udyog” program organized by Govt. of West Bangal.
- Pradipta Das & Gobind Deep Singh, students of BCA 1<sup>st</sup> Sem was invited on 9/11/2017 to ETV Bangla News Channel as Experts in Ethical Hacking for the program “SADA KATHA KALO KHATA” where they explained about a Bug in server of State Bank of India. The Bug may affect more than 5 Lacs Users of SBI Net Banking Accounts.

**DEPARTMENTAL EVENTS (INDUSTRY MEET, SEMINAR, CONFERENCE, WORKSHOP, INDUSTRY MENTOR MEET, PTM, SPORTS, WALL MAGAZINE ETC)**

a. Organized

**GNIT** 

**One Day Workshop on**


**BIG DATA USING HADOOP**

*Organized by*

DEPARTMENT OF COMPUTER APPLICATION  
**GURU NANAK INSTITUTE OF TECHNOLOGY**

**On 24th February, 2016**

*in Collaboration with*

 **ARDENT COMPUTECH PVT. LTD.**  
(ISO 9001-2008 CERTIFIED COMPANY)

[www.ardentcollaborations.com](http://www.ardentcollaborations.com)

Contact No: 8961124261(M) & 8697344627(M)

- CA Inno-vision 2016 was organized by department of computer applications on 18<sup>th</sup> march, venue : Software engineering lab , CA dept.





- **Industry Expert Meet 2016** for Enriching Students with the Current Trends in the Industry, was organized on 18th May, participants were students of BCA & MCA.



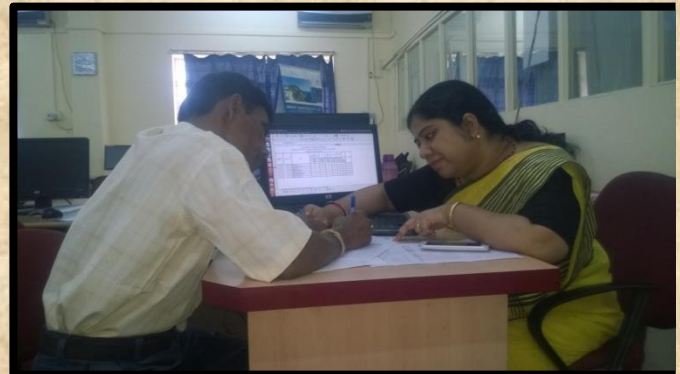
- **Industry Expert Meet from Cognizant Technology Solution on 26 August**, Final year students of MCA & BCA interact with Mr Saugata Sarkar, Senior Project Associate, on “Recent trends of Data Science and its application”.



- **Industry Expert Meet from Ejob India Pvt Ltd, Kolkata on 9<sup>th</sup> November, Final year students of MCA & BCA interact with Mr Sourav Kundu, Operational Head, on “Industry Meet Professional Expertise and Ethics”.**
- **Essay Competition on “Privatization is Essential to Public Service” on 23<sup>rd</sup> August, for All Students of BCA & MCA, to develop the writing skill among students.**



- **Parent Mentor Meet, Odd Semester 2017, where Parents/Guardians of BCA & MCA students are invited by the respective mentors, About 78+15 parents came to meet respective mentors to discuss progress and difficulties about their wards.**



- **To boost the running students by the placed students, their experiences in industry and also industry demand technology one Alumni Meet has been organized on 31st July, participants are the current students as well as passed out students of BCA & MCA.**



- Teachers' Day Celebration was carried by all the students of BCA & MCA on 7th September, to respect teachers, seniors & self and to encourage the communication among departmental students.



- A Blood Donation Camp was organized on 15th September by the Students & Staff of the CA department, associated by Department with National Medical College, About 50 students donated blood.
- Education Day Celebrated on 13<sup>th</sup> November to appreciate highest YGPA obtainers in each Year students of BCA & MCA, the participants were Year wise Topper of Even Semester Examination 2017.

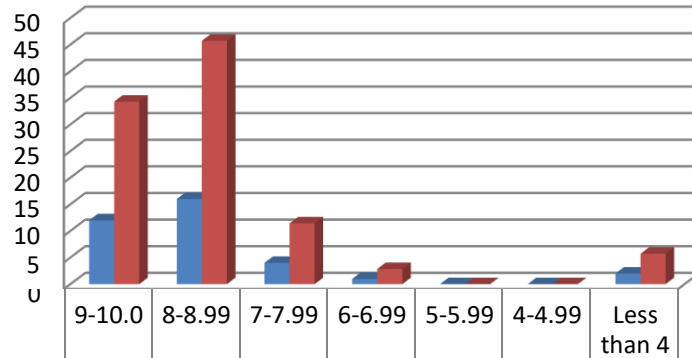


- Departmental Picnic was also carried on 7<sup>th</sup> January by the students of BCA & MCA

# RESULT ANALYSIS

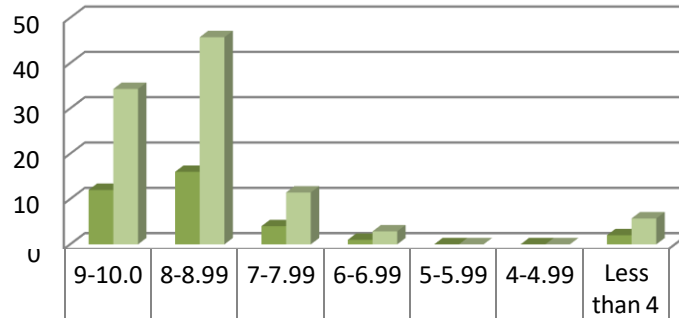
## SGPA WISE RESULT ANALYSIS (CA) AY 2016-17

### MCA 1st Sem 2016 - 2017



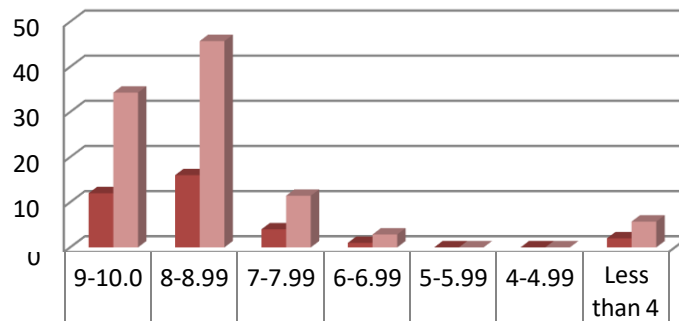
No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

### MCA 2nd Sem 2016 - 2017



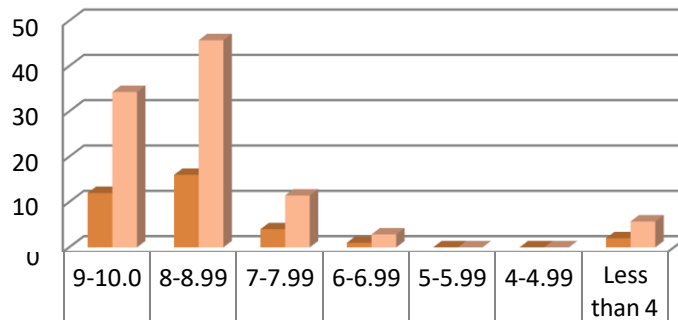
No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

### MCA 3rd Sem 2016 - 2017



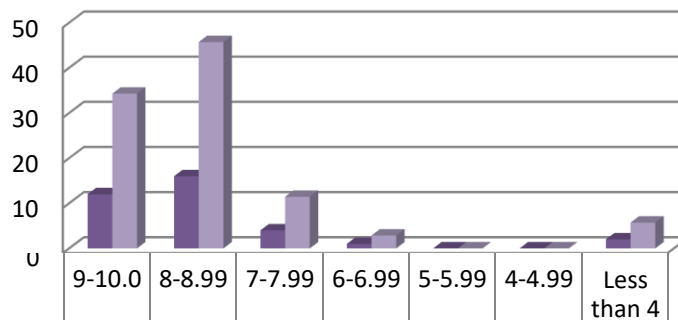
No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

## MCA 4th Sem 2016 - 2017



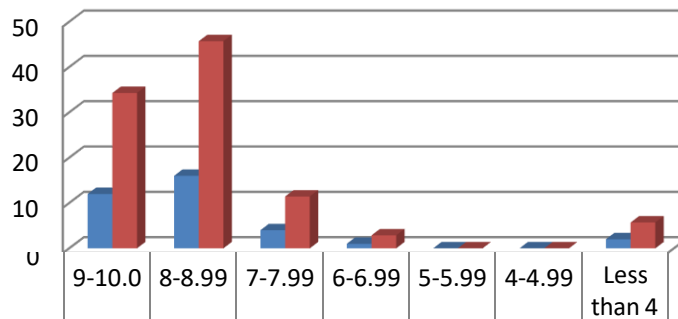
No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

## MCA 5th Sem 2016 - 2017



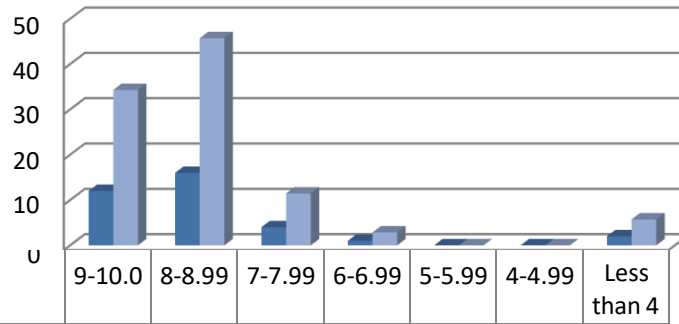
No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

## MCA 6th Sem 2016 - 2017



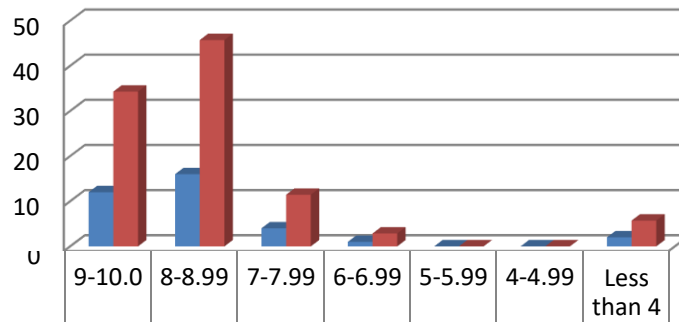
No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

## BCA 1st Sem 2016 - 2017



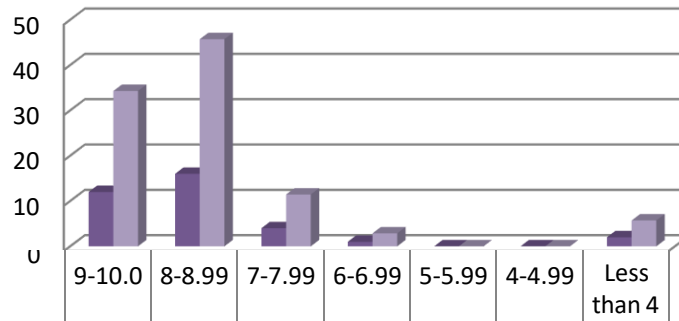
<b>No. of Students</b>	12	16	4	1	0	0	2
<b>% of Students</b>	34.29	45.71	11.43	2.86	0	0	5.71

## BCA 2nd Sem 2016 - 2017



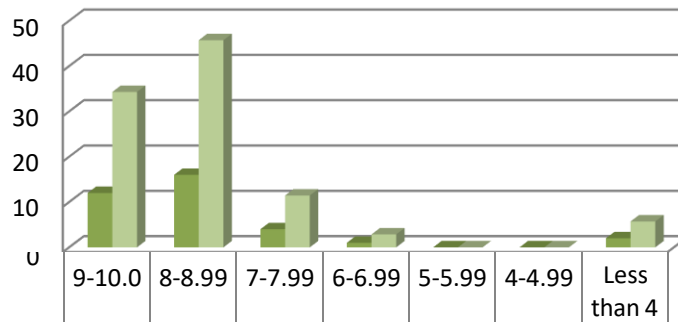
<b>No. of Students</b>	12	16	4	1	0	0	2
<b>% of Students</b>	34.29	45.71	11.43	2.86	0	0	5.71

## BCA 3rd Sem 2016 - 2017



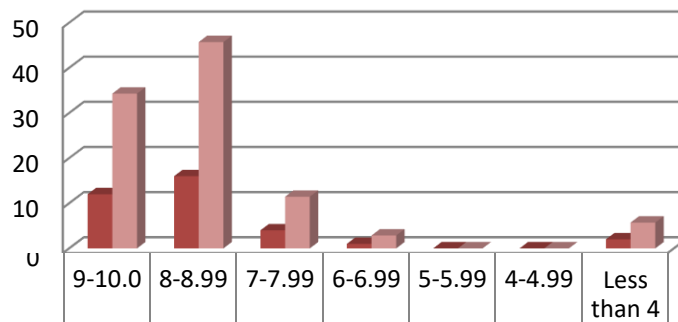
<b>No. of Students</b>	12	16	4	1	0	0	2
<b>% of Students</b>	34.29	45.71	11.43	2.86	0	0	5.71

## BCA 4th Sem 2016 - 2017



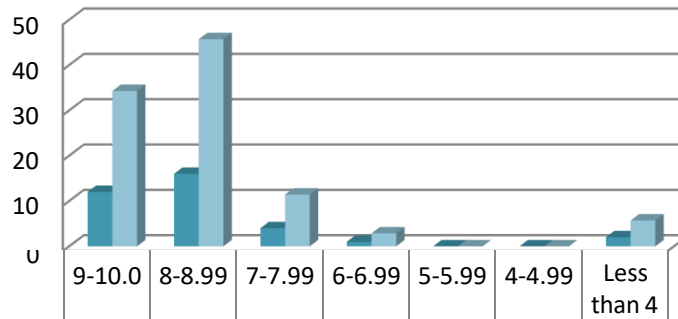
No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

## BCA 5th Sem 2016 - 2017



No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71

## BCA 6th Sem 2016 - 2017



No. of Students	12	16	4	1	0	0	2
% of Students	34.29	45.71	11.43	2.86	0	0	5.71



**Research  
&  
Publication**

# FACULTY PUBLICATION

Academic Year	Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
2016-17	CSE	0	4	7	6	17
	ECE	0	0	1	12	13
	AEIE	0	0	3	4	7
	EE	0	0	6	1	7
	IT	0	2	7	3	12
	ASH	1	6	8	8	23
	FT	11	25	8	12	56
	CA	0	0	0	0	0
			12	37	40	46

# DEPARTMENT: CSE

## National Seminar / Conference

**Ipsita Saha**, Angika Roy, Anirban Roy, Indranil Choudhury, Ar adhya Kundu, Kaustav Dutta,” Implementing Smart City- An Approach Towards Big Data Analysis and Internet of Things”, paper accepted in 1<sup>st</sup> Regional Science and Technology Congress, 2016, NITTTR, Presidency Division West Bengal, 13<sup>th</sup> -14<sup>th</sup> November, 2016, NITTTR, Kolkata.

**Moloy Dhar**, **Sourish Mitra**, Kunal Singh,” Implementation of Hand and Voice Biometrics Based on GMM” paper accepted in 1<sup>st</sup> Regional Science and Technology Congress, 2016, NITTTR, Presidency Division West Bengal, 13<sup>th</sup> -14<sup>th</sup> November, 2016, NITTTR, Kolkata.

**Moloy Dhar**,”Human Motion Tracking using Image Annotation Techniques, NCAISC 2017 , National Conference on Advances in Interdisciplinary Sciences-2017 will be organized on 27th-28th January, 2017 by the Science Forum in association with West Bengal State University, Bhairab Ganguly College, 27.01.2017.

Vivek Kumar, Subham Saha, Subham Vishwakarma, Suparna Dutta, Sandeep Sah, **Ipsita Saha** “A business model towards Collection and Disposal mechanism of E-Waste components”, National Conference on Advance Computing, Communication and Devices’2017 (NCACCD 17) 16th–17th March, 2017

## International Seminar / Conference

**Srabani Kundu**,” Ir regular Shaped Event Boundary Estimation in Wireless Sensor Networks” , 4th International Conference on Advanced Computing, Networking, and Informatics, 22-24 September, 2016.

**Ipsita Saha**, Amit Kundu, Sadhan K Ghosh,” A Study to Establish an Energy Efficient Sustainable Business Model in Virtual ERP” published in 6<sup>th</sup> International Conference on Solid Waste Management (ICONSWM2016) at Jadavpur University, organized jointly by JU, IIT KGP & IISC Bangalore. 23-27 November, 2016.

**Ipsita Saha**, Amit Kundu, Sadhan Kumar Ghosh “Novel Approach for Laptop & Cell Phone Waste Management using Cloud Based Data Storage Systems”- The Thirty-Second International Conference on Solid Waste Technology and Management, Philadelphia, PA, USA, March 19-22, 2017.

**Ipsita Saha**, Amit Kundu Sadhan K Ghosh “A Study to Establish an Energy Efficient Sustainable Business Model in Virtual ERP”, 6th International Conference on Solid Waste Management, 6th IconSWM 2016, Jadavpur University, Kolkata, India, November 24 - 26, 2016.

# DEPARTMENT: CSE

**Ipsita Saha** , Amit Kundu, Sadhan Kumar Ghosh “A Study of Cloud Based Solution for Supply Chain Management” - Second International Conference on Internet of Things, Data and Cloud Computing, IC-C'17, Cambridge city, Churchill College. University of Cambridge, United Kingdom. 22-23 March 2017.

**Ipsita Saha**, Amit Kundu, Sadhan Kumar Ghosh “Role of Big Data Analysis and Internet of Things in Implementation of Smart City”-International Conference on Modelling, Computing and Technological Innovations on February 9-11, 2017, UIT, Burdwan, West Bengal.

## International Journal

**Ipsita Saha** , Joy Dewanjee,” A web based nucleotide sequencing tool using BLAST algorithm” published in International Journal of Biotech Trends and Technology (IJBT) – volume 18 Issue 1, ISSN:2249-0183, September - October 2016.

**Sourish Mitra, Bidyutmla Saha, Nirupam Saha, Rafiqul Islam, Pallabi Das,** " Modified Implementation of Different Architectural Designing Issues in WSN Protocol"published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1147-1150,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

**Bidyutmla Saha, Sourish Mitra, Srabani Kundu, Nirupam Saha, Sayani Chandra, Debraj Roy, Pallabi Das, Sinthia Roy,**" Ar duino -UNO Operated Hall-effect Sensor Based Magnetic Field Strength Measurement System",published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp- 1377-1380,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

**Moloy Dhar,Kunal Singh,Pritam Roy,Jui Saha,**" Spontaneous Fan Speed Control System Using Arduino",published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1560-1563,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

**Sayani Chandra, Debraj Roy,Rafiqul Islam, Shirsankar Basu, Sinthia Roy,**”A Novel Approach of Internet of Things: Microcontroller Based Air Pollution Monitoring System Published in Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162) Impact Factor:4.14 Volume 4 Issue 4 , April-2017.

**Sayani Chandra, Sourish Mitra, Debraj Roy, Trishna Arora,**“An Approach towards Arduino Based Automated Plant Irrigation System using Soil Moisture Sensor” published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017.

**Sourish Mitra, Sayani Chandra, Ipsita Saha, Jasbir Singh,**“An Innovative Smart Health Care System by using Internet of Things” published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017.

# DEPARTMENT: IT

## National Seminar / Conference

**Sudeep Ghosh**; Recovery of 3D IC using redundant TSV; 24th West Bengal State Science & Technology Congress, 2017.

Raja Dastidar, **Baisakhi Das**; Inspiration of vertical transportation on multilayered architecture of lab-on-chip: a hybrid approach; 24<sup>th</sup> West Bengal State Science & Technology Congress, 2017.

## International Seminar / Conference

**Baisakhi Das**, Supreeti Kamilya, Biplab K Sikdar; “Design of CA Based Scheme for Evenhanded Data Migration in CMPs”; 6th Int'l Symp. on Embedded computing & system Design (ISED), December 15-17, 2016; IIT Patna.

**Sudeep Ghosh**, Mandira Banik, Prebond “TSV Based 3D-SIC Testing” International Conference on Current Research in Engineering Science and Technology (ICCREST-2017). ISSN-2321 – 3361 Mar 13-14-6, 2016. Trichy, Chennai.

**Tridib Chakraborty**, “Visual Cryptography for Information Reconstruction” International Conference on Current Research in Engineering Science and Technology (ICCREST-2017). ISSN-2321 – 3361 Mar 13-14-6, 2016. Trichy, Chennai.

## International Journal

**Trishita Ghosh**, Sumit Kumar Singh; Congestion Control in VANET with Time Synchronization Approach and by Controlling Number of Messages. International Journal of Emerging Technologies in Engineering Research (IJETER). Volume 4, Issue 7, Page 13-16, impact factor 4.225, July 2016.

**Sudeep Ghosh**, Mandira Banik, **Tridib Chakraborty** “Recovery of TSV Based 3D IC” International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845, UGC enlisted. (Registrar for published in JUNE.2017).

Mandira Banik, **Sudeep Ghosh** “Modelling of Air traffic control using Petri net.” International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845, UGC enlisted. (Registrar for published in JUNE.2017).

# DEPARTMENT: IT

## International Journal

**Mandira Banik, Sudeep Ghosh** “Approximate Computing: Error Tolerant Adder.” International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE.2017.

**Tridib Chakraborty, Mizan Chowdhury**, “Image Segmentation in Optical Character Recognition” International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE, 2017.

**Mizan Chowdhury, Tridib Chakraborty** “Text Recognition Using Image Processing” International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845, UGC enlisted. (Registrar for published in JUNE, 2017.

**Tridib Chakraborty,Adr ish Goswami, Aliva Ghosh, Jeevan Krishna** “Monitoring Suspicious Discussions on Social Media Case Study” International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE.2017.

# DEPARTMENT: FT

## National Seminar / Conference

Ushnil Dutta, Sanjana Chakraborti and **Dr. Subhajt Ray**, “Development of Value Enriched Carrot Fortified Chips for Better Security of Nutrition” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

Soumyadeep Pal, Anusree Modak, **Dr. Kakali Bandyopadhyay and Dr. Chaitali Chakraborty** “Food Waste: Mine of Polyphenols” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

**Dr. Anju Paul**, Mainak Ghosh and Manasi Roy. “Preservation Techniques & Product Development of Locally Available Mushrooms” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

Neelanjana Misra, Gargi Sharma, **Dr. Chaitali Chakraborty and Dr. Kakali Bandyopadhyay** “Herbal Bread: A Loaf For Good Health” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup>Sept.,2016..

Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee. **Dr. Chaitali Chakraborty and Dr. Kakali Bandyopadhyay** “Utilization of Green Banana Peel in Enriching the Antioxidant Potential in Chips” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept., 2016.

# DEPARTMENT: FT

Shramana Bhattacharya, Sreemoyee Moitra, Sayani Adhikary and **Dr. Chaitali Chakraborty** “Development of Probiotic Lassi Supplemented with Aloe Barbadensis Miller Juice and Effect” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

Sruti Mandal, Saikat Gorai and **Dr. Subhajit Ray**. “Development and Evaluation of Quality Characteristics of Nutritious Osmodried Fruits for enhanced Nutritional Security” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

Gargi Sharma and **Chaitali Chakraborty**, “Development and quality analysis of pudina fortified herbal custard”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Sreemoyee Moitra, Sayani Adhikary and **Chaitali Chakraborty**, “Effect of incorporating Aloe-vera in Sandesh”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Suparna Mukherjee, Srijanee Biswas and **Chaitali Chakraborty**, “Rheological analysis of apple yoghurt”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Urmi Sarkar, Shreosi Das and **Chaitali Chakraborty**, “Rheological analysis of coffee flavored Yoghurt”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Pinaki Ranjan Ray, Soma Maji and **Chaitali Chakraborty**, “In vitro evaluation of phenolic content and antioxidant activity of herbal *lassi*”, National Symposium on Oxidative stress in health and disease, organized by Department of Biochemistry & Biophysics, University of Kalyani, West Bengal, India, held on 30-31<sup>st</sup> March, 2017.

Neha Jaiswal, Shalini Rastogi and **Kakali Bandyopadhyay**, “Genetically Modified Foods: Safety, Risk, and Public Concerns”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

# DEPARTMENT: FT

Prostuti Chakravorty, Debarati Bhattacharyya and **Kakali Bandyopadhyay**, “Studies on Extraction of Protein from De-oiled Meals”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Anusree Modak and **Kakali Bandyopadhyay**, “Studies on Extraction of Polyphenol from Cucumber and Potato Peels”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Paromita Roychowdhury, Aayushi Bhomia and **Kakali Bandyopadhyay**, “Study of Utilization of Ultrasound in Milk and Milk Product”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Bigroha Hajra, Soumyadeb Bhattacharyya &**Dr. Anju Paul** “Modern Trends on Utilization of Food Technology” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017

Sreyasi Deb &**Dr. Anju Paul** “An Enzymatic Approach For Debittering of Citrous Fruit Juice” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Mahua Sarkar, Saurav Bhattacharjee &**Dr. Anju Paul**“ New Horizons in Agricultural Biotechnology” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Ansu Chaudhary, Pinki Karmakar &**Dr. Anju Paul** “ Review: Genetically Modified Foods: Blessing or Curse” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Manasi Roy, Mainak Ghosh &**Dr. Anju Paul** “Development of Mushroom Product: A Meat Substitute”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Abhishek Kundu, Poulomi Mukherjee &**Dr. Subhajit Ray**, “Thermosonication a Suitable Approach of Alternative Processing”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

# DEPARTMENT: FT

Prajesh Nandy, Subhapriya Samanta & **Dr. Subhajit Ray**, “Microalgae as a Source of Natural Antioxidant”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Rupsha Roychowdhury, Modhulika Dutta & **Dr. Subhajit Ray**, “Algae is a source of Biofuel”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

Sanjana Chakraborty, Ushnil Dutta & **Dr. Subhajit Ray**, “Development and Analysis of a Nutrient Enriched Tropical Fruit Concoction”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

## National Journal

**Amit Kumar Barman, Subhajit Ray, Kakali Bandyopadhyay, Anju Paul and Chaitali Chakraborty**, “Evaluation of Nutritional Characteristics and Microbiological Quality of Soymilk and Peanut Powder Blend” Accepted, Journal of InterAcademia, Vol.20, Issue Jul/Aug (2016), pp-246-250, ISSN:0971-9016, (NAAS Rating: 3.96)

**Dr. Subhajit Ray** and Dr. Kanta Bokaria, “Characterizing Soil Induced Variation of Arsenic Uptake in Rice” Journal of Agricultural Engineering and Food Technology”, Vol.3, Issue 3, July-September, (2016), pp.172-177, p-ISSN:2350-0085, e-ISSN:2350-0263

Priyanka Dutta, **Chaitali Chakraborty, Kakali Bandyopadhyay, Anju Paul and Subhajit Ray**, “Development and characterization of curd fortified by pineapple juice” Indian journal of Dairy Science, Vol.69, Issue 5, Sep/Oct (2016), pp- 524-528, ISSN:0019-5146 (NAAS Rating: 4.19)

**Chaitali Chakraborty, Amit Kumar Barman, Kakali Bandyopadhyay**, “Survey of Unorganized Sector Milk in and around Kolkata”, *J. Interacademia*, 20(4) 541-545 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

# DEPARTMENT: FT

**Kakali Bandyopadhyay, Chaitali Chakraborty** and Smita Singha Roy, “Effect of Heat Treatment on the Rheological Properties of Pulse Based Cabbage Soup”, *J. Interacademia*, 20(4) 515-519 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

**Chaitali Chakraborty, Kakali Bandyopadhyay**, Shubham Mukherjee and Bornini Banerjee, Development and Quality Analysis of Milk Based Eggless Pudding, *J. Interacademia*, 20(4) 520-525 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

Kailash Barman, **Chaitali Chakraborty** and **Subhajit Ray**, “Studies on the process development for the production of locally available pineapple products”, *Journal of Interacademia*, 20(4), 508-514, (2016). ISSN: 0971-9016. (NAAS Rating: 3.96).

**Chaitali Chakraborty**, Bornini Banerjee, Soumyadeep Pal, Subham Mukherjee, Lara Maity, Soumyadeb Bhattacharyya, Bigraho Hajra and Subhopriya Samanta, “Food safety challenges towards safe, healthy and nutritious street foods”, *Journal of Interacademia*, 20(4), 499-507, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).

**Chaitali Chakraborty**, Prastuti Chakravorty, Riya Dasgupta, Suravi Chakravorty, Rupsa Roychowdhury and Debjit Ghosh, “Sweet Potato: Processing and Marketing: A Review”, *Journal of Interacademia*, 20(4), 562-568, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).

**Kakali Bandyopadhyay** Sampurnanagar and **Chaitali Chakraborty**, “Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm (*Phoenix dactylifera* L.)”. *Indian Journal of Dairy Science*, **70**(1):116-118, (2017). ISSN:0019-5146, (NAAS Rating: 5.26)

**Chaitali Chakraborty**, **Kakali Bandyopadhyay** and Shair ee Ganguly, “Studies on Extraction and Characterization of Biocolour from Beet Root (*Beta vulgaris*)”, *Advances in Life Sciences*, 5(21):10150-10152, (2016) ISSN 2278-3849 (NAAS Rating: 3.56).

# DEPARTMENT: FT

## International Seminar / Conference

Anusree Modak, Neelanjana Misra, **Chaitali Chakraborty and Kakali Bandyopadhyay**, “Herbs Fortified Whey Drink”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Smita Singha Roy, Soumyadeep Pal, **Kakali Bandyopadhyay and Chaitali Chakraborty** (2016). “Effect of Heat Treatment on the Functional Characteristics of Pulse based Tomato Soup”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Soumyadeep Pal, Gargi Sharma, **Kakali Bandyopadhyay and Chaitali Chakraborty** (2016). “Preparation and Characterization of Salt Extracted Sesame (*Sesamum indicum* L.) Protein Isolate”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Bornini Banerjee, Subham Mukherjee, Arunima Mukherjee, **Chaitali Chakraborty and Kakali Bandyopadhyay** (2016). “Utilization of Banana Peel as a Functional Ingredient in Chips Preparation”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Sayani Adhikary, Sanchita Mukherjee, **Chaitali Chakraborty and Kakali Bandyopadhyay** (2016). “Quality Analysis of Raw and Packaged Milk of Kolkata”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Saikat Gorai, Sruti Mondal, and **Subhajit Ray**, “Development and Utilization of Carrot Powder in Value Added Biscuit Production”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

# DEPARTMENT: FT

Ushni Dutta , Sanjana Chakraborty and **Subhajt Ray**, “Effect of Drying of Cucumber at Different Temperatures on Drying Characteristics and Physicochemical Properties”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Subhajt Singha , Chandrima Sarkar, Sukriti Dutta and **Subhajt Ray**, “Potentiality of Polymers in Food Packaging”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Chandrani Dutta and **Dr. Anju Paul**, “Comprehensive Study on the Antioxidants and Proximate Analysis of Fruits Vegetables”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Sukanya Kar, Dipsikha Mukherjee, Sreemoyee Moitra and **Dr. Anju Paul**, “Development of Value Added Biscuits Fortified by Whey Protein”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

Manasi Roy, Mainak Ghosh and **Dr. Anju Paul**, “The Essence of Life – Aloe vera( Preparation of Pickle from Aloe vera)” **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Dr. Anju Paul, Dr. Subhajt Ray** and Bigroha Hajra, “Analysis and Study on the Anti-oxidant of Citrus Fruits” , **International Seminar on Contemporary Developments in Nutritional Research** Organised by IQAC and Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College, held on 5<sup>th</sup> and 6<sup>th</sup> January 2017.

# DEPARTMENT: FT

## International Journal

**Chaitali Chakraborty**, Shr amana Bhattacharyya, Sr eemoyee Moitra and **Kakali Bandyopadhyay** (2017). Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Review, **International Journal of Engineering Research and Science & Technology**, 6(1): 114-125, ISSN 2319 – 5991, **Impact Factor**:1.09.

**Chaitali Chakraborty**, Arunima Mukherjee, Bornini Banerjee, Subham Mukherjee and **Kakali Bandyopadhyay** (2017). Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development: A Review, **International Journal of Engineering Research and Science & Technology**, 6(1):1-12, ISSN 2319 – 5991, **Impact Factor**:1.09.

**Chaitali Chakraborty**, Gargi Shar ma and Neelanjana Misra, (2017). Herbs fortified food - Key of Polyphenols: a Review, **International Journal of Engineering Research and Science & Technology**, 6(1): 18-29, ISSN 2319 – 5991, **Impact Factor**:1.09.

**Chaitali Chakraborty**, Riya Dasgupta and Debjit Ghosh, (2017). Climatic conditions required and factors affecting the production of sweet potato, **International Journal of Agricultural Science and Research**, 7(1): 459-464, ISSN-2250-0057 (NAAS Rating: 4.13), **Impact Factor**: 4.8136.

**Kanta Bokaria** and **Subhajit Ray**, Development of papaya peel flour based cookies and evaluation of its quality, **Journal of Multidisciplinary Engineering Science and Technology (JMEST)** ISSN: 2458-9403 (online) Vol. 3 Issue 12, December – 2016, pp.6393-6396

**Chaitali Chakraborty** and **Kakali Bandyopadhyay**, “Textural Analysis of Spongy Indian Milk Dessert t (Rasogolla) Fortified with Potato Powder”, **International Journal of Current Microbiology and Applied Sciences**, 6(4): 2414-2420, (2017).ISSN: 2319-7706 (NAAS Rating: 5.38)

**Shairee Ganguly**, **Chaitali Chakraborty** and **Kakali Bandyopadhyay**, “Development and Characterization of Biocolour (*Beta vulgaris*) Enriched Low Calorie Lassi (Yogurt Based Beverage)”, **International Journal of Current Microbiology and Applied Sciences**, 6 (4): 2265-2270, (2017) ISSN: 2319-7706 (NAAS Rating: 5.38)

**Chaitali Chakraborty**, **Kakali Bandyopadhyay**, Bornini Banerjee and Shubham Mukherjee, “Banana peel wastes: potential source of antioxidant in banana chips”, **International Journal of Agricultural Science and Research (IJASR)**, 7(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; **Impact Factor (JCC)**: 4.8136; (NAAS Rating: 4.13); IBI Factor: 3.2

# DEPARTMENT: ECE

## International Seminar / Conference

**Dr.Sunipa Roy**,Rashmi Sinha,Shambhavi,Seuli Maity," TEM Analysis of Zero Silicon Micro Hot-plate for Gas Sensing Application" published in 3rd International Conference on Microelectronics, Circuits and Systems Micro-2016,9-10th July, 2016

**Dipasri Saha**,Kumar Ankit,Manish Kumar,Manoj Kumar Rawani,Binod Kumar," A Mobile Operated ROBOT using DTMF Decoder & Motor Driver",3rd International Conference on Microelectronics, Circuits and Systems Micro-2016,9-10th July, 2016.

**Suparna Biswas**, Aditi Bhowmik, Arka Chakraborty, Monalisa Debnath, Arnab Chatterjee, " Face Recognition using Spatial and Temporal features",3rd International Conference on Microelectronics, Circuits and Systems, Micro-2016,9-10th July, 2016

**Arun Kumar Mondal and Soma Manna**," Optimal Path Selection for AODV Routing Protocol in MANET",IEEE and CRC Press with Taylor & Francis Group sponsored International Conference ACCET 2016 Accepted,21ST and 22nd OCTOBER 2016

**Suparna Biswas**," An Efficient Face Recognition Method via Compressive Sensing" ,1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016),Accepted on 19-20 October,2016

**Dipasri Saha**," Implementation of MPPT Method using BBO Algorithm for PV Generation System" ,1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016),Accepted on 19-20 October,2016

**Avali Ghosh, Sisir K. Das, Annapurna Das**," Analysis of Radiation Coupling from Via in Multilayer Printed Circuit Board Traces",14th International Conference on Electromagnetic Interference & Compatibility (INCEMIC 2016) and Workshop at Bengaluru, India accepted ,8th to 9th December 2016

**Soma Manna, Arun Kumar Mondal and Piyu Sarker**,"Study of security threats in ad-hoc network and their mitigation",International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016) 4-6 October, 2016

**Antara Ghosal,Anurima Majumdar , Sisir k Das,Annapurna Das**," Design of Ground plane of a slotted microstrip Patch antenna for EMI rejection",14th International Conference on Electromagnetic Interference & Compatibility (INCEMIC 2016) and Workshop at Bengaluru, India accepted,8th to 9th December 2016.

# DEPARTMENT: ECE

**Avali Ghosh, Sisir Kumar Das, Annapurna Das,"Analysis of Crosstalk in High Frequency Printed Circuit Boards"**, accepted on International Conference on Electromagnetics in Advanced Applications IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications, 2017, published date- September 11-15, 2017.

Suparna Biswas,"**PCA based Face Recognition in Curvelet Compressive Measurements**", published in First International Conference on Computational Intelligence, Communications, and Business Analytics, March 24- 25, 2017.

Aditi Sengupta et.al. Effects of temperature on Microstrip circuits for extreme climates (ICTPACT-2017), 6th - 8th April, 2017 Bharat Institute of Higher Education, Bangalore, India.

## International Journal

Sunipa Roy et.al."**Development of microcontroller based integrated gas sensor system for detecting combustible gases**",published in IET Circuit Device and Systems (IET). Communicated.Peer reviewed archival journal Thomson Reuter indexed. IF: 0.583

**SuparnaBiswas, "A Compressive Sensing Based Robust Face Recognition Method"**, Advances in Industrial Engineering and Management, American Scientific Publishers, Vol 6, pp. 103- 106, 2017,(**THOMSON REUTERS**) DOI: 10.7508/aiem.2017.02.008.

# DEPARTMENT: EE

## International Seminar / Conference

**Mr. Arindam Roy, Dr. Prabal Deb, Ms. Madhumita Chakraborty.** "Alcohol Sensor Based Cost Effective Simple Car Ignition Controller", 2016 first International conference on Advancement of Computer Communication and Electrical Technology (ACCET, 2016), Sept, 2016

## International Journal

**Mr. Susovan Dutta,** "Cost Effective Multi-Purpose Solar Charger Unit for Rural Development, International Journal of Computer Sciences and Engineering August 2016

**Mr. Susovan Dutta,** "Magnetically actuated transport of ferrofluid droplets over micro-coil array on a digital microfluidic platform" Elsevier, Sensors and Actuators B: Chemical, Volume 236, Pages 1-1132 (29 November 2016).

**Dr. J K Das** and Debnil Chakraborty, "Effective Management of Transformer Inrush during Restoration of a Typical Industrial Power System" published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (An ISO 3297: 2007 Certified Organization) Vol. 6, Issue 2, February 2017 Copyright to IJAREEIE DOI:10.15662/IJAREEIE.2017.0602016 801

**Suman Ghosh**, Soumik Roy, "Designing a Dual-Axis Solar Tracking System for increasing efficiency of a Solar Panel", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 12, December 2016.

Bikram Dutta, **Suman Ghosh**, "Mathematical MATLAB Model and Performance Analysis of Asynchronous Machine", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization), Vol. 6, Issue 4, April 2017.

**Mr. Arindam Roy, Mr. Sisir Mazumder** "Design of micro/mini-wind-turbine (MWT) based Uninterrupted Power Supply (UPS) for domestic applications". International Journal of Innovations in Engineering and Technology (IJET), ISSN: 2319-1058, February, 2017.

# DEPARTMENT: AEIE

## International Conference

**Jayita Datta, Madhuchhanda Mitra, “Automated Feature Extraction of ECG Signal by Position-Index Searching Method”, IEEE–International Conference on Signal Processing, Communication, Power and Embedded System (SCOPE-2016) *Technically Co-sponsored by IEEE Bhubaneswar Section on 03-05, October, 2016***

**Paramita Banerjee, Ratna Ghosh and Bhaswati Goswami, “ Impedance model of a piezoelectric sensor derived from experimental responses”, 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20<sup>th</sup> October, 2016.**

**Bapita Roy, Paramita Banerjee, Shubham Debnath, Satarupa Chakraborty and Anirban Chakraborty, “Design of a Microcontroller Based Potentiometric Level Sensor”, 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20<sup>th</sup> October, 2016.**

**Jayita Datta\*, Sukanta Saha, Sayantan Chowdhury and Aditya Acharya, “Development of An ECG Signal Acquisition Module”, 2nd International Conference on “2017 Devices for Integrated Circuit (DevIC)”, organized by IEEE KGEC Student Branch Chapter in association with Department of ECE, KGEC, technically co-sponsored by IEEE EDS Kolkata Chapter during March 23-24, 2017.**

## International Journal

**Paramita Banerjee, Abhijit Chakraborty, Ratna Ghosh and Bhaswati Goswami, “Predicting the dental implant stability based on the antiresonance phase of a piezo based impedance sensor”, Journal of International Clinical Dental Research Organisation, Accepted and will be published in January 2017 edition, *ISSN: Print - 2231-0754 , Online - 2231-5357, Indexed with index Copernicus, Indian Science Abstracts.***

**Bapita Roy, Paramita Banerjee, Subham Debnath, Satarupa Chakraborty, and Anirban Chakraborty, " Microcontroller Based Automated Water Level Sensing" ,Journal of Advances in Industrial Engineering and Management has been communicated, *ISSN: 2222-7059 (Print); EISSN: 2222-7067, 2016***

**Paramita Banerjee, Ratna Ghosh and Bhaswati Goswami, "Series Impedance Model of a Piezoelectric Sensor based on Antiresonance Frequency (ARF) analysis", Journal of Advances in Industrial Engineering and Management, has been communicated, *ISSN: 2222-7059 (Print); 2016, EISSN-2222-7067***

# DEPARTMENT: ASHU

## National Seminar / Conference

**Sreyasree Basu,** "Preparation and evaluation of application of the Novel Calcium cross linked Carboxymethylguargum Ion Exchange Resin for Heavy Metal Removal in Surface Water", 1st Regional Science and Technology Congress, 2016 by DST, Govt. of WB in collaboration with NITTR. November, 2016

**Mainak Debnath and Sreyasree Basu,** "Mononuclear Vanadium(V) complex with Phenol based Ligands: Synthesis, Characterization and Catalytic activities", 1st Regional Science and Technology Congress, 2016 by DST, Govt. of WB in collaboration with NITTR. November, 2016

**Piyali Adak and Shyamal Kumar Chattopadhyay,** "Catecholase activity, DNA binding and cyto toxicity studies of a water soluble binuclear Cu(II) complex of pyridoxal Schiff base." 1st Regional Science and Technology Congress, 2016 by DST, Govt. of WB in collaboration with NITTR. November, 2016

**Piyali Adak,** "Two pseudohalide-bridged Cu(II) complexes bearing the anthracene moiety: Synthesis, crystal structures and catecholase-like activity". Presented a paper at the Research Scholars Colloquium (RSC 2016) during August 23-24, 2016 at IEST, Shibpur.

**Rajarshi Chakraborty and Ratan Mandal,** "A New Approach of Solar Thermal Steam Generator Design" ATE Paper No.40, Presented Paper at National Conference on Advances in Thermal Engineering during September 23-24, 2016, Jadavpur University, Kolkata, India

**Dr. Soma Mukherjee** "Effect of electric field on SHG Signal of Chromophore doped Polymer Thin Film", Two days National Conference on Advances in Interdisciplinary Sciences 2017 organized by Science Forum, Bhairab Ganguly College held during 27-28<sup>th</sup> Jan 2017

## National Journal

**Dr. Soma Mukherjee:** "Study of temperature dependent dc conductivity of  $Fe_{1-x}Co_xO_y$  film grown on MgO (100)", Proceedings of National Conference on Advancement in Frontier Physics : From 20<sup>th</sup> Century to the present NCAFP- 2016, p-23-26.

# DEPARTMENT: ASHU

## International Seminar / Conference

**Dr. Soma Mukherjee** “SHG signal of poled nonlinear optical DR1-doped PMMA film”, Accepted for 104th Indian Science Congress organized by SRM University, Chennai, to be held during 3-7th Jan 2017

**Dr. Sucharita Bhattacharyya,** "Solid Waste Management (SWM) : Case Study at an Educational Campus and in the neighbourhood of Panihati , North 24 Pargana, West Bengal, India" Abstract accepted, 6th Icon SWM 2016, November 24-26, 2016 at Jadavpur University, Kolkata, India, to be held during November 24-26, 2016

**Sreyasree Basu and Mainak Debnath,** “Structural Vagary of the Guar Gum: Owing to the Water Crystallization Inhibition Property”. Awarded as the best paper presentation (Id: IC2A2SE-2016-07-CCE-07) in track Chemistry & Chemical Engg. in International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE-2016) from Oct 4-6, 2016, organized by Narula Institute of Technology, Agarpara, Kolkata.

**Anup Kumar Thander, Dr. Sucharita Bhattacharyya,** "Optimization of Structure Parameters of a Rib wave guide using Optical Modal Index analysis through Higher Order Compact FDM-IEEE UPCON 2016,(IEEE Conference), Accepted 2016 Nov.

**Mr. Anup Kumar Thander & Dr. Sucharita Bhattacharyya,** "Newton-Krylov Subspace Method to study Structure Parameter Optimization in Rib Wave Guide Communication", International Conference on Industry Interactive Innovation in Science, Engineering and Technology (I3SET2016) published in October 2016 in Springer Publication.

**Mr. Anup Kumar Thander & Dr. Sucharita Bhattacharyya,** "Study of Optical Modal Index for semiconductor rib wave guides using Higher Order Compact Finite Difference Method", Optik - International Journal for Light and Electron Optics- An Elsevier Journal

**Rajarshi Chakraborty and Ratan Mandal** “Design and Optimization of Conceptual Solar Thermal Steam Generator” Abstract Accepted for International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017) Science City Kolkata India Organised By: The Neotia University, West Bengal, India to be held during 17-19, April 2017 .

**Piyali Adak,** “Tetra and dinuclear Zinc(II) complexes with thiolato bridges: Synthesis, X-ray Crystal Structures, Spectroscopic Characterization, ATP binding, DNA binding and Phosphatase like activity”. Presented a paper at 5th Symposium on Advanced Biological Inorganic Chemistry (SABIC 2017) held in Kolkata during January 7-11, 2017, organized by IACS and TIFR.

# DEPARTMENT: ASHU

## International Journal

**Chinmay Ghosh**, "A note on relative  $(p, q)$  th proximate order of entire functions" Journal of Mathematics Research; Vol. 8, No. 5; Oct. (2016), pp. 1-11. ISSN 1916-9795(Print) ISSN 1916-9809 (Online)

**Chinmay Ghosh**, "Generalized Relative Order-Dependent Growths of Composite Entire Functions" (accepted for publication at Communications of the Korean Mathematical Society) (SCOPUS indexed)

**Chinmay Ghosh**, "On Relative  $(p; q)$ -th Order Based Growth Measure of Entire Functions", Filomat 30:7 Aug. (2016), pp. 1723-1735. ISSN 0354-5180 (Print) ISSN 2406-0933 (Online). DOI 10.2298/FIL1607723D.(SCI indexed) (impact factor 0.638)

**Anup Kumar Thander, Dr. Sucharita Bhattacharyya**, "Study of optical modal index for semiconductor rib waveguides using higher order compact finite difference method", Optik, (an Elsevier Journal) , Vol. 131, pp.775-784, February 2017

**Piyali Adak**, "Two pseudohalide-bridged Cu(II) complexes bearing the anthracene moiety: Synthesis, crystal structures and catecholase-like activity". Polyhedron, Vol. 119, Aug. (2016), pp. 39-48, ISSN: 0277-5387 (impact factor: 2.108).

**Piyali Adak**, "Catecholase activity, DNA binding and cytotoxicity studies of a Cu(II) complex of a pyridoxal schiff base: synthesis, X-ray crystal structure, spectroscopic, electrochemical and theoretical studies". RSC Adv., Vol 6, Aug. (2016), pp. 86851-86861, ISSN: 2046-2069 (impact factor: 3.289).

**Piyali Adak**, "Vanadium(V) complexes of some bidentate hydrazone ligands and their bromoperoxidase activity." Polyhedron, In Press, Accepted Manuscript, <http://dx.doi.org/10.1016/j.poly.2017.01.054>, ISSN: 0277-5387 (impact factor: 2.108)

**Piyali Adak**, "Ruthenium(II) complexes of thiosemicarbazones: Synthesis, X-ray crystal structures, spectroscopy, electrochemistry, DFT studies and fluoride sensing properties." Inorganica Chimica Acta, Vol. 459, Jan. (2017), pp. 1-14, ISSN: 0020-1693 (impact factor: 1.918).

## STUDENT PUBLICATION

<b>Aca- demic Year</b>	<b>Dep t</b>	<b>Na- tional Jour- nal</b>	<b>National Semi- nar/ Conference</b>	<b>Inter- natio nal Jour- nal</b>	<b>Interna- tional Seminar/ Confer- ence</b>	<b>Total</b>
<b>2016- 17</b>	<b>FT</b>	<b>8</b>	<b>24</b>	<b>5</b>	<b>12</b>	<b>49</b>
	<b>AEI</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>7</b>
	<b>IT</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>
	<b>CSE</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>6</b>
	<b>EE</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>
	<b>EC</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>3</b>
			<b>8</b>	<b>29</b>	<b>17</b>	<b>14</b>

# DEPT: CSE

## International Journal

**Joy Dewanjee,**” A web based nucleotide sequencing tool using BLAST algorithm” published in International Journal of Biotech Trends and Technology (IJBTT) – volume 18 Issue 1, ISSN:2249-0183, September - October 2016.

**Kunal Singh,Pritam Roy,Jui Saha,**”Spontaneous Fan Speed Control System Using Arduino” ,published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1560-1563,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

**Trishna Arora,**”An Approach towards Ar duino Based Automated Plant Ir r igation System using Soil Moisture Sensor” published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017

**Jasbir Singh,**”An Innovative Smart Health Care System by using Internet of Things” published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017

## National Seminar/Conference

**Angika Roy,Anirban Roy, Indranil Choudhury, Aradhya Kundu, Kaustav Dutta,**” Implementing Smart City- An Approach Towards Big Data Analysis and Internet of Things”,paper accepted in 1<sup>st</sup> Regional Science and Technology Congress, 2016,NITTTR, Presidency Division West Bengal, 13<sup>th</sup> -14<sup>th</sup> November,2016, NITTTR, Kolkata.

**Kunal Singh,**” Implementation of Hand and Voice Biometrics Based on GMM” paper accepted in 1<sup>st</sup> Regional Science and Technology Congress, 2016,NITTTR, Presidency Division West Bengal, 13<sup>th</sup> -14<sup>th</sup> November,2016, NITTTR, Kolkata

# DEPT: FT

## National Seminar / Conference

**Ushnil Dutta, Sanjana Chakraborti**, “Development of Value Enriched Carrot Fortified Chips for Better Security of Nutrition” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

**Soumyadeep Pal, Anusree Modak**, “Food Waste: Mine of Polyphenols” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

**Mainak Ghosh and Manasi Roy**. “Preservation Techniques & Product Development of Locally Available Mushrooms” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

**Neelanjana Misra, Gargi Sharma**, “Herbal Bread: A Loaf For Good Health” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016..

**Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee**. “Utilization of Green Banana Peel in Enriching the Antioxidant Potential in Chips” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016..

**Shramana Bhattacharya, Sreemoyee Moitra, Sayani Adhikary** “Development of Probiotic Lassi Supplemented with Aloe Barbadensis Miller Juice and Effect” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal .held on 15-16<sup>th</sup> Sept.,2016.

# DEPT: FT

**Sruti Mandal, Saikat Gorai**, Development and Evaluation of Quality Characteristics of Nutritious Osmodried Fruits for enhanced Nutritional Security” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal . held on 15-16<sup>th</sup> Sept.,2016.

**Neha Jaiswal and Shalini Rastogi**, “Genetically Modified Foods: Safety”, Risk, and Public Concerns,8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.

**Prostuti Chakravorty and Debarati Bhattacharyya**, “Studies on Extraction of Protein from De-oiled Meals”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.

**Anusree Modak**, “Studies on Extraction of Polyphenol from Cucumber and Potato Peels”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.

**Paromita Roychowdhury and Aayushi Bhomia**, “Study of Utilization of Ultrasound in Milk and Milk Product”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.

**Bigroha Hajra and Soumyadeb Bhattacharyya**, “Modern Trends on Utilization of Food Technology”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017

**Sreyasi Deb**, “An Enzymatic Approach For Debittering of Citrous Fruit Juice” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Mahua Sarkar and Saurav Bhattacharjee**, “ New Horizons in Agricultural Biotechnology” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

# DEPT: FT

**Ansu Chaudhary and Pinki Karmakar**, “ Review: Genetically Modified Foods: Blessing or Curse” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunank Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Manasi Roy and Mainak Ghosh**, “Development of Mushroom Product: A Meat Substitute” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunank Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Gargi Sharma**, “Development and quality analysis of pudina fortified herbal custard”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunank Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Sreemoyee Moitra and Sayani Adhikary**, “Effect of incorporating Aloe-vera in Sandesh”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunank Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Suparna Mukherjee and Srijanee Biswas**, “Rheological analysis of apple yoghurt”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunank Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Urmi Sarkar and Shreosi Das**, “Rheological analysis of coffee flavored Yoghurt”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunank Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Abhishek Kundu, Poulomi Mukherjee**, “Thermosonication a Suitable Approach of Alternative Processing”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunank Institute of Technology, held on 19<sup>th</sup> March, 2017.

# DEPT: FT

**Prajesh Nandy, Subhapiya Samanta**, “Microalgae as a Source of Natural Antioxidant”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Rupsha Roychowdhury, Madhulika Dutta**, “Algae is a source of Biofuel”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

**Sanjana Chakraborty, Ushnil Dutta**, “Development and Analysis of a Nutrient Enriched Tropical Fruit Concoction”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

## National Journal

**Priyanka Dutta**, “Development and characterization of curd fortified by pineapple juice” Indian journal of Dairy Science, Vol.69, Issue 5, Sep/Oct (2016), pp- 524-528, ISSN:0019-5146 (NAAS Rating: 4.19)

**Sampurna Guhathakurta**, “Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm (Phoenix dactylifera L.). Indian Journal Dairy Science (Accepted), Volume 70, No. 1, 2017 (January-February 2017) (Accepted), ISSN:0019-5146, NAAS Rating: 4.19

**Smita Singha Roy**, Effect of Heat Treatment on the Rheological Properties of Pulse Based Cabbage Soup, *J. Interacademia*, 20(4) 515-519 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

**Shubham Mukherjee and Bornini Banerjee**, “Development and Quality Analysis of Milk Based Eggless Pudding”, *J. Interacademia*, 20(4) 520-525 (2016), ISSN: 0971-9016, NAAS Rating: 3.96.

**Kailash Barman**, “Studies on the process development for the production of locally available pineapple products”, *Journal of Interacademia*, 20(4), 508-514, ISSN: 0971-9016. (NAAS Rating: 3.96), 2016.

**Bornini Banerjee, Soumyadeep Pal, Subham Mukherjee, Lara Maity, Soumyadeb Bhattacharyya, Bigraho Hajra and Subhapiya Samanta**, Food safety challenges towards safe, healthy and nutritious street foods, *Journal of Interacademia*, 20(4), 499-507, ISSN: 0971-9016. (NAAS Rating: 3.96). 2016.

**Prastuti Chakravorty, Riya Dasgupta, Suravi Chakravorty, Rupsa Roychowdhury and Debjit Ghosh**, “Sweet Potato: Processing and Marketing: A Review”, *Journal of Interacademia*, 20(4), 562-568, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).

**Sampurna Guhathakurta**, “Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm”(Phoenix dactylifera L.). Indian Journal of Dairy Science, 70(1):116-118, ISSN:0019-5146, (NAAS Rating: 5.26), 2017.

# DEPT: FT

## International Seminar / Conference

**Anusree Modak and Neelanjana Misra** , “Herbs Fortified Whey Drink”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Smita Singha Roy and Soumyadeep Pal**, “Effect of Heat Treatment on the Functional Characteristics of Pulse based Tomato Soup”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Soumyadeep Pal and Gargi Sharma**, “Preparation and Characterization of Salt Extracted Sesame (*Sesamum indicum* L.) Protein Isolate” , International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Bornini Banerjee, Subham Mukherjee and Arunima Mukherjee** , “Utilization of Banana Peel as a Functional Ingredient in Chips Preparation”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Sayani Adhikary and Sanchita Mukherjee**, “Quality Analysis of Raw and Packaged Milk of Kolkata, International Conference on Emerging Technologies in Agricultural and Food Engineering”, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Saikat Gorai and Sruti Mondal** , “Development and Utilization of Carrot Powder in Value Added Biscuit Production”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Ushni Dutta and Sanjana Chakraborty**, “Effect of Drying of Cucumber at Different Temperatures on Drying Characteristics and Physicochemical Properties”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Subhojit Singha , Chandrima Sarkar and Sukriti Dutta**, “Potentiality of Polymers in Food Packaging”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

# DEPT: FT

**Chandrani Dutta**, “Comprehensive Study on the Antioxidants and Proximate Analysis of Fruits Vegetables”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Sukanya Kar, Dipsikha Mukherjee and Sreemoyee Moitra**, “Development of Value Added Biscuits Fortified by Whey Protein”, International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Manasi Roy and Mainak Ghosh**, “The Essence of Life – Aloe vera( Preparation of Pickle from Aloe vera)” International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

**Bigroha Hajra**, “Analysis and Study on the Anti-oxidant of Citrus Fruits”, International Seminar on Contemporary Developments in Nutritional Research Organised by IQAC and Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College, held on 5<sup>th</sup> and 6<sup>th</sup> January 2017.

## Interational Journal

**Shramana Bhattacharyya and Sreemoyee Moitra** (2017). Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Review, International Journal of Engineering Research and Science & Technology, 6(1): 114-125, ISSN 2319 – 5991, IF:1.09.

**Arunima Mukherjee, Bornini Banerjee and Subham Mukherjee**, “Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development”: A Review, International Journal of Engineering Research and Science & Technology, 6(1):1-12, ISSN 2319 – 5991, IF:1.09.

**Gargi Sharma and Neelanjana Misra**, “Herbs fortified food - Key of Polyphenols”: a Review, International Journal of Engineering Research and Science & Technology, 6(1): 18-29, ISSN 2319 – 5991, 2017, IF:1.09.

**Riya Dasgupta, Debjit Ghosh** (2017). Climatic conditions required and factors affecting the production of sweet potato, International Journal of Agricultural Science and Research, 7(1): 459-464, ISSN-2250-0057 (NAAS Rating: 4.13), IF: 4.8136.

**Bornini Banerjee and Shubham Mukherjee**, “Banana peel wastes: potential source of antioxidant in banana chips”, International Journal of Agricultural Science and Research (IJASR), 7(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; Impact Factor (JCC): 4.8136; (NAAS Rating: 4.13); 2017 IBI Factor: 3.2.

# DEPT: AEIE

## International Conference

**Mr. Souvik Das, Ms. Reparana Saha** “PLC based Modern Monoculture Farming System”, 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), jointly organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20<sup>th</sup> October, 2016.

**Shovan Kar**, “Microcontroller based dual axis solar tracking system”, 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), jointly organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20<sup>th</sup> October, 2016.

## International Journal

**Mr. Souvik Das, Ms. Reparana Saha**, "PLC based Modern Monoculture Farming System" ,Journal of Advances in Industrial Engineering and Management has been communicated,ISSN:2222-7059 (Print);EISSN:2222-7067, 2016.

**Shovan Kar**, " Microcontroller based dual axis solar tracking system" , Journal of Advances in Industrial Engineering and Management has been communicated,ISSN:2222-7059(Print); EISSN:2222-7067,2016.

## National Conference

**Sudeshna Banerjee, Sintu Kumar Barnwal**, “An Automated Method of temperature And Humidity Measurement for Calibration Laboratory”, in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017,organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017.

**Arpan Kumar Lahiri, Debasis Awasti**, “Air Swipe Controlled home-made speaker”, in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017,organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017.

**Anirban Chakraborty**, “Colour Sensor Based Ambient Light with Manual Control”, in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017,organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017.

# DEPT: IT

## International Journal

**Sumit Kumar Singh**, "Congestion Control in VANET with Time Synchronization Approach and by Controlling Number of Messages". International Journal of Emerging Technologies in Engineering Research (IJETER). Volume 4, Issue 7, Page 13-16, impact factor 4.225, July 2016.

# DEPT: EE

## International Journal

**Soumik Roy**, "Designing a Dual-Axis Solar Tracking System for increasing efficiency of a Solar Panel", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 12, December 2016.

**Krishnendu Jana, Foyjuddin Khan**, "Cost Effective Multi-Purpose Solar Charger Unit for Rural Development", published in International Journal of Computer Sciences and Engineering, August 2016.

# DEPT: ECE

## International Conference

**Saikat Sarkar, Satyaki Nan, Priyankar Ghosh, Moinak Adhya, Sandip Kumar Singh, Avali Ghosh**, "Bidirectional Visitor Counter with security system and Automated Room Light Controller", 8th All India Inter Engineering College Academic Meet - 2017 And Innovative Model Competition For A Sustainable Society, 19th MARCH, 2017.

**A.Bhaumik. A.Das, A. Yadav, A.Shaw, A.K. Misra, Sunipa Roy**, "Non conventional energy sources using piezoelectric crystal for wearable electronics", IEEE Sponsored International conference IEM-TECH, Science City, Kolkata 28-29 April, 2017.

**P.Chowdhury, S. Mahato, S. Das, Sunipa Roy**, "TEM analysis of microheater using SiO<sub>2</sub>/Si<sub>3</sub>N<sub>4</sub> composite membrane for long term gas sensor applications", IEEE Sponsored International conference IEM-TECH, Science City, Kolkata. 28-29 April, 2017.



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Sl. No.	Name of teacher who attended the program	Title of the program	Duration (from-to) (DD-MM-YYYY)
1	DR. KAKALI BANDYOPADHYAY	INNOVATIONS ADOPTED IN RECENT TIMES BY CHEMICAL TECHNOLOGY-BASED INDUSTRIES	10-09-2016
2	MR. SUSOVAN DUTTA	5 DAYS FDP ON DATA MINING & DATA WAREHOUSE	26.12.2016 - 30.12.2016
3	MS RIKTA MAJUMDER	5 DAYS FDP ON DATA MINING & DATA WAREHOUSE	26.12.2016 - 30.12.2016
4	MS. MADHUMITA CHAKRABORTY	5 DAYS FDP ON DATA MINING & DATA WAREHOUSE	26.12.2016 - 30.12.2016
5	ANUP KUMAR THANDER	5 DAYS FDP ON DATA MINING & DATA WAREHOUSE	26.12.2016 - 30.12.2016
6	DR. MAINAK DEBNATH	ORIENTATION TRAINING PROGRAMME FOR NSS PROGRAMME OFFICERS	11-12-2016 - 17-12-2016
7	Mr. SAURAV BASU	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
8	Mr. RUPESH CHAKRABORTY	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
9	Miss PRATITI ROY	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
10	Mr. SOURAV DAS	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
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13	Miss PALLABI DAS	5 DAYS FDP ON APPLICATION OF A.I IN AUTOMATION INDUSTRY	15.06.2017 - 19.06.2017
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21	Mr. ANKUR MONDAL	5 DAYS FDP ON APPLICATION OF A.I IN AUTOMATION INDUSTRY	15.06.2017 - 19.06.2017

22	Mr. SANDIP TIGGA	5 DAYS FDP ON GREEN COMPUTING	26.06.2017 - 30.06.2017
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59	Mr. AMIT KUMAR BARMAN	5 DAYS FDP ON THERMAL AND NON-THERMAL FOOD PROCESSING	05.06.2017 - 09.06.2017
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64	Ms. BAISAKHI DAS	FUNDAMENTAL CONCEPTS AND TEACHING METHODOLOGIES (FCTM- 2016, PHASE II)	14-03-2016 - 15-04-2016

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69	Mrs. KARABI KONAR	FUNDAMENTAL CONCEPTS AND TEACHING METHODOLOGIES (FCTM– 2016, PHASE II)	14-03-2016 - 15-04-2016
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90	Mr. DEBANJAN BANERJEE	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
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92	RAFIQUL ISLAM	5 DAYS FDP ON ADVANCED COMPUTING TECHNOLOGY	26.06.2017 - 30.06.2017
93	DR. SUPARNA BISWAS	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
94	SURAJIT BASAK	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
95	SOMA BORAL	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
96	TRISHITA GHOSH	5 DAYS FDP ON DATA MINING & DATA WAREHOUSE	26.12.2016 - 30.12.2016
97	DR. PARAMITA BANERJEE	5 DAYS FDP ON INSTRUMENTATION ENGINEERING & DEVELOPMENT IN PROCESS AUTOMATION	18.01.2017 - 22.01.2017
98	MR. SHYAMAL KUMAR ROY	RECENT TRENDS IN ELECTRICAL ENGINEERING: A RESEARCH PERSPECTIVE	15.06.2017 - 19.06.2017
99	MR. SANJOY BISWAS	5 DAYS FDP ON APPLICATION OF A.I IN AUTOMATION INDUSTRY	15.06.2017 - 19.06.2017
100	SINCHAN MAZUMDER	5 DAYS SDP ON NETWORK HANDLING	19.12.2016 - 23.12.2016
101	PALASRI DHAR	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
102	AVALI BANERJEE	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
103	ANURIMA MAJUMDAR	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
104	SWAGATA BHATTACHARYA	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
105	SAYAN ROY CHAUDHURI	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
106	ADITI SENGUPTA	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
107	ANTARA GHOSAL	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
108	KOUSHIK PAL	5 DAYS FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	08.06.2017 - 13.06.2017
109	DR. SUNIPA ROY	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017
110	DR. ARUN KUMAR MONDAL	5 DAYS FDP ON MODELLING AND SIMULATION TOOLS IN ELECTRONICS AND COMMUNICATION ENGINEERING	08.01.2017 - 12.01.2017

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