

Report
on
Student Orientation Program
For
B.Tech. in Internet of Things
(Offered by Department of Electrical Engineering)

II Year
Academic Session: July-Dec 2023

Dated: 01/08/2023



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत

A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, AFFILIATED TO R.G.P.V BHOPAL (M.P)

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Department of Electrical Engineering

Schedule of Orientation Program for B.Tech. EE IOT II Year

Date: 01.08.2023 (11:00 AM onwards)


Venue: Seminar Hall 3

SN	Activity	Timing	Faculty Incharge
1	Introduction to Department, Faculty & Staff	11:00 AM - 11:15 AM	Dr. Saurabh Kumar Rajput
2	Introduction to OBE (CO, PO, PEO)		
3	Scheme/Courses/ Evaluation Process Curriculum & Various Electives		
4	Road map of IOT Curriculum	11:15 AM - 11:30 AM	Dr. Praveen Bansal
5	Time Table	11:30 AM - 11:45 PM	Dr. Mudi Manohar
6	Importance of Weekly Special Classes for Remedial Purpose		
7	Proficiency Evaluation and Assessment Rubrics for Laboratory Courses	11:45 AM - 12:00 PM	Dr. Bhavna Rathore
8	NPTEL: Registration, Passing Criteria, and Assignment Submissions, Honors & Minors Requirements		
9	Examination related discussion	12:00 PM - 12:30 PM	Dr. P.K. Singhal
10	Placement & Internship	12:30 PM - 01:00 PM	Mr. Vikram Rajput, Head, T&P Cell
Lunch Break (01:00 to 02:00 PM)			
11	Importance of Taking Participation in Technical Activities Outside the Institute. Industry Academia Interaction	02:00 PM - 02:15 PM	Dr. Kaushal Pratap Singh Sengar
12	Importance of Feedback (CO, PO, Faculty, Curriculum, Lab etc.,)	02:15 PM - 02:30 PM	Dr. Yashwant Sawle
13	Importance of Student Chapters and Clubs	02:30 PM - 02:45 PM	Dr. Gaurav Khare
14	Lab Visits	02:45 PM - 03:30 PM	Faculty and Concerned Lab Staff
15	Feedback on Orientation Program	03:30 PM - 04:00 PM	Dr. Saurabh Kumar Rajput

Note: As per the availability of activity in-charge, the timing of activities can be changed


Dr. Saurabh Kumar Rajput
Prof. & Class Coordinator


Dr. Praveen Bansal
Asst. Prof. & Coordinator EE IOT


Dr. Sulochana Wadhwan
Prof. & Head, EED



Objectives

- To make students, who are admitted in EE (IoT) second year, feel comfortable in the new environment.
- To make the second year students aware about the curriculum, labs, and other aspects of IoT (EE) Department.
- To allow the second year students admitted in IoT (EE) to explore their academic interests through various activities and sessions.

Session Details

- **No of Registered students in the class** : 77
- **No of students present** : 37

List of activities conducted during orientation program

1. Introduction to OBE (CO, PO, PEO, Vision, Mission)

The students of Second year IoT (EE) were warmly welcomed by *Dr. Saurabh Kumar Rajput* who is the second year class coordinator. He congratulated all the students on being promoted to second year and wished them goodluck for the upcoming academic year. He introduced the faculty and the staff members who are presently working in the department of EE-IoT to the students.

Dr. Saurabh Kumar Rajput briefed the students about the field of IoT, emerging technologies in this field and provided them with departmental highlights. He also encouraged all the students to attend the classes regularly.

Then *Dr. Bhavna Rathore* continued the session and discussed the *Vision and Mission* of the department with the students. She laid emphasis on how *attitude and skill* mixed with knowledge are important for professional development. She discussed about the *course outcomes, program outcomes and program educational objectives* through which she attempted to make students



understand about the course objectives and provided a vivid picture about what department is aiming through the IoT (EE) program.

2. Scheme/Courses/ Evaluation Process Curriculum and Various Electives (Course introduction, Credits, Commencement of classes, Mode of teaching)

Dr. Saurabh K. Rajput in this session introduced the courses of the semester with the students. He started by discussing the *scheme and the syllabus and the credit each course carries* and then began to briefly explain about the *Departmental core courses, Departmental Lab courses, MOOC platforms, and various electives of the IoT (EE) branch.*

The importance of *online teaching and blended mode of classes* were also discussed by him. He reminded students about the commencement of classes in offline mode.

The process of *continuous evaluation* was discussed which presented the fact that students are being assessed regularly on the basis of quiz, assignments, provided to them and their response during the classes and not just on the basis of pen and paper mode exam. Through this he made students clear about the importance of attentiveness during the lectures.

3. Road map of IoT Curriculum

This activity was performed by *Dr. Praveen Bansal*. He discussed the agenda of the curriculum, about how it is planned to meet the program objectives. He elaborated about the present IoT curriculum and about its utility in the current employment scenario.

Recent advances in the curriculum were briefed. Also, the special importance was given to software languages for IoT learning. *He discussed about various carrier opportunities in the field of IoT and job searching methods were also discussed in detail* in this session. The importance of resume building was also highlighted.

Employment opportunities through All India GATE , ESE, etc were explained by Dr. Bansal. At the end of the session students also made queries which were effectively answered by him.



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4. Time Table

Time Table for the third semester was discussed by *Dr. Murlī Manohar*. He described the importance of weekly special classes for remedial purpose for *identifying slow, medium and fast learners and for problem solving and discussion*.

He emphasized on adhering to time-table for efficient learning.

The time table is as follows-

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)		DEPARTMENT OF ELECTRICAL ENGINEERING		TENTATIVE TIME TABLE				
Session: July – Dec 2023		B.Tech./EE(IoT)/II Year/III Semester		Room No. 117		w.e.f. 24.7.2023		
Time/Day	10:00 AM-11:00 AM	11:00 AM-12:00 Noon	12:00 Noon-01:00 PM	LUNCH	02:00 PM-03:00 PM	03:00 PM-04:00 PM	04:00 PM-05:00 PM	05:00 PM-06:00 PM
Monday		2220305 RS	2220302 AP		3000003 (Batch B) 2220301 (Batch A) AG/GK		2220301 GK	
Tuesday	2220303 KPS	2220304 YS	2220301 GK		3000003 (Batch A) 2220301 (Batch B) AG/GK		2220302 AP	200xxx (Novel Engaging Course)
Wednesday	2220304 YS	2220303 (Batch A) 2220305 (Batch B) KPS/RS						Concerned Faculty
Thursday	2220301 GK	2220303 KPS	2220304 YS		2220305 RS	2220302 AP	3000003 AG	
Friday	2220305 RS	2220306 MM			2220303 (Batch B) 2220305 (Batch A) KPS/RS		2220303 KPS	
Category Code	Course Code	Course Name			Faculty		Room No.	
BSC	2220301	Data Base Management System		Dr. Gaurav Khare (GK) + Mr. D.Singh		117		
DC	2220302	Fundamentals of Signals and Control Systems		Prof. Ashish Patra (AP)		117		
DC	2220303	Design & Analysis of Algorithms		Dr. Kaushal Pratap Sengar (KPS) + Mr. D.Singh		117		
DC	2220304	Computer Networks & Protocols		Dr. Yashwant Sawle (YS)		117		
DC	2220305	Analog & Digital Electronics		Prof. Richa Sharma (RS) + Er. R.S.Yadav		117		
DLC	2220306	Self-learning/ Presentation (SWAYAM/NPTEL/MOOC)		Dr. Murlī Manohar (MM)		SR-III		
NSS	3000003	Engineering Chemistry		Dr. Anjula Gaur		117		

Dr. Murlī Manohar
Time Table Coordinator

Dr. Praveen Bansal
Coordinator, EE(IoT)

Dr. Sulochana Wadhvani
Prof & Head, EED

5. Proficiency Evaluation and Assessment Rubrics for Laboratory courses

Dr. Bhavna Rathore in this session stressed on *proficiency in professional development courses*. She also discussed about the guidelines for the *continuous evaluation of lab courses*. *The rubrics for lab courses- preparation, Report, Observation, Behaviour and Viva*, were briefly discussed by her.



She strictly spoke about *maintaining attendance* which is not only compulsory for writing examination but also for effective learning.

6. NPTEL: Registration, Passing Criterion, and Assignment Submission, Honors & minors requirements.

Dr. Bhavna Rathore continued the session wherein she elaborated about SWAYAM/ NPTEL courses in curriculum, their registration, passing criterion, exam and certification.

She explained to students about self-learning through such illustrious platforms and its various benefits in terms of achieving honours and minor certification.

7. Examination related discussion

The procedure of the examination was explained in detail to the students of second year by *Dr. P.K. Singhal - exam controller*. He presented the *code of conduct* to be maintained during the exam strictly by the student. The care that must be taken while handling examination answer books, etc. were discussed by him. He also answered all the questions asked by the students during the discussion. The following points have been specifically discussed with the second year students:

- A. The COs and Bloom's level taxonomy mapped question papers.
- B. Structure of question papers.
- C. Timely submission of exam form.
- D. Criteria for forwarding the examination form by the department.

8. Placement and Internship

Mr. Vikram Rajput, the head of training and placement cell explained to students about various placement activities of the cell. He also described very well about how to embrace the *internship opportunities in leading MNCs and PSUs*. Students came to know about the *skills, attitude and mannerisms* to be developed by them, both on the personal and professional fronts to achieve the employment opportunities.



9. Importance of participating in technical activities outside the Institute

This activity was performed by *Dr. Kaushal Pratap Singh Sengar*. He on a light note to students said that all the answers cannot be found in class therefore student participation is mandatory outside the Institute to understand the culture of different spheres which will in turn bring laurels to the Institute and will certainly add to their personalities in a positive manner.

He emphasized on the fact that the certificates gathered in all such activities will strengthen the resume of the students which will benefit them in the long run.

Students were enlightened about government fellowships, their guidelines, procedure of applying for such fellowships, etc. were highlighted by him.

10. Importance of Feedback (CO,PO, Faculty, Curriculum, Lab)

Dr. Yashwant Sawle during his session asked students to give regular feedback on faculty, curriculum, etc. He pressed on the point that how feedback is important in filling the gaps, learning from the mistakes and improving them.

He claimed that student and parent feedback is important for improving labs, class rooms, overall infrastructure and also the course and program outcomes. He concluded by saying that feedback improves motivation to learn and one must sincerely provide it when asked to do so.

11. Importance of Student Chapters and Clubs

How a student chapter serves as a gateway to student's professional development was explained by *Dr. Gaurav Khare*. He underlined that the clubs and student chapters so formed within and outside the Institute will provide *social development and personal growth*. *The sense of sportsmanship is developed through these activities which helps people in growing as team players as well as individuals*.

He spoke about how various clubs help in developing ambition and friendship among people.

12. Lab Visits

Students with the help of faculties and staff have visited the following labs during this session:

a). *Internet of Things lab, IoT Architecture and Protocol lab and Virtual Instrumentation lab* by Dr. Bhavna Rathore, Assistant Professor and by Smt. Shashi Goel, lab instructor.

b) *Industrial automation lab* by Prof. Poonam Singh, Assistant Professor.



c) *Electrical machines lab* by Prof. Anuj Lodhi, Assistant Professor.

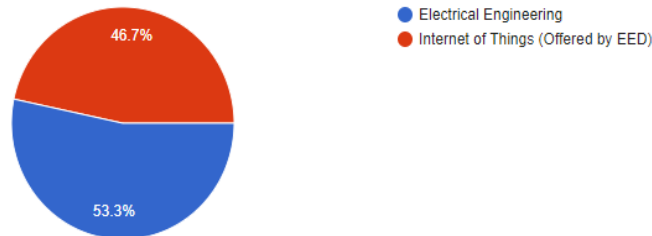
d) *Computer lab* by Dr, Murli Manohar, Assistant Professor.

e) *Analog and Digital Electronics lab* by Prof. Richa Sharma, Assistant Professor.

13. Feedback on Orientation Program

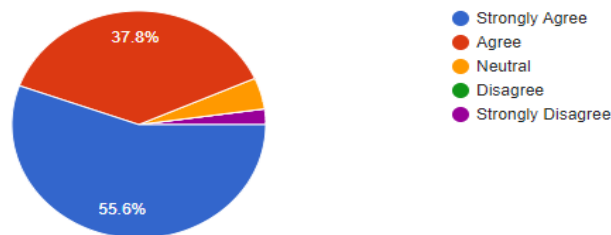
Feedback of the students recorded on Moodle is as under:

Branch
45 responses



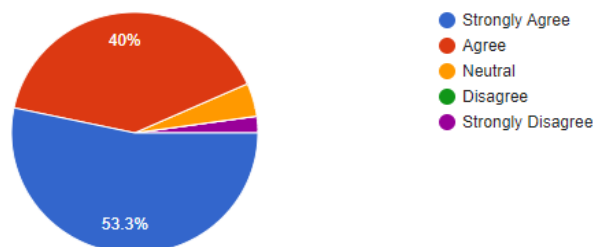
Department Orientation Program was well structured and organized on 01 August 2023

45 responses



Department Orientation Program is very helpful to know about your Department in depth.

45 responses





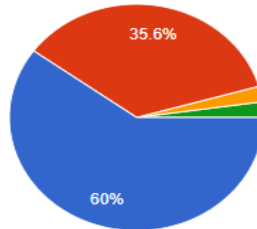
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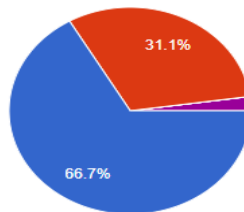
Content of the Orientation Program was useful and interesting.

45 responses



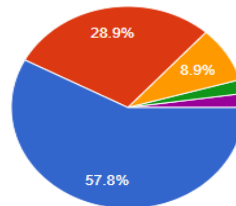
Explanation of Examination procedure by Dr. P.K. Singhal

45 responses



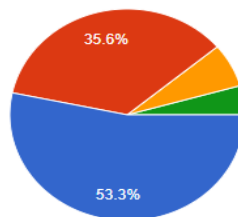
Discussion on Mentor-Mentee meeting

45 responses



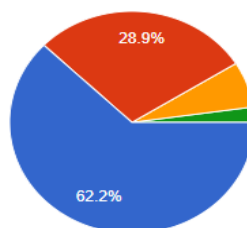
Start-up Talk

45 responses



Placement & Internship Session by Er. Vikram Rajput

45 responses





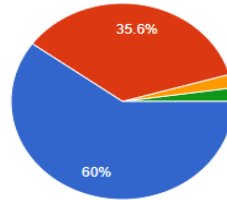
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Discussion on Importance of Feedback: All kind

45 responses



- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Photographs/Screenshots of the Orientation Program are as under:





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Attendance- Orientation Program, IoT (EE) of second year, III semester-

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ELECTRICAL ENGINEERING DEPARTMENT

Orientation Program for B. Tech. II Year EE (IoT)
Date: 01st August, 2023
Attendance Sheet

Sr. No.	Enrollment No.	Name	Signature
1.	0901E0221031	Ishika Dubey	Ishika Dubey
2.	0901E0221073	Yashika Gangil	Yashika Gangil
3.	0901E0221050	Renu Batham	Renu Batham
4.	0901E0221012	Anushka Dhaked	Anushka Dhaked
5.	0901E0221039	Mahak Sharma	Mahak Sharma
6.	0901E0221029	Deepak Prajapati	Deepak Prajapati
7.	0901E0221035	Keshav Singh Rathor	Keshav Singh Rathor
8.	0901E0221003	Abhishek Rajput	Abhishek Rajput
9.	0901E0221002	Abhishek Narwariya	Abhishek Narwariya
10.	0901EE211038	Dhruv Semar	Dhruv Semar
11.	0901EE211091	Priya Pateriya	Priya Pateriya
12.	0901E0221062	Simmi Mittal	Simmi Mittal
13.	0901E0221049	Rakhi Yadav	Rakhi Yadav
14.	0901E0221037	KUNAL PAWAR	KUNAL PAWAR
15.	0901E0221016	Avnish Jha	Avnish Jha
16.	0901E0221075	Bhame Pratap Singh	Bhame Pratap Singh
17.	0901E0221070	Vikash Singh Bhadana	Vikash Singh Bhadana
18.	0901E0221030	Indravel Singh Khuroiya	Indravel Singh Khuroiya
19.	0901E0221028	Harshit Tiwari	Harshit Tiwari
20.	0901E0221064	Sumal Sharma	Sumal Sharma
21.	0901E0221006	Akash Sharma	Akash Sharma
22.	0901E0221007	Aman Sharma	Aman Sharma



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ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Enrollment No.	Name	Signature
23	0901E0221005	Aditya SATHU	Aditya
24	0901E0221056	Saurabh Rathore	Saurabh.R
25	0901E0221027	Harsh Sharma	HS
26	0901E0221053	Rohit Singh Bhaloria	Rohit
27	0901E0221045	Kadhi / K. Shukla	Kadhi
28	0901E0221045	Gurjain Sharma	Gurjain
29	0901E0221038	Mahak Pal	Mahak
30	0901E0221034	Kaustubh Dubey	Kaustubh
31	0901E0221057	Shalini Tomar	Shalini
32	0901E0221044	Rajnish Kumar Sharma	Rajnish
33	0901E0221045	Rajkamal	Rajkamal
34	0901E0221026	Dev Pratap	Dev
35	0901E0221044	Trigyanthi Mishra	Trigyanthi
36	0901E0221024	Pragyanthi Tomar	Pragyanthi
37	0901E0221025	Divyansh Jha	Divyansh

Dr. Suresh Kumar Pappu
Class Coordinator
01/08/2023