

**Tezpur University**  
**Department of Mechanical Engineering**  
**End-Semester Presentation cum Evaluation (Autumn 2024)**

**Programme: B.Tech (7<sup>th</sup> semester project) - ME483**

**Venue: Teachers' Discussion room**

**Date: 10-12-2024**

<b>Panel members:</b> Prof. Tapan Kr. Gogoi, Prof. Partha Pratim Dutta, Dr. Paragmoni Kalita, Dr. Barnali Chowdhury, Dr. Seikh Mustafa Kamal, Dr. Shikha Bhuyan, Dr. Manash Pratim Boruah, Dr. Pooja Dutta					
<b>Grp. No.</b>	<b>Group members name</b>	<b>Group members roll no.</b>	<b>Supervisor (s)</b>	<b>Title of presentation</b>	<b>Time-slot</b>
1	Purbahni Konwar Akansha Deep Nisha Devi	MEB21023 MEB21040 MEB21028	Dr. Paragmoni Kalita	CFD SIMULATIONS ON FIN BASED PHOTOVOLTAIC THERMAL SYSTEM INTEGRATED WITH PCM MATERIAL	10:30 AM-11:00 AM (15 min+15 min)

**Guidelines to be followed by the presenting groups:**

- Title slide with clear information: title, name of the department, presenter's name, Supervisor's name and date.
- Organize content logically: introduction, body, conclusion and bibliography in proper format.
- Maintain a consistent and visually appealing slide design and mention the slide numbers.
- Use readable fonts (Ariel/Times New Roman), appropriate font sizes (18-32), and a professional color scheme.
- Incorporate visual aids such as charts and graphs to illustrate key points.
- 1 hardcopy must be submitted to the Panel members at the time of presentation.
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The report (latest by 09/12/2024, 10 PM) and presentation (latest by 10/12/2024, 9 AM) must be submitted through the below mentioned google drive link:

<https://drive.google.com/drive/u/1/folders/1FUSH7M07QH2-BSXqyF7K-RC-gd3CRrNE>

B.Tech-Project Coordinator  
Dr. Shikha Bhuyan  
Assistant Professor, Dept of ME, TU

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**Panel: 1**

**Venue: Teachers' Discussion room**

**Date: 13-12-2024**

<b>Panel members:</b> Prof. Tapan Kr. Gogoi, Prof. Partha Pratim Dutta, Dr. Prabin Haloi, Dr. Barnali Chowdhury, Dr. Shikha Bhuyan, Dr. Manash Pratim Boruah, Dr. Pooja Dutta					
<b>Grp. No.</b>	<b>Group members name</b>	<b>Group members roll no.</b>	<b>Supervisor (s)</b>	<b>Title of presentation</b>	<b>Time-slot</b>
1	Sarfaraz Samim Haque Bikash Ch. Nath Himanjit Patowary	MEB21014 MEB22201 MEB21066	Prof. Partha Pratim Dutta	CONVEYOR CUM BINDER MECHANISM	9:15 AM-9:45 AM (15 min+15 min)
2	Zaheer Akhtar Shahil Ali Mossaddique Chinmoy Bora	MEB21020 MEB21004 MEB21071	Prof. Tapan Kr. Gogoi	THERMO-HYDRAULIC DESIGN OF HEAT EXCHANGERS FOR SINGLE EFFECT VAPOR ABSORPTION COOLING SYSTEM OPERATED WITH WATER-LICL.	9:50 AM-10:20 AM (15 min+15 min)
3	Sulakshana Bhattacharyya Jyotirmoy Kashyap Chandrani Nirmalia	MEB21030 MEB21038 MEB21044	Dr. Barnali Chowdhury	ARCHIMEDEAN SCREW TURBINE	10:25 AM-10:55 AM (15 min+15 min)
4	Owen Rumon Garg Subham Dey Birhem Basumatary	MEB21009 MEB21025 MEB21034	Prof. Tapan Kr. Gogoi	EXERGY ANALYSIS OF A COMBINED THERMOELECTRIC GENERATOR, ORGANIC RANKINE AND ABSORPTION REFRIGERATION CYCLE DRIVEN BY DIESEL ENGINE EXHAUST (TENTATIVE)	11:00 AM-11:30 AM (15 min+15 min)
5	Chandrak Bhattacharjee Prashanti Roy Premjit Langthasa	MEB21005 MEB21063 MEB21049	Dr. Shikha Bhuyan	DESIGN AND DEVELOPMENT OF IMPROVED BATTERIES USING PHASE CHANGE MATERIALS FOR EV APPLICATIONS.	11:35 AM-12:05 PM (15 min+15 min)
6	Bishal Mala Debajoit Barman Anubhov Gogoi	MEB21060 MEB21046 MEB21048	Dr. Shikha Bhuyan	PYROLYSIS REACTOR	12:10 PM-12:40 PM (15 min+15 min)

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**Panel: 2**

**Venue: ME Seminar room**

**Date: 13-12-2024**

<b>Panel members:</b> Prof. Dilip Datta, Dr. Polash Pratim Dutta , Dr. Sushen Kirtania , Dr. Sanjib Banerjee, Dr. Prabin Haloi (2 <sup>nd</sup> half slot), Dr. Satadru Kashyap, Dr. Zahnupriya Kalita , Mr. Rakesh Bhadra, Dr. Vivek Kr. Mehta					
<b>Grp. No.</b>	<b>Group members name</b>	<b>Group members roll no.</b>	<b>Supervisor (s)</b>	<b>Title of presentation</b>	<b>Time-slot</b>
1	Tridip Kr. Chowdhury Hrishikesh Baruah Gourab Roy	MEB21050 MEB21047 MEB21057	Prof. Dilip Datta	EVACUATION SYSTEMS FOR HIGH RISE BUILDINGS	10:00 AM-10:30 AM (15 min+15 min)
2	Mohit Kumar Chiranjeev Shubham Nitish Kumar	MEB21068 MEB21007 MEB21055	Dr. Polash Pratim Dutta	DESIGN OF AN ANN BASED AI SYSTEM FOR EFFECTIVE PREDICTION OF OUTPUT IN DYNAMIC SYSTEM	10:35 AM-11:05 AM (15 min+15 min)
3	Sivam Karmakar Muskan Borgohain Velpula Tharun	MEB21006 MEB21013 MEB21070	Dr. Sushen Kirtania	MODELLING, THEORETICAL AND FINITE ELEMENT ANALYSIS OF A MISSILE	11:10 AM-11:40 AM (15 min+15 min)
4	Ashankur Borgohain Adarsh Kumar	MEB21024 MEB21053	Dr. Sanjib Banerjee	NUMERICAL ANALYSIS OF MACHINING BEHAVIOUR OF ALUMINIUM ALLOY	11:45 AM-12:15 PM (15 min+15 min)
5	Yusuf Ali Nekibur Rahman	MEB21012 MEB21001	Dr. Vivek Kr. Mehta	AUTOMATIC LAWN MOWER	12:20 PM-12:40 PM (15 min+15 min)
6	Pragyan Borgohain Kongkon Jyoti Nath Himanshu Konwar	MEB21031 MEB21027 MEB21042	Mr. Rakesh Bhadra	VERMICOMPOST REACTOR	12:45 PM-1:15 PM (15 min+15 min)
7	Sagar Das Nilotpal Mazumdar Rishobh Das	MEB21037 MEB21003 MEB21039	Dr. Satadru Kashyap	AUTOMATIC TIGHTENING MECHANISM FOR REHABILITATION DEVICE	3:00 PM-3:30 PM (15 min+15 min)
8	Dhyanabh Saikia	MEB21021	Dr. Prabin Haloi	DESIGN AND DEVELOPMENT OF ANKLE EXOSKELETON	3:35 PM-4:05 PM

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	Bhairab Jyoti Konwar Prabal Medhi	MEB22202 MEB21036	Dr. Zahnupriya Kalita		(15 min+15 min)
9	Anurag Hazarika Deepjyoti Dhar Abhishek Nath	MEB21026 MEB21054 MEB21059	Dr. Zahnupriya Kalita	SMART SERVICE MOBILE ROBOT	4:10 PM-4:40 PM (15 min+15 min)
10	Md. Amanuddin Rajkamal Ghosliya Bikee Wary	MEB21052 MEB21065 MEB21067	Dr. Vivek Kr. Mehta	VISION-BASED CART POLE BALANCING USING REINFORCEMENT LEARNING	4:45 PM-5:15 PM (15 min+15 min)

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