NAAC — ACCREDITED WITH GRADE **A**

G. S. Mandal's
Maharashtra Institute of Technology, Aurangabad
Department of Electronics & Telecommunication Engineering

E-Rêves

A Newsletter

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Editorial Board

Editor in Chief: **Dr. Ganesh S. Sable**

Executive Editor: **Ms. K.R.Khandagle**

Student Members : **Mr.Vallabh Kandle (TY(ETC)**

  Mr.Rushikesh Kale (TY(ETC)

  Ms. Aishwarya Ambekar (TY(ETC)

About Us

Head of Department's Message

Welcome to this new edition of E-Rêves Magazine.

Dear All,

Countries all around the world have certainly had to face major challenges and upheavals as a result of Covid-19. We've had to adjust and change the way we do things, with many sectors not left unscathed. However, in the midst of this pandemic we have found ways to carry on.

Our E&TC students have established a joint to venture, in bringing out a **magazine i.e. E-Raves** with their contributions. The glimpses of different technical, non-technical, curricular, co-curricular and extracurricular of all these activities have been covered in this magazine. The hard work, creativity & timely efforts put by the team are admirable. Hope you will enjoy this issue.

Regards,
Dr. Ganesh S. Sable

Institute- Vision &Mission

Vision-"MIT aspires to be leader in techno-managerial education at national level by making students technically superior and ethically strong having an enterprising spirit with a global mindset"

Mission-We are committed to provide wholesome education in technology and Management to enable aspiring student to utilize their fullest potential and becomes professionally competent by providing-well qualified, experienced and professionally trained faculty, state-of-the-art infrastructure facilities and learning environment, conductive environment for research and development, delight to all stakeholders."

Department-Vision & Mission

Vision-To develop the department into full-fledged centre of learning in the various fields of Electronics & Telecommunication keeping in views the latest development and making students technologically superior and ethically strong."

Mission-To impart education and training in the Field of electronics & telecommunication engineering and its allied areas by developing competencies of the students to meet social and industrial needs

Events

Guest Lectures

Expert Talk on "Optical Networks" for SY and TY students

Expert Talk on **"Leading the Right Carrier Path"** By Mr.Avinash Chate

Expert Talk on "Smart City" by **Mr. Pushkal Shivam,** ASCDCL, Smart city office Aurangabad

Two days' workshop on Communication Networks & Securities

IEEE students organised workshop on "Machine Learning Powered by Google Crowd Source"

Two days' workshop on **"FLYING COLOURS"** by Mr.K.Sreedhar Rao, Director, KILT, Aurangabad

One Week Faculty Development Program on **"DATA SCIENCE"**

Two days Workshop **on "Communication Networks and Securities"** for the B.Tech. ETC students by Mr. Amol Hattekar
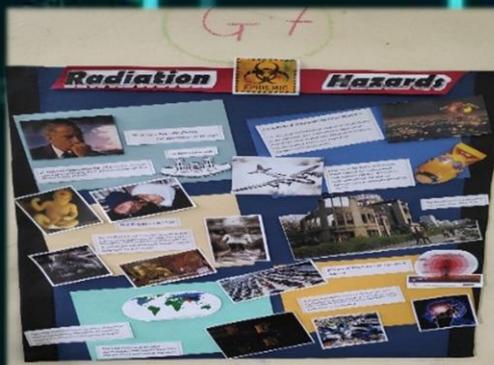

Antenna club Activity

Poster Presentation

Poster presentation Competition on "Radiation Hazards"

CO-ordinator: Mrs. S. J. Nandedkar

Date of conduction: 24th August 2019

Parents' Meet

Electronics and Telecommunication Engineering Department organizes two parent's meets per semester to build the foundation of parent and teacher teamwork for the common goal of overall development of students.

Parent's Meet-I: For All Classes in Sem-1

Parent's Meet-II: For SY(ETC)

Parent's Meet-II: For TY(ETC) & B.Tech(ETC) Sem-1

Employability Enhancement

Skill improvement

Aptitude test & Group Discussion: Weekly Conducted for TY & B.Tech final year students

Choice-Based Credit System

An adequate knowledge in the field, when integrated with specific skill set, qualifies the individual for a wide range of entry-level openings, so our Choice-Based Credit System is a flexible system of learning ,that permits students to learn at their own pace by choosing electives from a wide range of elective courses offered by the department & adopt an inter-disciplinary approach in learning.

Elective Courses offered by ETC department.

SY(ETC)-Professional Elective Courses-I offered

Sr.No.		Group A	Group B	Group C
1	Course	Database Management System	Sensors and Measurement	Consumer Electronics

TY(ETC)-Elective-II courses

Sr.No.	Group A	Group B	Group C
1	Programming in java	Microelectronics	Optical fiber communication

Open Elective-I Courses offered

Sr.No.	Name of Course	Department
1	Remote Sensing and GIS	AED
2	Professional Ethics and Cyber Security CSED	CSED
3	Design for Environment	CED
4	Robotics and Automation	EED
5	Internet of Things E	ETC
6	Costing and Financial Management	MED
7	Introduction to Nano Technology	PPED

**Audit –I Courses offered to TY(ETC)

Sr.No.	Name of Course	Department
1	Japanese Language module	BSH
2	Cyber Crime and Law	CSED
3	Road Safety Management	CED
4	Value Education	BSH
5	Smart Cities	ETC
6	Rural Community Engagement	MED
7	German Language Module	BSH

B.Tech (ETC)- Elective Courses offered groupwise.

Domain	IT	Embedded Systems/VLSI	Communication
Elective -III Course	Python Programming	Artificial Intelligence and Machine Learning	Wireless and Mobile Communication
Lab : Elective III	Python Programming	Artificial Intelligence and Machine Learning	Wireless and Mobile Communication
Elective -IV Course	Electronic Product Design	Biomedical Electronics	Enterprise Resource Planning

Open Elective-II Courses

Sr.No	Name of Course	Department
1	Fundamentals of Bioenergy	AED
2	Big Data Analytics	CSED
3	Solid Waste Management	CED
4	Energy Planning and Conservation	EED
5	Data Science	ETC
6	Operations Research	MED
7	Polymer Recycling and Waste Management	PPED

Industrial Visits

Class: SY(ETC)
Place: Doordarshan High Power Transmission , Mhaismal
Coordinators: Mrs.P.P.Patil, Mrs.K.R.Khandagle
Date: 22/10/2019

Class: TY(ETC)
Industry Name: Tata Communication Limited, Pune
Coordinators: Dr.S.P.Kodgire, Mr.S.B.Biradar
Date: 22/10/2019

Class: SY & TY(ETC)
Industry Name: JVS Electronics Bengaluru
Coordinators: Dr.V.R.Gosavi ,Mrs.M.D.Pawar
Date: 17/02/2020

Class: SY & TY(ETC)
Industry Name: Hindustan Aeronautical Limited ,Bengaluru
Coordinators: Dr.V.R.Gosavi Mrs.M.D.Pawar
Date: 18/02/2020

Class: SY & TY(ETC)
Industry Name: IISC Bengaluru
Coordinators: Dr.V.R.Gosavi ,Mrs.M.D.Pawar
Date: 18/02/2020

Student

Academic Achievements

Second Year Toppers

Pratiksha Dabhade
Rank 1 (8.22)

Sumati Ladane
Rank 2 (7.89)

Namrata Joshi
Rank 3 (7.41)

Third Year Toppers

Apoorva D. Kunde

Rank 1

Bhagyashree L.
Pardeshi -Rank 2

Samiksha Chauhan

Rank 3

Final Year Toppers

Shaikh Shoeb
Rank 1 (8.77)

Shinde Tirthesh
Rank 2 (8.73)

Karpe Pratibha
Rank 2 (8.73)

Thombre Hrishikesh
Rank 3 (8.63)

Industry-Institute Interaction-

GIZ - Funded Projects

Proud to share that student from Electronics and Telecommunication Engineering department of Maharashtra Institute of Technology, Aurangabad has received funding from Tata Technologies for their project work in different MSME's under Innovation Program initiated by GIZ with support of MASSIA.

Project 1

Name of the project :- "Develop an automatic inspection system"

Sponsored by:- GIZ, Tata technologies
Funds granted: - RS. 13,600
Name of the students:- Mr. Vallabh Kandle, Ms. Samiksha Chauhan, Ms. Aarti Sawale.
Guide: Dr.Ganesh S. Sable
About :- Students have developed an automatic inspection system in Mahesh Industries, Ranjangaon(SP), Waluj MIDC, Aurangabad. Mahesh industry pvt ltd. is currently manufacturing tool known as socker rod. The students gave the solution on the problem they made a one prototype with the help of PLC controller ,by this solution the time period is decreases by the 50% to 60% and the production cycle is double and the man power is decreases by 70%.

Project 2

Name of the project:- Enhance Productivity and Accuracy of Inspection system for seat pipe

Sponsored by:- GIZ, Tata technologies
Funds granted:- RS. 23600
Name of the students:- Ms. Ashwini S. Shyam , Ms. Surashri P. Videkar,
Guide: Dr.S.P.Kodgire
About :- Students developed mechanism to enhance productivity and accuracy of inspection system for seat pipe in Jotiba Technologies Pvt. Ltd , Waluj MIDC, Aurangabad Jotiba Tech Pvt ltd is currently manufacturing tool known as seat pipe. This seat pipe is used in front shock up system of a bike, this tool is currently being supplied to Endurance Industries plant in Aurangabad.

Project 3

Name of the project:- "Monitoring System for The Electrical Parameters of Press Machine"
Sponsored by:- GIZ, Tata Technologies.
Funds granted:- RS. 13,600
Name of the students:- Mr. Omkar Prayag, Mr. Sai Saudar, Mr. Gaurav Dahale.
Guide: Mr.R.L.Gaike

About :- Students have developed monitoring system for the electrical parameters of press machine in Shree Engineering, Waluj MIDC, Aurangabad. Real time data analysis will help the industry to select appropriate machines at different levels and the extra wastage of the energy can be identified and minimized.

Project 4

Name of the project :- "Development of Machine Wise Operator Identification System"
Sponsored by:- GIZ, Tata Technologies.
Funds granted :- RS. 15,600
Name of the students:- Ms. Bhagyshree Pardeshi, Ms. Apoorva Kandle, Mr. Vishal Garud.
Guide: Mrs.S.V.Verma

About :- Students have developed machine wise operator identification system in Sangram Auto Components Pvt. Ltd., Waluj MIDC, Aurangabad .Sangram Auto Components PVT. LTD manufacture sheet metal components, metal forming and fabrication of automotive components, such as Back Plates of Break assembly, welded sub- assemblies etc. Security is major issue in the industry as there is no track of operators using the machines. Sangram Auto Components thought to bring the operator identification system by which only skilled operator can operate the machine.

Project 5

Name of the project:- "Ensure Regrinding O TOOLS AT SPECIFIED FREQUENCY"
Sponsored by:- GIZ, Tata Technologies.
Funds granted:- RS. 15,600
Name of the students:- Ms. Tejaswini Watane, Ms. Tejashree Deshpande, Ms. Pooja Eknath Gadekar
Guide: Mr.U.D.Shirale

About :- Tool life monitoring is important to prevent workpieces and tools from damage, and to increase the effective machining time of a machine tool. Students developed press tool monitoring system to ensure regrinding of tools at specified frequency in Sangram Auto Components Pvt. Ltd., Waluj MIDC, Aurangabad

A new tool-life criterion depending on a pattern-recognition technique is proposed. The neural network and wavelet techniques are used to realize the new criterion.

Co-curricular

PARTICIPATION OF STUDENTS IN EVENTS

ARDUINO & EMBEDDED SYSTEM:
Ashwini Paithankar has participated in the training session an hour with **Arduino and Embedded System**, organised by KitFlix on 7 May 2020. The trainer name- Amit Rana.

INTRODUCTION TO CIRCUIT DESIGN:
Pratiksha Athave has completed a one day project –based training program on **Introduction to Circuit Design**, Organised by Skyfi labs, Roboversity on 27 April 2020.

PYTHON BOOTCAMP:
Aditya Puranik successfully completed 24 total hours of Complete **Python Bootcamp**: Go from zero to hero in python3 online course on 1 May 2020, Organised by Udemy.

RASPBERRY PI & IOT:
Ashwini Paithankar and Pratiksha Athave have participated in the training session an hour with **Raspberry Pi and IOT**, organised by KitFlix on 29 April 2020. The trainer name- Amit Rana.

CYBER SECURITY & INTERNET OF THINGS:
Pratiksha Athave has successfully completed **Cyber Security and Internet of Things** on-online non-credit course authorised by Georgia Institute of Technology and offered through Coursera.

EXTRA CURRICULAR ACTIVITIES

CARRER EDGE – Knockdown the Lockdown:
Sarthak Mugale and **Ashwini Paithankar** have successfully completed **Carrer Edge- knockdown the lockdown** online course offered by TCS ion from 26 April to 5 May 2020.

COVID-19 AWARENESS PROGRAM:
 Ashwini Paithankar and **Pratiksha Athave** have successfully participated in online **Covid-19 Awareness program** organised by **Unnat Bharat Abhiyan Committee** of Maharashtra Institute Of Technology, Aurangabad for spreading the awareness about the modes to transmission &commitment to discharge the services to the nation.

WRITE PROFESSIONAL E-MAILS IN ENGLISH:
Aditya Puranik has successfully completed Write **Professional Emails in English** an online non-credit course authorised by Georgia Institute of Technology & offered through coursera on 5 May 2020

QUIZ ON COVID-19:
Pratiksha Athave has participated an online quiz for **awareness program on Covid-19** organised by Dr. Babasaheb Ambedkar Technological University, Loaner.

CULTURE & E-MAIL WRITING:
Pratiksha Athave has successfully completed Culture & Email writing online course offered by TCS ion on 4 May 2020. In this course overview of US, UK and Australians cultures,
 Writing business emails and its importance, Benefits of emails communications etc topics are covered.

BASICS OF INVENTARY MANAGEMENT:

Pratiksha Athave has successfully completed **Basics of Inventory Management** online course offered by ION Digital Hub, on 4 May 2020.

INTRODUCTION TO SEISMIC DESIGN:

Pratiksha Athave has completed a 1-day project based training program on **Introduction to Seismic Design** authorised by skyfi labs (Civil Simplified) on 29 April2020.

BASICS OF WEALTH MANAGEMENT:

Pratiksha Athave has successfully completed **Basics of Wealth Management** online course offered by TCS ION on 4 May 2020. In this course Introduction, private banking & asset management, wealth management process, services & activity are discussed.

CORONA WARRIORS:

Pratiksha Athave has successfully completed TCS ION **Corona Warriors** online course offered by TCS ION on 4 May 2020. In this course Introduction to Covid-19, Preventive Measures at personal space/home, Preventive measures at work, Additional measures to handle Covid-19 points are discussed.

PRESENTATION SKIILS:

Pratiksha Athave has successfully completed **Presentation Skills** online course offered by TCS ION from 1 May to 3 May 2020. In this course discussed topics are the 5 ways for a presentation, Preparation of effective slides, DO's and don'ts of creating and presenting a presentation.

UG student achievement-

Congratulations...!!

Happy to share this to you all that G.S. Mandal's MIT Aurangabad Department of Electronics and Telecommunication Engineering students Madhav Kulkarni, Shubham Jangid studying in Third Year E&TC got second prize in a project competition "*Nirmaan 2K19*" organized by Institute of Engineers India. Among all other 87 projects from various institutes the project "**LED Panel Tester**" got 2nd Prize.

In-Plant Training For 2019-20:
Total No. Of Students Placed for In-Plant Training-126
No. Of Students Receiving Stipends-47
Average Stipend Amount (INR/Per Month)-5670.21/-

PG student achievement-

Ms. Neha Sunil Shedolkar Student of M.Tech. E&TC awarded as a token of recognition for having performed par excellence and significant contribution toward **"Development of 5LPE MPW Test Chip MTO for Kiwi" by** SAMSUNG Electronics Co. Ltd

Faculty

Dr. Ganesh S.Sable (Prof. & HOD) (Ph.D)

Experience-19 yrs
Papers Published: 40 Plus,
Achievements: 1. **Patents**-02

STTP/FDP attended: 07
Invited talks delivered: 08

2. Best Academician Award by ESN research group of Publication
3. Member of BOS (ETC) of Dr. B. A.M.U. Aurangabad .
4.GIZ Massia project received grant

Books published:02   Book chapters:05

Link:Facultyprofile/Dr.Ganesh sable

Mr.M.S.Vaishnav (ME-EC)
Vice-Principal (Administration)

Experience: 21 yrs.   Papers Published:02

Dr.Abhilasha Mishra (Ph.D)

Experience:25 yrs.
Papers Published:46
Achievement:1. Patents-02

STTP/FDP attended: 22
Invited talks delivered: 06

2. **Book Chapter :01**
3. **National Award: IETE Prof S N Mitra Memorial Award, 2013**
4. Member of BOS (ETC) of Dr. B. A.M.U. Aurangabad

Link - Facultyprofile/Dr.Abhilasha.Mishra

Dr.S.P.Kodgire (Ph.D)

Experience:23 yrs.
Papers Published: 40
Achievement: 1. **Women's Achievement Award 2017** from Arya

STTP/FDP attended:44
Invited talks delivered:07

Vaishya Lions Aurangabad
2.GIZ Massia project received grant
3. Elite with Silver medal in online NPTEL course

Link- **Facultyprofile/Dr.Shilpa.Kodgire**

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Mrs.S.V.Verma (ME-EC)

Experience: 31 yrs   **STTP/FDP attended: 21**

Papers Published: 21   **Invited talks delivered:02**

Achievement: 1. Innovative Practitioner Award "conferred by Mission 10 X

2.GIZ Massia project received grant

3. Elite with Gold medal in online NPTEL course

Book chapter:01   Link - Facultyprofile/Sarita.Verma

Mrs.S.J.Nandedkar (persuing Ph.D)

Experience: 16 yrs   **STTP/FDP attended:** 21

Papers Published: 06

Achievement: Elite with Silver medal in online NPTEL course

Link-Facultyprofile/ShilpaNandedkarCV

Mrs. M.D.Pawar (persuing Ph.D)

Experience:14.6 yrs   **STTP/FDP attended: 14**

Papers Published:18

Link:Facultyprofile/Manju.Pawar

Dr. Vinodpuri R.Gosavi (Ph.D)

Experience:16.5 yrs.   **STTP/FDP attended: 18**

Papers Published:30   **Invited talks delivered:05**

Achievement: Awarded Best paper for two research papers.

Link: Facultyprofile/Dr.Vinodpuri.Gosavi

Mrs.S.D.Sanap (persuing Ph.D)

Experience:13 yrs.   **STTP/FDP attended: 15**

Papers Published: 05

Achievement: Elite with Silver medal in online NPTEL

Link:Facultyprofile/Sarita.Sanap

Mr.R.L.Gaike (persuing Ph.D)

Experience:19 yrs.   STTP/FDP attended: 06

Papers Published:05   Invited talks delivered:05

Achievement: GIZ Massia project received grant

Link: Facultyprofile/Rajendra .Gaike

Ms.K.R.Khandagle (ME-EC)

Experience: 15+ yrs   STTP/FDP attended: 13

Papers Published: 13   Invited talks delivered:01

Achievement: Elite with Silver medal in online NPTEL course

Link:Facultyprofile/Kiran.Khandagle

Mrs. Latabai G.Sase (ME-EC)

Experience: 14 yrs   STTP/FDP attended: 07

Papers Published: 02

Link:Facultyprofile/Lata.Padole

Mr.Umesh D. Shirale (persuing Ph.D)

Experience:10 yrs.   STTP/FDP attended: 09

Papers Published:01   Invited talks delivered:03

Achievement:1. GIZ Massia project received grant

2.Published technical article in magazine EFY

Link: faculty profile/umesh .shirale

Mr.S.B.Biradar (ME-EC)

Experience:7.9 yrs.   STTP/FDP attended: 08

Papers Published:01   Invited talks delivered: 02

Link: Faculty profile/Shailesh.biradar

Mrs.P.P.Patil (ME-EC)

Experience:8.8 yrs.   STTP/FDP attended: 04

Papers Published:01

Achievement: Best Paper Presenter and Got First Prize at Converges'11

Link: Facultyprofile/Priti .Patil

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Mr.Suhas S.Chate -M.Tech(Signal processing)

Experience:10 yrs.   **STTP/FDP attended: 06**

Papers Published:05   **Invited talks delivered:06**

Achievement:1. Patents-01

2.Own more than 10 titles in different competitions of robotics

3. Elite with Silver medal in online NPTEL course

4.**Book Chapter:01**   Link:**FacultyProfile/Suhas Chate**

Mr.P.D.Bharad (ME-EC)

Experience:4.5 yrs.   **STTP/FDP attended:** 04

Papers Published:01   Link:**Facultyprofile/Prashant.Bharad**

Mr.V.P.Pawar (ME-EC)

Experience:10 yrs.   **STTP/FDP attended:** 04

Papers Published:02

Future prospects of ECE

Electronics and Communication Engineering is a promising growth-driven stream. Now a days electronics have become the vertebrae of digital technology as there is no field left across the globe where one cannot find the usage of it. Even imagining a life bereft of electronic gadgets seems impossible in today's world.

It has also been found that the employment in this sector has increased significantly in the last few years. The job scope for Electronics engineers which is growing by 7% from 2016.

The application in certain fields like satellite and mobile communication, digital telecommunication, power electronics, etc. has created amazing career options or job scope for the students.

In addition, several manufacturing companies, Multinational Corporations (MNCs research-based or industrial corporations, government authorities, aerospace manufacturing companies, consumer electronics manufacturing, healthcare tools manufacturing, Armed forces (Army/ Air Force/Navy), many others look for candidates with ECE background

Stay Protected from Corona

Wear your mask properly   Frequently wash your hands with soap   Maintain safe distance

NO CARELESSNESS UNTIL THERE IS A CURE

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