Xavier Institute of Engineering

NEWS LETTER

JESUIT INSTITUTES

IHS

Department Of Applied Sciences And Humanities Newsletter Sem I 2019-20

About Department

The Department of Applied Sciences and Humanities has a team of experienced faculty members who work hand-in hand to nourish the analytical knowledge and skills of the students. The department offers regular lectures, lab sessions, remedial lectures, peer learning, extra-curricular activities, project exhibitions, competitions and many more for the overall development and growth of the students. Continuous assessment of the students through tests, quiz, assignments and prelim exams helps students to know their strengths and weakness. The teachers mentor students all throughout the year, providing a platform for their intellectual and professional growth.

From the Editorial Team

The First Year Engineering of Xavier Institute of Technology is exhilarated to present you all its first newsletter. This newsletter seeks to capture the priceless moments in the very first year of the students' engineering journey. It celebrates the milestones achieved by the First Year Engineering students. This annual issue covers the academic, co-curricular and extra-curricular activities, achievements in semester examinations and research-related undertakings by the students, staff and faculty of the First Year Engineering.

This institute, always abuzz with various events, workshops, seminars and programmes, provides a plethora of opportunities to the students from the head-start of their academic career. This newsletter aims to communicate the legacy that the preceding First Year Engineering students have left behind to inspire the newly admitted students for pursuing success and joy with a spirit to explore new domains of learning.

Essentially, we assure you that a lot can certainly happen during the First Year of Engineering, and we wish all the students to achieve much, much more in the rest of their years spent at Xavier Institute of Engineering.

Department Mission Vission

FE NEWS

Our Vision

To nurture the Joy of Excellence in a world of High Technology

Our Mission

To strive to match global standards in Technical Education by Interaction with Industry, Continuous Staff training and Development of quality of life

Message From The Director

FE NEWS

Fr. Dr. John Rose S.J.

What I miss very much on campus these days is, naturally, the presence of the students, so very enthusiastic, not only when playing games or kidding around on the corridors or yapping in the canteen but, also, and perhaps more so, in the classroom when attentive to the professors or engrossed in whatever they are reading. Brilliance of the mind and innate genius in any field has no scope for development unless one is in an atmosphere of liveliness, something that is always obvious on campus and always encouraged by the Staff and Administration. To teach, guide, challenge, make intellectually curious, and bring students to their full potential, is the driving hope of each on the faculty, and that hope is bound to be fulfilled by these students who fill the campus. It is to be taken for granted that XIE's budding engineers, once they leave its campus, qualified in their profession, to face the world and its challenges, will do so with confidence. They have developed already critical thinking, learning through hands-on-experience, communication skills, rationally justifiable moral values, and great self-respect. With or without being aware of it, their sense of responsibility demonstrated on campus is bound to have positive effects in their immediate environs and on the nation at large. To me it is the collective effort of the faculty, students, and staff, all very creative and dedicated and caring in whatever they do, that has made XIE, over so many years, to be ranked among the topmost engineering institutions in the country. In these difficult lockdown times, distancing and isolation can only be overcome online, and what is remarkable is that through this medium various serious conferences, workshops, training programmes are being conducted. In this quarter alone, besides on the regular curriculum, there was focus on Machine Learning, Internet of Things, Data Science, and Artificial Intelligence in the senior classes. Their minds may appear to be "up there" but the students' feet are solidly on the ground. Through their daily family lives and neighbourhood encounters they take it for granted that they owe more to the world than the world owes them. With social consciousness deeply imbedded in them, there is no need to worry about what will happen after the lockdown period. But this I must say for now: it is green and peaceful on campus these days but its atmosphere required to be charged by the students' enthusiasm.

Message From The Principal

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Dr. Y.D. Venkatesh

Dear students of First Year Engineering,

Being established in the year 2005, Xavier Institute of Engineering (XIE) runs 4 year degree courses leading to the Bachelor of Engineering (B.E.) in the three streams of Engineering, namely, Computer Engineering, Electronics and Telecommunication Engineering and Information Technology. All the three courses are recognized by AICTE (All India Council for Technical Education) and approved by the University of Mumbai. XIE is affiliated to the University of Mumbai. The B.E. degree is conferred by the University of Mumbai to a student of XIE after the completion of all the stipulated courses and a project work carried out satisfactorily, following the scheme of syllabi of UOM.

The vision statement of the institute is "To nurture the Joy of Excellence in a world of high technology" and the Mission statement is "To strive to match global standards in Technical Education by interaction with industry, continuous staff training and development of quality of life."

The institute has been successfully accredited by NAAC (The National Assessment and Accreditation Council) which is a move to assess the quality of education offered at XIE. XIE thrives to keep the standards up-to-date in terms of academic and administrative along with co curricular as well as sports activities. XIE believes that every student can be sculpted into a jewel and be moulded in the right direction while infusing the qualities of all-round development.

The new initiative of bringing out our very own FE Departmental newsletter is a milestone that marks the growth, which tries to unfold the imaginations of students and collaborators, and is established to give life to one's thoughts and aspirations. It unleashes on a wide spectrum of achievements, awards, events and recognition in various fields of academics affiliated to its students as well as the faculty members.

Innovation and creativity are fundamental to all academic disciplines and educational activities. To build up and inculcate these creative habits and to stay appraised with the current requirements and to meet the demands of industry, the institute is conducting workshops on various subjects such as coding, programming, IOT, Machine Learning, spoken tutorials, Python, Robotics, Digital Image Processing and Artificial Intelligence to name a few.

I wish all the students of First Year Engineering to flourish in their academics and leave behind a paramount of imprint so that the upcoming first year students can follow their foot prints with amazing motivation and awe.

Message From The AS&H., HoD

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DR. MADHAVI PARIMI

The Department of Applied Sciences and Humanities is where students from the curriculum of sciences in their twelfth standard are introduced to concepts of Engineering, through subjects like, Engineering Mechanics, Basic Electrical Engineering, Structured Programming & Applications and Engineering Drawing. The department believes in laying a strong foundation in Applied Sciences and Engineering Subjects too. Motivated teachers with a wealth of experience provide the first year students with the required knowledge and skills for their training.

Jesuit education is directed to the whole human person. An individual cannot realize his/her full human potential if he/she neglects others. To be truly human, one must be in solidarity with the other, sharing hopes and fears and caring for the other's well-being. Hence, Jesuit education is not only directed to ensure excellence in a discipline but also to forming persons who will be brothers or sisters to a neighbor in need. XIE's department of humanities strives to communicate values which stress the correct understanding of a human being before God and the neighbor. Well-equipped and spacious laboratories in Physics, Chemistry, Workshop, BEE, AUTOCAD and Computer Centre help students to put theory to practice. Prospective students who join XIE will be groomed to become competent and successful engineers as well as responsible citizens who are a credit to the country.

Department Events

❖ *The Orientation Programme of First Year Engineering*

The Orientation Programme of First Year Engineering was organised on August 7, 2019. One hundred and thirteen students along with their parent attended the programme. Fr. Dr. John Rose, Y D Venkatesh, Fr. Errol D'Lima, the Heads of Departments, Dr. Suprava Patnaik, Prof.   Chhaya Narvekar and Prof. Sushma Khanvilkar, the faculty and non-teaching staff members of First Year Engineering were present. The programme included talks by the Director, the Principal, the Ombudsman and the heads of the departments. A student-parent group activity was conducted by the Director followed by the distribution of lunch boxes and introducing the newly admitted students to mentoring processes.

Department events

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❖ Guest Lecture on Stress Management

The guest lecture on stress management was organised by Dr. Bhagrashree Chari on 01/10/2019 for the first year students with a objective to make students aware of different types of stress and how to deal with them. The speakers Ms. Madhavi Gandhi & Ms. Akshara More from Clinical Psychologists from "Parisar Asha" discussed various forms of stress with the students where the students actively participated in the discussion and showed immense enthusiasm. The speaker made the students to perform stress buster activities which everyone thoroughly enjoyed.

Co-Curricular Activities

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❖ *Peer Learning*

The students who enrolled themselves in the First Year Engineering for academic year 2019-20 at XIE, started visiting the institute regularly to adapt themselves to a new environment and new subjects, before the academic term starts. Special sessions were being conducted for Mathematics I, BEE, Engineering Mechanics and other subjects by the faculty of First Year Engineering under the supervision of Prof. Prajakta Subhedar. This facility for the students has been promoted by the Director,Fr. Dr. John Rose,S.J.

Details of the resource persons:

The sole objective of these sessions were to build bases for the challenging subjects for new students entering in First Year. These sessions were conducted by previous year's toppers in the respective subjects. Subject wise Teaching Assistant's details are given below.

Subject	Teaching Assistant
Engineering Mathematics-I	Mr. Vikas Gupta
Basic Electrical Electronics	Mr.Himanshu Gharat
Engineering Mechanics	Mr. Pallav Savla

These Sessions helped First Year Engineering students in following aspects:

1. Building base for the challenging subjects.

2.Clearing the doubts about the topic.

3. Smart/shortcuts to solve the tricky questions.

4. Preparation for End semester exam.

5. These sessions helped XIE and student Rahul Anandraj to score 10 pointer, which is record breaking of XIE history.

Academic Achievers

Congratulations To
FE (Sem I) TOPPERS 2019-2020

Anandraj Rahul
SGPA : 10

Shetty Pragathi
SGPA : 9.78

Yennuwar Siddharth
SGPA : 9.72

Applied Sciences and Humanities Dept.

Academic Achievers

FE NEWS

❖ *Subject-wise toppers*
   Academic Year
   2019 - 20 SEM I

Congratulations To

Anandraj Rahul
(F.E.- B)
Received a prize of Rs.50000/
and a certificate for scoring 10 pointers
and for topping in three subjects
(Applied Physics , Engineering Mechanics
and Basic Electrical Engineering)

Congratulations To
FE Topper SEM-I in
ENGG. MATHEMATICS -I

WAICHOL ADITYASUNILRAO

Congratulations To
FE Topper SEM-I in
BASIC ELECTRICAL ENGINEERING

Anandraj Rahul Karunan

Congratulations To
FE Topper SEM-I in
Engg. Chemistry - I

Pagaria Chirag Lalit
Mishra Shivam Vinod
Dsouza Roland Roshan

Congratulations To
FE Topper SEM-I in
Engg. Physics - I

Anandraj Rahul Karunan
Gupta Sonam Babulal

Congratulations To
FE Topper SEM-I in
EngineeringMechanics

Anandraj Rahul Karunan
Sushree Nadiminty Sunita

Publication details of faculty

Courses attended by faculties

Name of Faculty who attended	Title of Workshop / Seminar / STTP / Conference	Date	Organizing Body
Ansari Zeba Tasneem	AICTE -ISTE Approved Induction Programme :Teaching Pedagogies for Engineering Education	24/06/2019 to 28/06/2019	Fr Agnel Vashi
Dr. Bhagyashree Chari	Orientation programme on the Revised syllabus 2019 of Engineering Chemistry for FE	18/09/2019 to 18/09/2019	Terna Engineering College
	Five days STTP on "Teaching Pedagogies for Engineering Education" (AICTE- ISTE approved program)	24/06/2019 to 28/06/2019	Department of Electrical Engineering, Fr. C. Rodrigues Institute of Technology
Prajakta Subhedar	One day workshop on Radar Tracker and introduction to wireless communication for First Year engineering students	31/07/2019 to 31/07/2019	EXTC dept of XIE.
Shilpa Dingankar	TEQIP-III KITE course on Linear Algebra and its applications to Data Analysis and Control	18/11/2019 to 23/11/2019	IIT, MUMBAI
Dr. Madhavi Parimi	FDP on Student Induction Program	18/06/2019 to 24/02/2019	AICTE
	FDP on Student Induction Program	06/06/2019 to 08/06/2019	AICTE
	FDP on BigData HADOOP	01/07/2019 to 05/07/2019	Eduxlabs and XIE
Name of Faculty who delivered lectures	Title of Workshop / Seminar / STTP / Conference	Date	Organizing Body
Dr Ashutosh Valavade	Introduction to Arduino	20th July 2019	SE students of XIE Science Club

Students Activities

Name of student	Details	Certificate	Offered by	Date
Ishika shah	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Uttam Pandey	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Divya Jangam	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Odrin Rodrigues	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Arya Sarda	In top 10% of 6700 students	Merit	Next Genius Scholarship Program	2018-19
Stephen Wallace	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Stephen Wallace	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19
Stephen Wallace	Web development Workshop	Participation	CSX, XIE	14,15 Sep2020
Rigved Harmalkar	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19
Rigved Harmalkar	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Mitali Haldankar	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19

Students Activities

Name of student	Details	Certificate	Offered by	Date
Nitin Gupta	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19
Nitin Gupta	Happy Feet 5K Marathon, Run for Fit India	Participation	Ramnarain Ruia Autonomous College, Mumbai	22-Sep-19
Anurag Yadav	Ethical Hacking Workshop	Participation	CSX, XIE	28-29 Sep 2019
Anurag Yadav	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19
Leron Patel	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19
Leron Patel	Web development Workshop	Participation	CSX, XIE	14,15 Sep2020
Divya Kulkarni	Artificial Intelligence workshop	Participation	Kyrion Technologies Pvt Ltd. @IITB	19-20 Oct 2019
Divya Kulkarni	Blood Donation Camp	Appreciation	Rajya Rakt Sankraman Parishad	18-Sep-19
Nyuonika Shetty	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19
Tanzilla Shaikh	Junior Xavier Coding Marathon	Appreciation	Transmission, XIE	18-Sep-19
Chinmayee Patil	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Shrusthi Rathod	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19
Spencer Lobo	Game of Codes, Online coding competition	Participation	DBIT, Kurla, Mumbai	28-Sep-19

Activities under Science Club

The Science Club organized its first workshop on "Introduction to Arduino" to the registered member students of the science club on 20th July 2019. The workshop started at 8:45 am and lasted for four and half hours. The venue for the workshop was Advanced Technology Lab (ATL) on the second floor. The workshop began with introduction to arduino and all its details followed by practical execution on arduino board. The students were exposed to various aspects of arduino programming with hands on training using sensor based basic applications. The workshop was conducted by the Science Club Coordinator Dr. Ashutosh Valavade and 44 students participated in the event.

Activities under Science Club

The Science Club at XIE organised its first talk on Interesting Phenomena in Astronomy. By Ms. Pooja Tolia who is co-founder of Stargazing Mumbai and holds a Ph.D. in Outer space Politics. This talk was attended by the student members, and faculty members which included Dr. Ashutosh Valavade, Prof. Prajakta Subhedar and Prof. Yashonanda. The objective was to develop a sense of curiosity and interest among the student members of the science club, so that they take up astronomy as a hobby and develop their knowledge further in the field. Pooja took some very basic yet less known concepts such as various eclipses (solar and lunar), planetary transits, occlusions, binary stars, causes of a red moon, and explained them in detail to the audience. Keeping the session interactive, the speaker was successful in keeping the audience hooked to the subject. She also presented a few photos of actual phenomena that were explained giving the students a clear understanding.

FE-A

FE-B

FE-C

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