

# TECHNIQUE POLYTECHNIC INSTITUTE

## ELECTRONICS & TELECOMMUNICATION

### DEPARTMENT

VOLUME: 03

#### Departmental Vision

To achieve excellence in technical education in Electronics and Telecommunication Engineering developing globally acceptable technical skilled-personals and entrepreneur, capable of accepting new challenges in ever changing global scenario and offering technological service to industry and society at-large.

#### Departmental Mission

1. To develop competent technological professionals, through quality education and training in Electronics and Telecommunication Engineering, so as to contribute in the advancement in Electronics and Telecommunication technology
2. To create technologist to accept new challenges in technology and emerge successfully in global competitive scenario
3. To impart value based education which results in services and entrepreneurial initiatives towards socio-economic development and innovation of the society
4. To inculcate the awareness & thirst for life-long learning through interaction with outside world regarding the contemporary issues, technological trends and futuristic approach

#### Departmental Pos

- a) Ability to demonstrate and express fundamental knowledge of mathematics, basic science and engineering.
- b) Ability to apply knowledge of electrical and electronics to solve problems of Electronics and Telecommunication Engineering.
- c) Ability to identify, formulate and solve unfamiliar technical problems to industry reaching substantiated conclusions.
- d) Ability to design and conduct experiments, analyze and interpret data and able to apply the knowledge for measurement and monitoring of electronic equipments.
- e) Ability to design circuits and its components or process as per needs and desired specifications.
- f) Ability to function effectively within multi disciplinary teams and understand the fundamental precepts of effective project managements.
- g) Ability to use the techniques, skills and modern engineering tools necessary for engineering practices with appropriate considerations for public-health and safety, societal, cultural and environmental constraints.
- h) Ability to understand professional, ethical and moral responsibility.
- i) Ability to communicate effectively.
- j) Ability to understand impact of Electronics and Telecommunication Engineering solutions on the society and also will be aware of modern day issues.



The department started Diploma course in Electronics & Tele-communication Engineering from the very first day of establishment of the college. Since the inception of the department, it is continuously contributing noble and innovative ideas in Electronics & Tele-communication Engineering to keep pace with the latest technological developments. The department regularly invited guest lecturers and organized seminars by experts from industries in various fields of Electronics & Tele-communication Engineering. The students have actively participated in Science exhibition and Model presentation event. We have successfully arranged vocational training for all students. Our students got placed in reputed companies like Tech Mahindra and HCL Info systems etc.

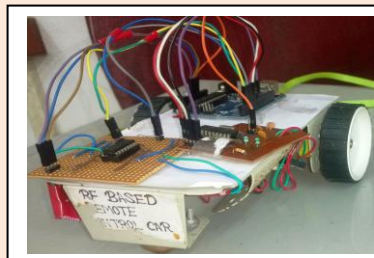
Madhurima Santra  
Departmental In-charge

### Departmental Seminar:

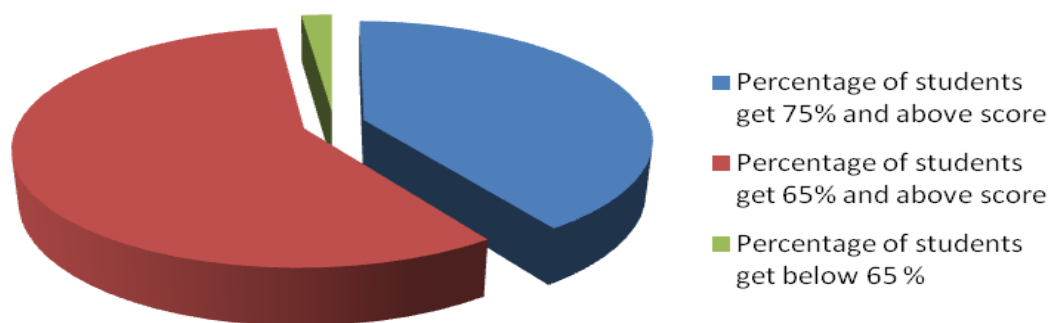
DATE	TIME	SEMINAR TOPIC	PRESENTED BY
19/03/2016	12:30pm	Image Processing	<b>Prof.B.K.Dutta</b> (Professor, Computer Science & Engineering,BBIT)
07/03/2016	10:00am	Basics of Nano Technology	<b>Smt. Soumitra Ghosh</b> (Assistant Professor, Electronics & Communication Engineering, SKFGI)
04/07/2015	12:00	Entrepreneurship Development	<b>A.K.Kabiraj</b> (Ex Assistant Director MSME. DI, Govt. Of India)

### Departmental Final year Projects:

- CELL PHONE BASED LAND ROVER
- DIGITAL CLOCK
- KEYPAD SECURITY SYSTEM
- REAL TIME EVM
- VOICE BASED AQUASTIC SYSTEM USING HIGH Q BAND PASS FILTER
- TRAFFIC LIGHT CONTROLLER
- DIGITAL VISITOR COUNTER
- CELLPHONE DETECTOR DEVICE
- RF BASED CHAIR FOR HANDICAPPED
- A UWB ANTENNA WITH FACTRAL RESONATOR EXHIBITING BAND NOTCH CHARACTERISTICS



## percentage of student



### Result analysis of final year student

#### Inter college Science & Model Exhibitions , September 2015:

Sl.No	Stream	Name of the Student	Name of the Model	Position
1	DETCE-2 <sup>nd</sup> year	JEET SANYAL	DISTANCE MEASUREMENT & OBSTACLE DETECTION	1 <sup>ST</sup>
		NAUSAD MONDAL		
	DETCE-3 <sup>RD</sup> YEAR	SANJOY SHAW	ADVANCE WIRELESS POWER TRANSFER	SATISFACTORY
		SUBHA RAM		
3	DETCE-1 <sup>ST</sup> YEAR	KAUSIK PALIT	ELECTRIC FENCH & AUTOMATIC LIGHT CONTROL.	SATISFACTORY
4	DETCE-3 <sup>RD</sup> YEAR	ABHISHEK PRAMANICK	STREET LIGHT WITH MOTION SENSOR TO SAVE THE ENERGY	SATISFACTORY
		ARINDAM MARDANYA		
5	DETCE-2 <sup>ND</sup> YEAR	SOUMALYA HAZRA	MULTIGATE SECURITY SYSTEM	SATISFACTORY
		SURAJIT ROY		
6	DETCE-2 <sup>ND</sup> YEAR	SAYANTAN NANDY	SMART HEAD LIGHT	SATISFACTORY
		MAUSAM DAS		
		SOUMYAJIT PAL		
7	DETCE-3 <sup>RD</sup> YEAR	ARKADEV KUNDU	1. AUTOMATIC LPG DETECTOR. 2. AUTOMATIC METAL DETECTOR	SATISFACTORY
		RIMAN DAS		
		SHARMITA SHEE		
8	DETCE-2 <sup>ND</sup> YEAR	ROHIT SINGH	LOW COST DOOR ACKNOWLEDGEMENT SYSTEM	SATISFACTORY
		ROHIT ROY		
9	DETCE-3 <sup>RD</sup> YEAR	AMRITA DAS	CLOCK TIMER CONTROLLED HOME APPLIANCES	SATISFACTORY
		BIDISHA CHOUDHURY		
		SARMISTHA DAS		

#### Outer college Science & Technology Exhibitions, January 2016:

Sl.No	Stream	Name of the Student	Name of the Model	Position	VENUE
1	DETCE-2 <sup>nd</sup> year	JEET SANYAL	DISTANCE MEASUREMENT & OBSTACLE DETECTION	1 <sup>ST</sup>	HOOGHLY INSTITUTE OF TECHNOLOGY
		NAUSAD MONDAL			
2	DETCE-3 <sup>RD</sup> year	SANJAY SHAW	GAS DETECTOR & FIRE ALARM SENSOR	1 <sup>ST</sup>	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS
		ARKADEV KUNDU			

## Sports 2016:

### Football tournament

- ❖ Runners up-----DETCE(2<sup>nd</sup> year)
- ❖ Best Scorer-----Saikat Halder(DETCE 2<sup>nd</sup> year)

### Badminton Tournament

- ❖ Winner-----Nilakshi Roy &  
Ritika Kumari(DETCE 1<sup>st</sup> year)

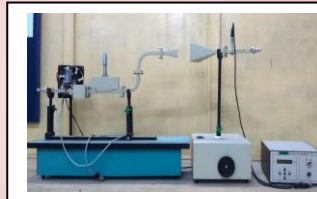


Sl No	Event	Position	Name of the student	year
1	100 m race for boys	1 <sup>st</sup>	Ranjit Kundu	3 <sup>rd</sup>
2	Long Jump	3 <sup>rd</sup>	Ranjit Kundu	3 <sup>rd</sup>
3	Short put	2 <sup>nd</sup>	Punit kr ojha	1 <sup>st</sup>
4	100 m race for girls	1 <sup>st</sup>	Ritika Kumari	1 <sup>st</sup>
		2 <sup>nd</sup>	Sanchita Saha	2 <sup>nd</sup>
		3 <sup>rd</sup>	Sumana Kundu	2 <sup>nd</sup>
5	100 m spoon race	3 <sup>rd</sup>	Sumana Kundu	2 <sup>nd</sup>
6	Bombart	3 <sup>rd</sup>	Sanchita Saha	2 <sup>nd</sup>
7	Shortput	2 <sup>nd</sup>	Ritika Kumari	1 <sup>st</sup>
		3 <sup>rd</sup>	Sumana Kundu	2 <sup>nd</sup>

## New equipment details:

### Sl No Description

1. Mother Board of CTV Training Kit
2. 8051 universal development trainer kit
3. Display Module Compatible with NVIS 5001
4. Characteristic of MOSFET, FET & UJT
5. Microwave Test Bench
6. Klystron mounts with tube
7. Characteristics of DIAC, TRIAC & SCR
8. Frequency Counter Trainer
9. Siemens PLC
10. Universal Development Platform
11. Antenna Trainer kit



*Failure will never overtake me if my determination to succeed is strong enough.*

----- A.P. J. Abdul Kalam