Report

on

Student Orientation Program

For

Batch in Internet of Things
(Offered by Department of Electrical Engineering)

3rd Year (Vth Semester)
Academic Session: July-Dec 2023

Dated: 24/07/2023

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

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Department of Electrical Engineering

A Report

On

Orientation Program

For

B.Tech. Vth Semester

EE IoT

(Batch 2021-25 Admitted Students)

On

24th July 2023

Organized By:

Department of IoT(EE)

Dr. Kaushal PratapSengar/
Dr.GauravKhare
Class Coordinator
EE-IoTVthSemester

Dr. Praveen Bansal
Coordinator (IoT)

Schedule of Orientation Program

IoT (EE)

Date: 24/07/2023   **Venue: 107**

Schedule for EE IoT (V Semester)

S. No.	Activity	Timing	Faculty In charge
1	Introduction to OBE (CO, PO, PEO)	11:00 to 11:10	Dr. Bhavna Rathore Dr Saurabh Kumar Rajput
2	Scheme/Courses/ Evaluation Process Curriculum & Various Electives	11:10 to 11:20	Class coordinator
3	Examination related discussion	11:20 to 11:30	Dr Bhavna Rathore Dr. Murli Manohar
4	Proficiency Evaluation and Assessment Rubrics for Laboratory Courses	11:30 to 11:45	Dr. Bhavna Rathore
5	NPTEL: Registration, Passing Criteria, and Assignment Submissions, Honors & Minors Requirements	11:45 to 12:00	Dr. Praveen Bansal Dr Vikram
6	Importance of Feedback (CO, PO, Faculty, Curriculum, Lab etc.,)	12.00 to 12.20	Dr Yashwant Sawle Dr Gaurav Khare
7	Importance of Weekly Special Classes for Remedial Purpose	12.20 to 12.30	Dr Kaushal Pratap Senger
8	Importance of Student Chapters and Clubs	12:30 to 12:40	Dr Bhavna Rathore
9	Importance of Taking Participation in Technical Activities Outside the Institute	12:40 to 1:00	Dr Ankit Tiwari Dr Gaurav Khare
	Lunch Break (1:00 to 1:30)		
10	(a) Minor Projects	1:30 to 1:40	Dr Yahwant Sawle Dr. Saurabh Kumar Rajput
16	Lab Visits	1:40 to 2:40	Class Coordinators and Concerned Technical Lab Staff
17	Feedback on Orientation Program	2:40 to 3:00	Class Coordinators

Total Students Enrolled: 69

Total Student Present: 19

Objectives

- To make students, who are admitted in EE (IoT) Third year, feel comfortable in the new environment.

- To make the Third year students aware about the curriculum, labs, and other aspects of IoT (EE) Department.

- To allow the Third year students admitted in IoT (EE) to explore their academic interests through various activities and sessions.

Salient Points - Session Details

List of activities conducted during orientation program

24thJuly 2023 (Morning Session)

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

The students of Third year IoT (EE) were warmly welcomed by *Dr.Kaushal PratapSengar* and *Dr. Gaurav Khare* who are the Third year class coordinator. He congratulated all the students on being promoted to Third year and wished them good luck 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.Praveen Bansal who is coordinator of EE-IoT 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.Saurabh Kumar Rajput** continued the session and discussed the *Vision and Mission* of the department with the students. He laid emphasis on how *attitude and skill* mixed with knowledge are important for professional development. He 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.Kaushal Pratap Sengar and *Dr.Gaurav Khare* 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.

4. Time Table

Time Table for the third semester was discussed by *Dr.Murli 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-

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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		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	L U N C H	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) Concerned Faculty
Wednesday	2220304 YS	2220303 (Batch A) 2220305 (Batch B) KPS/RS						
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. Murli Manohar (MM)	SR-III
NSS	3000003	Engineering Chemistry	Dr. Anjula Gaur	117

Dr. Murli Manohar
Time Table Coordinator

Dr. Praveen Bansal
Coordinator, EE(IoT)

Dr. Sulochana Wadhwani
Prof & Head, EED

5. **Proficiency Evaluation and Assessment Rubrics for Laboratory courses**

   Dr.Bhavna Rathore in this session discussed 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.Praveen Bansal continued the session wherein he 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 third year by *Dr. Murli Manohar* 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. 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. **Importance of participating in technical activities outside the Institute**

This activity was performed by *Dr Ankit Tiwari/Dr. Kaushal Pratap 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.

9. **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.

10. **Importance of Student Chapters and Clubs**

How a student chapter serves as a gateway to student's professional development was explained by *Dr. Ankit Tiwari* and *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 help people in growing as team players as well as individuals.* He spoke about how various clubs help in developing ambition and friendship among people.

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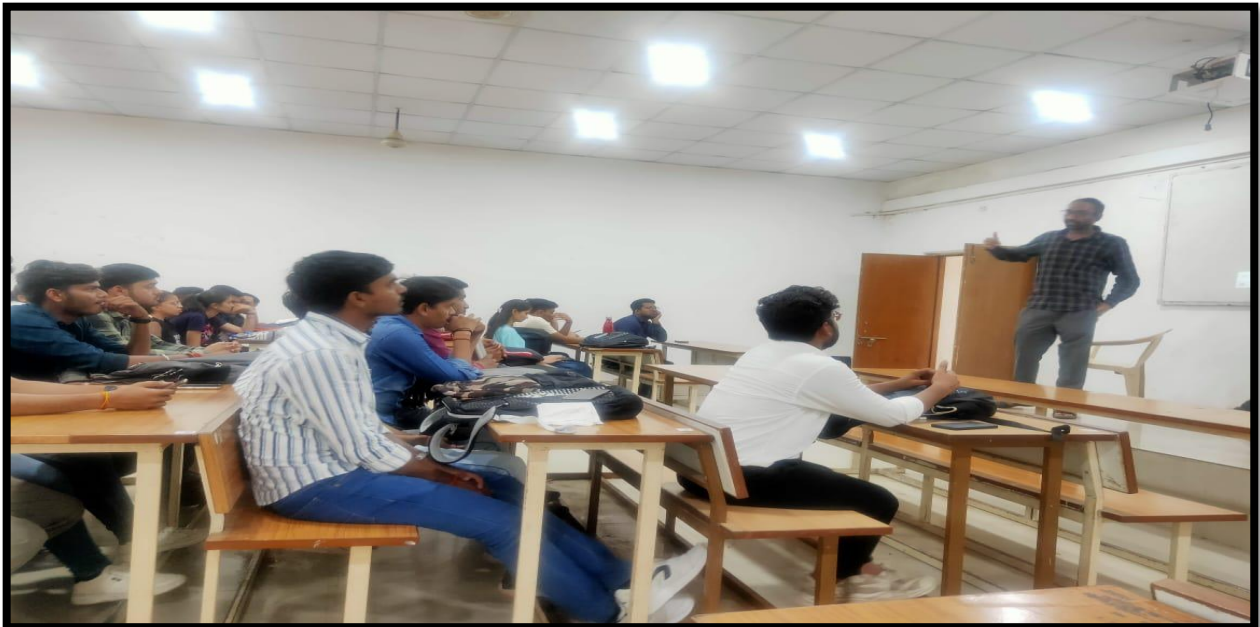A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, AFFILIATED TO R.G.P.V BHOPAL (M.P)

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11. Lab Visits

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

a). Embedded Control of Electrical Machine lab by Dr.Saurabh Rajput/Dr. MurliManohar, Assistant Professor and by Mr.Y.D. Jaital lab instructor.

b) IoT Architecture and Protocol lab by Dr. BhavnaRathor, Assistant Professorand by Ms.ShashiGoyal lab instructor.

c) Data Science in IoT lab by Dr. GauravKhare and by Mr.D. Singh lab instructor.

*d) Minor Project-I*by Dr. Praveen Bansal/ Dr. YashwantSawle, Assistant Professorby Mr. R.S. Yadav lab instructor.

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Photographs/Screenshots of the Orientation Program are as under:

Session given by Dr.Praveen Bansal on Road Map of IoT

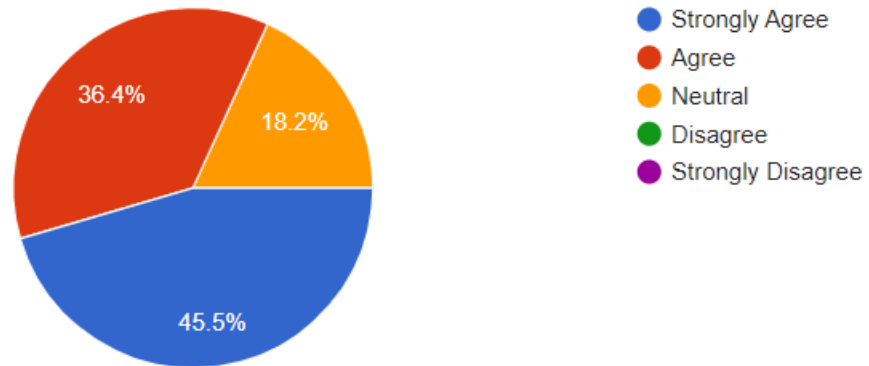**Session given by Dr.Vikram on SWAYAM(NPTEL)**

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Session given by Dr.Kaushal Pratap on Scheme of V Semester

Session given by Dr.Saurabh Rajput on Scheme of V Semester

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12. Feedback on Orientation Program

Feedback of the students recorded on Moodle is as under:

Department Orientation Program was well structured and organized on 15 March 2023

11 responses

Legend:
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

27.3% — 18.2% — 54.5%
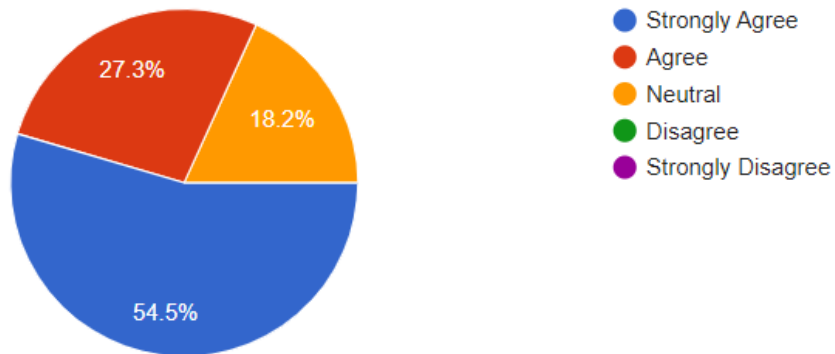
Department Orientation Program is very helpful to know about your Department in depth.

11 responses
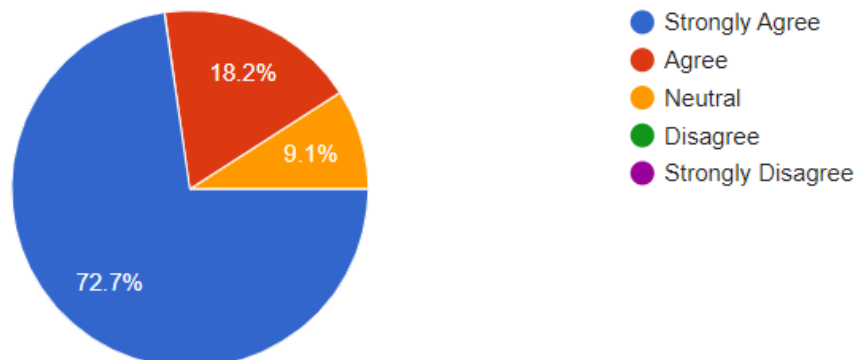
Legend:
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

18.2% — 9.1% — 72.7%

Content of the Orientation Program was useful and interesting.

11 responses

Lab visit was useful.

11 responses

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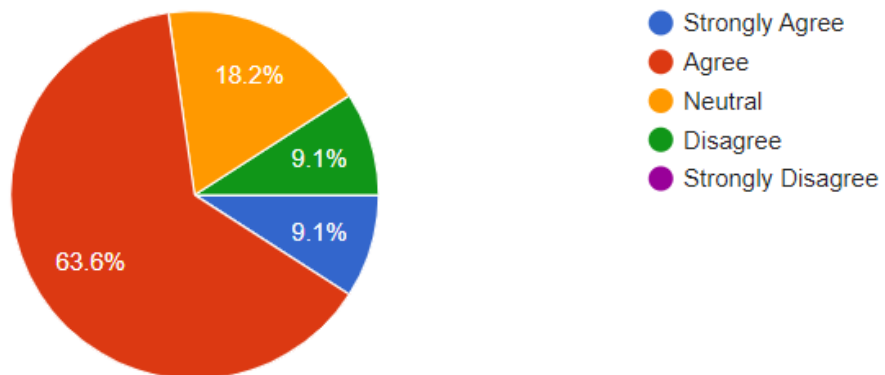
Explanation of Examination procedure

11 responses

Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree

45.5%
54.5%
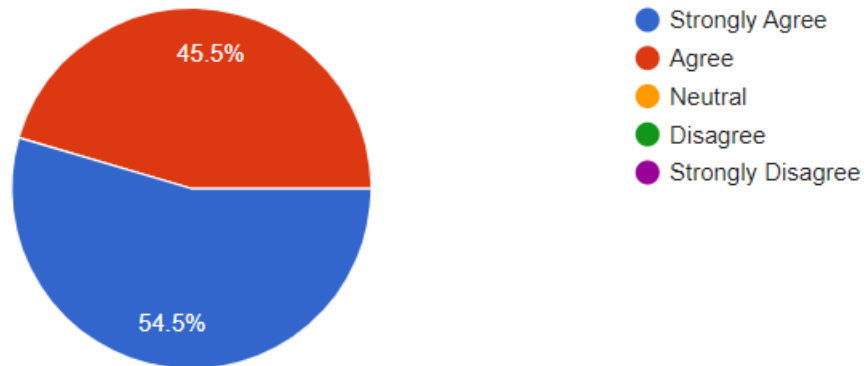
Discussion on Minor Project was useful

11 responses

Strongly Agree
Agree
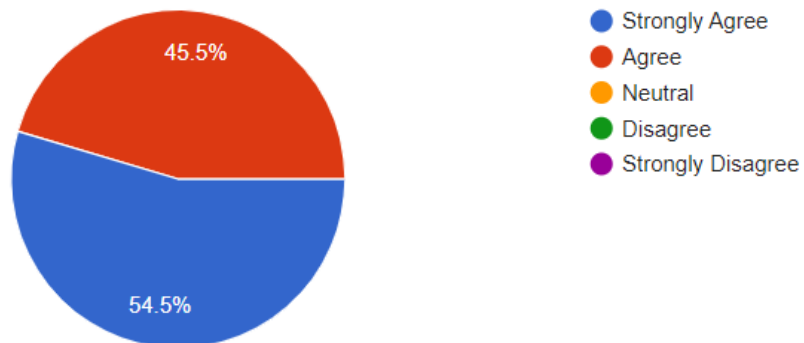Neutral
Disagree
Strongly Disagree

45.5%
54.5%
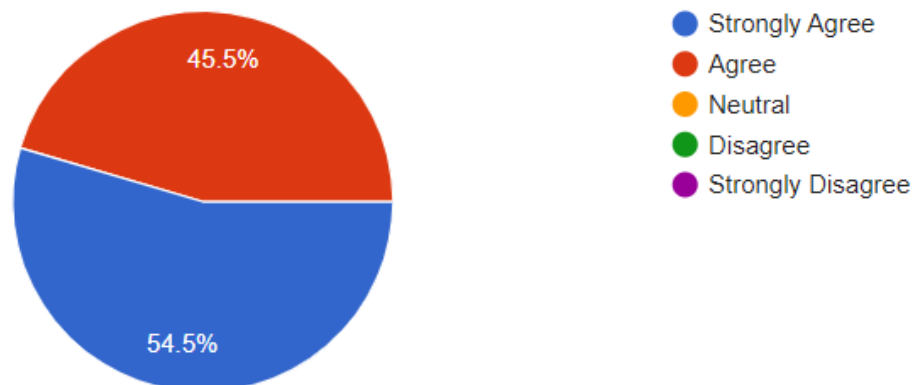
Start-up Talk

11 responses
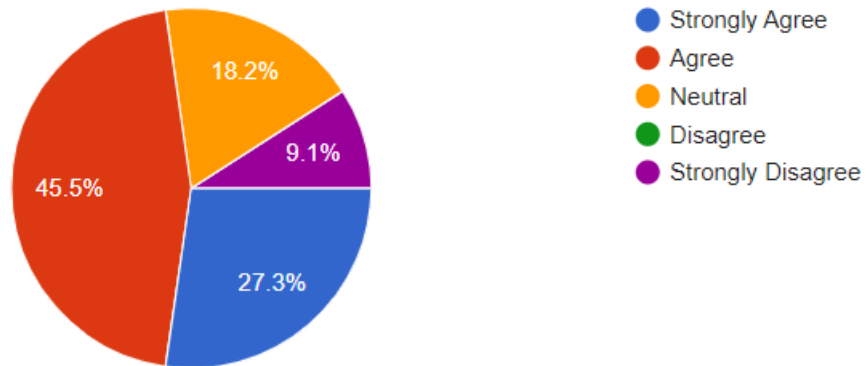
Discussion on Importance of Feedback: All kind
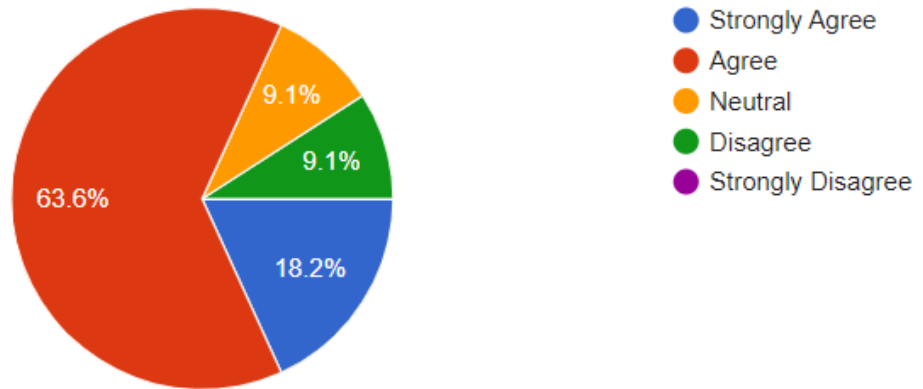
11 responses

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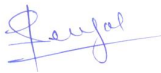A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, AFFILIATED TO R.G.P.V BHOPAL (M.P)

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Departmental activity & Interaction with seniors

11 responses

- 🔵 Strongly Agree
- 🔴 Agree
- 🟠 Neutral
- 🟢 Disagree
- 🟣 Strongly Disagree

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Attendance of the students of IoT (EE) of Third year, V semester-

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Department of Electrical Engineering
Orientation Program - 2023
B.Tech. (Internet of Things)

Sr. No.	Name	Roll No.	Signature
1	Sanskriti Yadav	0901E0211048	Sanskriti
2	Dorui Verma	0901E0211009	Ask
3	Alok Sharma	0901E0211005	Alok
4	VIKASH SHARMA	0901E0211059	Sharma
5	Anushka Sharma	0901E0211012	Anushka
6	Sparsh Khategivale	0901E0211055	Sparsh
7	Kashish Agrawal	0901E0211030	Agrawal
8	Devansh Tiwari	0901E0211019	Devansh
9	Anshika Batham	0901E0211010	Anshika
10	Disha jain	0901E0211021	Vishal
11	Shristy Jain	0901E0211053	SJ
12	Aayush Jain	0901E0211001	AJ
13	Nakul Jha	0901E0211038	Nakul
14	Nivedita Sharma	0901E0211040	N.sharma
15	Nandani Dixit	0901E0211039	N.Dixit
16	Mayank Yadav	0901E0211037	Mayank
17	Himanshu Jha	0901E0211027	Himanshu
18	Divyanshi Rai	0901E0211023	DRai
19	YOGESH	0901E0211063	Yogesh

Dr. Kaushal PratapSengar/
Dr.Gaurav Khare
Class Coordinator
EE-IoT V^th Semester

Dr. Praveen Bansal
Coordinator (IoT)