

NEXTECH - 2017

6th - 10th March, 2017

10th National Level Technical Festival

ORGANISED BY **ST. XAVIER'S**

TECHNICAL INSTITUTE

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(AUTONOMOUS GOVT. AIDED MINORITY INSTITUTE)



A **JESUIT** INSTITUTE

Cash Prizes
RS. 46,500/-

Call for entries from Engineering Diploma students

Project Exhibition: Electronics/Communication/ Bio-medical/Instrumentation/ Electrical & IT/ Computer: Monday, 6th March, 2017

Poster Competition: Theme: "Swachh Bharat"/ "Communication Skills"/ "Professional Practices": Monday, 6th March, 2017

This is for **FIRST YEAR DIPLOMA students** and participants have to draw/ colour/ sketch/ paint/ prepare/ present their poster on "half imperial" size drawing sheets.

Technical Paper Presentation: Tuesday, 7th March, 2017 - There will be 2 categories as below:

Electronics/Communication: 1) Advanced Encoding & Decoding Technique 2) Remote Sensing, Networking 3) 3G, 4G 4) Mobile Navigation 5) WI Max 6) Cognitive Radio 7) Antenna & Microwave Engineering 8) Robotics application in Electronics 9) Electronic Control Systems in Agriculture

IT/ Computer: 1) Zigbee 2) I.P.T.V. 3) Mobile Computing 4) Wireless Networking Techniques 5) Network Securities 6) Artificial Intelligence 7) Cloud Computing 8) IoT & Large Databases

Circuit building and implementation on breadboard: Wednesday, 8th March, 2017

Individual participants have to build specified circuits based on Op-amps and Timers on breadboard and implement the same in the stipulated time. Components, circuit diagrams, breadboards and equipment for testing will be provided.

Circuit Simulation: Wednesday, 8th March, 2017

Verification of the performance of the given designed circuit through simulation using the "MultiSim" circuit simulation and design software, which has to be successfully completed within the stipulated time.

PCB Design: Wednesday, 8th March, 2017

The PCB layout has to be prepared using "Eagle" software for a given working circuit, and tested for performance after soldering the components.

ESSAY Competition: Theme: "Swachh Bharat" Thursday, 9th March, 2017

This is for **FIRST YEAR DIPLOMA students only** and individual participants must write and complete the essay within the stipulated time.

EXTEMPORE QUIZ Competition: Thursday, 9th March, 2017

This is for **FIRST YEAR DIPLOMA students only**. Further details will be provided extempore at the time of the event!

DEBATE Competition: Thursday, 9th March, 2017

This is for **FIRST YEAR DIPLOMA students only**. Further details will be provided at the time of the event!

LAN Gaming (Counter-Strike 1.6 & NFS Most Wanted): Friday, 10th March, 2017

Each group consisting of 4 members will play against another group to reach the finals and become the champion of Counter Strike/ NFS. Note that these two games are considered as separate events and separate registration forms have to filled with separate registration fee, in case student/s is/ are participating in both.

Debugging programs in 'C' language: Friday, 10th March, 2017

Individual participants should successfully debug the given simple programs in 'C' language and execute the same within the stipulated time.

RULES AND REGULATIONS

Synopsis Formatting:

Paper size A4, Heading Font Size 16pts, Sub Heading Font Size 14pts, Text Font Size 12pts, Line Spacing 1.5, Arial Font, Margins: Left & Right 1.25', Top and Bottom 1".

A) For Project

- * The Project Synopsis should be 3 - 5 pages.
- * Submit list of required supporting equipments one week before exhibition dates.
- * Come equipped with your own required software and driver softwares.
- * Maximum 4 Participants / Project Group.

B) For TPP

- * Maximum two authors per paper for Technical Paper Presentation.
- * The paper synopsis should be 3-6 pages.
- * 10 minutes will be allotted per paper.
- * Power Point Presentation backup must be accompanied by each author.

Important Dates:

- 1) Last date: Project / Paper Synopsis (Hard Copy)/ Registration for LAN Gaming/ Circuit Building/, all submissions with registration - **10th February, 2017**
- 2) Intimation and acknowledgement for selected project/ technical paper and concerning LAN gaming and Circuit Building through email - **23rd February, 2017**

Fees details and Registration: Soft copy should be emailed to nextech2017@xaviertech.com, on or before submission date, **stating the event name** in which you are participating in the "**subject**" field of the email. One hard copy of all documents along with fees should be submitted. Demand Draft of Rs. 300/- per event, per student (including Registration, Lunch & Tea) should be drawn in favour of ST. XAVIER'S TECHNICAL INSTITUTE, payable at MUMBAI.

CO-ORDINATORS: Project: Mrs. Janani Natarajan (7710062922), Poster Competition: Mr. S.N. Jirapure (9930447284), Technical Paper Presentation: Mr. S.R. Borkar (9987228279), Circuit Building: Mr. Stevenson D'Souza (9923091307), Circuit Simulation: Mr. R.V. Gheware (7710062941), PCB Design: Mr. M. Khobragade (9049077851), Essay Competition: Ms. Chevron De Souza (9011676343), EXTEMPORE Quiz: Ms. Depti Mistry (9892832107), DEBATE & Debugging Competitions: Mr. M.M. Munde (7738099227), LAN Gaming: Mrs. Sanchita Datta (7738899616) & Mrs. Surbhi Gaoshinde (9323169951), Accommodation: Mr. Raviraj Ghadage - 9920950077, Mrs. Helen Cerejo - 98333118899

PRIZES: Project: First: Rs. 7000/-, Second: Rs. 5000/-, Poster Presentation: First: Rs. 2500/-, Second: Rs. 1500/-, T.P.P: First: Rs. 3000/- (x2) = Rs.6000/-, Second: Rs. 2000/- (x2) = Rs.4000/-, Circuit Building: Rs. 2500/-, Circuit Simulation: Rs. 2500/-, PCB Design: Rs. 2500/-, Essay Competition: Rs. 2500/-, EXTEMPORE Quiz: Rs. 2000/-, DEBATE: Rs. 2000/-, Debugging: Rs. 2500/-, LAN Gaming NFS: Rs. 2000/-, LAN Gaming CS: Rs. 2000/-

ACCOMMODATION: Accommodation will be arranged and charged at Rs. 150/- per day/ overnight, to be paid in cash to the accommodation co-ordinators

PATRONS

Fr. Vernon D'Cunha, S.J., Provincial, Mumbai Jesuits
Fr. Francis de Melo, S.J., Director, XTECH AND XIE

CHAIRPERSON - Dr. S. B. Ghungrad, Principal
CONVENOR - Dr. Vijay R. Rathod, H.O.D.
CO-CONVENOR - Mr. Anil C. Gurav

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