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INSTITUTE VISION

To be part of universal human quest for development and progress by contributing high caliber, ethical and socially responsible engineers who meet the global challenge of building modern society in harmony with nature.

INSTITUTE MISSION

- To attain excellence in imparting technical education from the undergraduate through doctoral levels by adopting coherent and judiciously coordinated curricular and co-curricular programs.*
- To foster partnership with industry and Governmental agencies through collaborative research and consultancy.*
- To nurture and strengthen auxiliary soft skills for overall development and improved employability in a multi cultural work space.*
- To develop scientific temper and sprit of enquiry in order to harness the innovative talents.*
- To develop constructive attitude in the students towards the task of nation building and empower them to become future leaders.*
- To nourish the entrepreneurial instincts of the students and hone their business acumen.*
- To involve the student and faculty in solving local community problems through economical and sustainable solutions.*

DEPARTMENT VISION

Fostering a bright technological future by enabling the students to function as leaders in software industry and serve as means of transformation to empower society through ITeS.

DEPARTMENT MISSION

To create an ambience of academic excellence through state of art infrastructure and learner-centric pedagogy leading to employability in multi-disciplinary fields.

PROGRAM EDUCATIONAL OBJECTIVES

- Graduates will demonstrate technical competence and leadership in their chosen fields of employment by identifying, formulating, analyzing and creating efficient IT solutions.*
- Graduates will communicate effectively as individuals or team members and be successful in varied working environment.*
- Graduates will demonstrate lifelong learning through continuing education and professional development.*
- Graduates will be successful in providing viable and sustainable solutions within societal, professional, environmental and ethical context*

PROGRAM OUTCOMES

- Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.*
- Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.*
- Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.*
- Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.*
- Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.*
- The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.*
- Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.*
- Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.*
- Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.*
- Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.*
- Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.*
- Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.*

DEPARTMENTAL ACTIVITIES

Data Science Applications and Practices in “R”

A one week Short Term Technical Program (STTP) was conducted by the IT department in collaboration with IEEE-MJCET SB (STB61939) from 13 – 18 Dec 2017 on Data Science Applications and Practices in “R” at MJCET Seminar Hall. A total of 60 participants from various parts of the country had participated. Amongst them, 15 were outstation participants coming from places like Chattisgarh, Nanded, Tirupathi, Guntoor, Nagpur, Bhimavaram. The program was widely covered by the press in various newspapers and dynamic media e.g. Sakshi, Times of India, Namaste Telangana, Andhrajyothi, Eenadu, Telanagana Today, Hans-India, Sakshi TV.

The Coordinator of the STTP was Dr. Mousmi Ajay Chaurasia, Professor & Head, ITD and Co-Coordinator was Dr. Devasish Pal, Professor & Associate Head ITD.

Inaugural session was addressed by:

- Chief Guest, **Dr. P.V.S. Maruthy Rao**, Vice Chairman, IEEE Hyderabad Section
- Guest of Honor **Dr. Anantha Desik**, Product Specialist, Tata Consultancy Services.
- Welcome address & Introduction to STTP by **Dr. Mousmi Ajay Chaurasia**, Prof & Head, ITD, CIS Chapter Advisor, IEEE-MJCET SB
- **Dr. Basheer Ahmed**, Advisor-cum -Director, MJCET
- **Janab Zafar Javeed Sahaab**, Honorary Secretary, SUES
- Vote of thanks was given by **Dr. Devasish Pal**, Prof. & Associate Head, IT dept. STTP Co-Cordinator

The program covered various aspects of Python, R and its applications discussed with three days hands – on experience.

Topics covered were:

- Overview of data Classification Methods
- Data Science and Predictive Analysis with applications
- Python and its Applications
- Overview of Logistics Regression Models
- Data Science in Insurance
- Data Science using Python
- Predictive Modelling and Case Studies using R
- Machine Learning using R

Last three days was complete hands – on experience on R and Python held at Computer Innovation Centre on a one-to-one basis.

Eminent Speakers/resource persons during the program were from both academic and corporate world. Some of the speakers for the sessions were:

- Dr. Atul Negi, Vice-Chair, Educational Activities, IEEE India Council
- Dr. Anantha Desik, Product Specialist, TCS
- Dr. N V Ganapathi Raju, Professor, IT Dept, GRIET
- Mr. Y. Suresh, DXC, Hyderabad.
- Mr. M. Balaji Sr. Software Engineer, Cavium Networks
- Mr. Swayam Prakash, IEEE Member, Young Professional Affinity Group
- Ms. Sushrutha Raj, Research Scholar, Amity University, Haryana





Academic Prize Distribution

All the academic toppers of B.E (I-IV Year) were felicitated by the department by giving them appreciation awards.



Guest Lecture on Database Management System

The department conducted a Guest Lecture in DBMS for B.E III/IV I-Semester IT students on “Functional Dependencies and Normalization”, on 13th October, 2017. The Lecture was scheduled from 9:00 AM – 12:00 PM and was attended by the students of both the sections.

The lecture was delivered by Mr. Mohammed Abdul Bari, Director One-Up Solutions Pvt Ltd and the topics covered in the lecture were

- Functional Dependencies
- Transitive Dependencies
- Multivalued Dependencies
- First Normal Form, Second Normal Form, Third Normal Form
- Boyce-Codd Normal Form



Guest Lecture on Theory of Computation

The department conducted a Guest Lecture in TOC for B.E.III/IV I-Semester IT students on “Types of Grammar and Normal Forms for Context-Free Grammars” on 20th October, 2017.

The lecture was delivered by Mr. Swayam Prakash, Assistant Professor, Amity School of Engineering and Technology (ASET) Pachgaon, Manesar, Gurgaon, Haryana, India. The topics discussed were:

- Classification Of Grammar
- Language generated by a Grammar
- Context Free Grammar with Ambiguity
- Chomsky Normal form



Guest Lecture on Design Analysis and Algorithms

The department conducted a Guest Lecture in DAA for B.E III/IV I-Semester IT students on “NP-Hard and NP-Completeness”, on 31st October, 2017.

The lecture was delivered by Mr. Himayatullah Sharief, Assistant Professor, IT Dept, MJCET and covered the following topics:

- Non Deterministic Algorithms
- Cook’s theorem
- NP hard graph problems
- Decision Problem
- Node covering problem



FACULTY ACHIEVEMENTS

PAPERS PUBLISHED BY FACULTY

1. S. Fouzia Sayeedunnisa, et al., published a paper on Wilcoxon Signed rank based Feature Selection for Sentiment classification at Second International Conference on Computational Intelligence and Informatics - ICCII 2017 held on 25th -27th September 2017.
2. Md. Riyazuddin, et al., published a paper on “Data Storage and Security Issues in Cloud Computing –An Analysis” in International Journal of Innovations in engineering and Technology Journal, Vol 9, Issue 2 – Dec 2017.
3. Shaik Rasool, et al., published a paper on “Unification of Real-time Analytics and IoT Data”, International Journal of Engineering Trends and Technology, Volume 54 Issue 3, December 2017 ISSN: 2231-5381.
4. Shaik Rasool, et al., published a paper on “Feature Point Extraction by Adaptive Over Segmentation and Feature Point Matching for Effective Digital Image Forgery Detection”, International Journal of Scientific & Engineering Research, Volume 8, Issue 9, September 2017 ISSN: 2229-5518

WORKSHOP/CONFERENCE

PARTICIPATION BY FACULTY

1. All the faculty members of IT Department attended “Applications of Fuzzy Logic using MATLAB” by Mr. Kaushik Sarkar on 30th Aug 2017 at MJCET.
2. All the faculty members of IT Department attended "Game Theory with Applications to Security" on 6th October 2017 at MJCET.

SPORTS ACHIEVEMENTS BY FACULTY

1. Dr. Devasish Pal participated in Two Day Inter College Sports meet held at Megha Institute of Engg & Technology for Women on 06 & 07 October 2017 and received 2 Runner Up prizes. One for chess and another for Table Tennis Doubles.
2. K Jyostna participated in 10k in 1hr 12min 22 sec and received a medal for the same.

STUDENT ACTIVITIES

Effective Literature Survey

The seminar was conducted on 4th August, 2017 for all the II and III year students by IEEE CIS student chapter on how to carry out an effective literature survey for the projects. The speakers for the lecture were Ms. Fouzia Sayeedunnisa, Assoc. Professor, IT Dept, MJCET and Mr. Md. Riyazuddin, Asst. Professor, IT Dept, MJCET.



IEEE Awareness Program

The seminar was conducted by IEEE-CIS student chapter on 8th August for III and IV year students. The chief guest and speaker of the event was Mr. Arifuddin Sohel – Head & Professor ECE Dept, MJCET. The speaker focused on how IEEE works, its international presence and its contribution to student's career.



Interactive session with Cavium Networks

The department campus recruitment training (D-CRT) program was conducted by IEEE-CIS and ACM student chapters on 24th August at Ghulam Ahmed Auditorium for the students of IT and CSE. The speaker for the session was Mr. Chandra Shekar, HR Group Manager, Cavium Network. The speaker emphasized on the recruitment procedure of Cavium Networks and the skills required for getting through the Interviews.

Tutorial talk on Applications of Fuzzy logic using Matlab

The tutorial talk was organized by IEEE-CIS student chapter on 30th august 2017 for the students of III year. The speaker for the session was Mr. Kaushik Sarkar, Asst. Professor, ECE Dept, Narula Institute of Technology, Kolkata. The speaker provided a broad introduction to Fuzzy logic and its application using MATLAB. The best practices & some research problems based on fuzzy set theory were also discussed.



Visit to Devnar School for Blind

The visit was organized by ACM student chapter on 17th Sept 2017 as a part of social and charity activity. The students of III and IV year actively participated and interacted with the students of the school.



Design and play with Photoshop

The event was organized by IEEE-CIS and ACM student chapters on 21st Sept 2017 for the students of IT. The speaker of the event was Mr. Mushtaq. The event was an interactive session with sharing of ideas from the participants on how to make a project design look more appealing by using Photoshop.



Game Theory with Applications to Security

A one-day workshop was organized by IEEE-CIS student chapter on 6th October 2017 for III year students. The speakers of the session were Prof. Arya Kumar Bhattacharya, Mahindra ecole central, Hyderabad and Dr. Praveen Paruchuri, Assoc. Professor, IIIT Hyderabad.

The speakers discussed introduction to AI and Game theory concepts and practical applications of Game theory in developing intelligent security systems.



UPCOMING EVENTS

- Guest lectures on latest trends
- Technical Events
- Adsophos
- Envisage
- Industry Institute Interaction Programs for academic subjects

CALL FOR ARTICLES

Call for articles for the next issue of INFOVOGUE Newsletter theme – Deep Learning.

Interested students and faculties can submit the articles on this theme. The article should not exceed 300 words and relevant to the newsletter theme of the issue. The editorial committee will scrutinize and publish the high quality articles in the next issue.

EDITORIAL BOARD

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Professor & Head, ITD

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B.E. II & IV Semester CBCS and III & IV YEAR II Semester– ACADEMIC YEAR 2017-2018

Sl. No.	Event / Activity	Scheduled Date for CBCS II & IV Semesters and III - IV year II Semester	
1	Commencement of Class work	08-01-2018	
2	ADSOPHOS 2018	11-02-2018 to 12-02-2018	
3	Submission of attendance up to 10-02-2018	15-02-2018	
4	Meeting / Counseling with parents of students having less than 65% of aggregate attendance up to 10-02-2018	19-02-2018 to 24-02-2018	
5	Class Test I (In syllabus coverage up to 28-02-2018)	05-03-2018 to 07-03-2018	
6	Distribution of Corrected Scripts of Class Test I and Online Entry of Class Test I Marks in Assessment matrix.	12-03-2018 to 17-03-2018	
7	Feedback	12-03-2018 to 17-03-2018	
8	Submission of Attendance up to 17-03-2018	21-03-2018	
9	Display of attendance up to 17-03-2018 and Class Test I Marks	24-03-2018	
10	Issue of Progress Report, Meeting / counseling with parents of students having less than 65% of aggregate attendance up to 17-03-2018 and/or scoring less than 40% marks in Class Test I	27-03-2018 to 31-03-2018	
11	Class Test II	23-04-2018 to 25-04-2018	
12	Display of attendance up to 21-04-2018 and meeting with parents of students having less than 65% of aggregate attendance.	23-04-2018 to 28-04-2018	
13	Distribution of Corrected Scripts of Class Test II and Entry of marks in Assessment Matrix	26-04-2018 to 28-04-2018	
14	Display of List of Detained Students	28-04-2018	
15	Last Date of Instruction	28-04-2018	
	Event / Activity	CBCS IV Semesters, III and IV year II Semester	CBCS II Semester
16	Preparation and Practical Examinations	30-04-2018 to 12-05-2018	30-04-2018 to 19-05-2018
17	Display of Final Internal Assessment Marks and Attendance up to 28-04-2018 on Department Notice Boards	05-05-2018	05-05-2018
18	Summer Vacation	30-04-2018 to 30-06-2018	30-04-2018 to 30-06-2018
19	Intimation of Errors and Discrepancies by Students to HODs	08-05-2018	08-05-2018
20	Submission of Sessional Marks to O.U. Examination Branch	14-05-2018 (or) As soon as OU Portal is Open for Submissions	14-05-2018 (or) As soon as OU Portal is Open for Submissions
21	Commencement of Theory Examinations	14-05-2018	21-05-2018
22	Day1 Compensations	Day4 (22-02-2018) and Day5 (23-02-2018)	