University of Technology

Department of CE, EE & ME

School of Engineering and Technology

University of Technology, Jaipur

Minutes of the 12th meeting of Board of Studies

A meeting of the Board of Studies (BOS) of **School of Engineering and Technology** was held on 10/12/2022 at 02:00 pm in the Department.

Following members were present in the meeting.

S. No.	Name	Profession
1	Dr. Pramod Sharma	Dean
2	Dr. K.N. Bairwa	HoD, Academician
3	Mr. Shyob Ali	AP, Academician
4	Lokesh Kumar Jain	AP, Academician
5	Dr. Swati Sharma	Academician, External member
6	Dr. Y.P. Singh	Academician, External member

Dr. Pramod Sharma, Dean of the School of Engineering and Technology, commenced the Board of Studies (BOS) meeting for the Civil, Mechanical, and Electrical Engineering departments, by extending a warm welcome to all members present. He acknowledged the continued commitment and hard work of the faculty and highlighted the importance of the meeting in advancing the departments' academic and research objectives.

Key Points Discussed:

1. **Review of Previous Meeting and Action Taken Report (ATR):**
    - **Review of 11th Meeting Minutes:**

      The minutes from the 11th meeting were reviewed and approved without changes.
    - **Action Taken Report:**
        - **Completed Actions:**
            - Successful organization of the National Workshop on Emerging Technologies.
            - Implementation of enhanced mentor-mentee systems.
            - Progress in hybrid learning model integration.
            - Strengthened alumni engagement and industry partnerships.
        - **Ongoing Actions:**
            - Continued development of online learning modules.
            - Ongoing infrastructure development and lab upgrades.
            - Enhanced focus on research output and collaboration.
2. **Curriculum Updates and New Course Proposals:** The Board discussed updates to the curriculum and the introduction of new courses for the upcoming academic year. The Dean emphasized the importance of incorporating industry-relevant skills and emerging technologies.

The following new courses were proposed:

B Tech - Civil Engineering	IPR, Copyright and Cyber Law of India
B Tech - Mechanical Engineering	Rock Engineering
B Tech - Civil Engineering	Building Planning
B Tech - Civil Engineering	Air & Noise Pollution and Control
B Tech - Electrical Engineering	Energy Management
B Tech - Electrical Engineering	Biomaterials Composite Materials
B Tech - Electrical Engineering	Electrical Machines and Drives
B Tech - Electrical Engineering communication	Power Generation Sources. Principle of Electronic
B Tech - Electrical Engineering	Micro and Smart System Technology
B Tech - Electrical Engineering	Wind and Solar Energy Systems.
B Tech - Electrical Engineering	Power generation Process
B.Tech - Mechanical Engineering	Fire and Safety Engineering
B.Tech - Mechanical Engineering	Rock Engineering
B.Tech - Mechanical Engineering	Manufacturing Processes
B.Tech - Mechanical Engineering	Theory of machines
B.Tech - Mechanical Engineering	Manufacturing Technology
B.Tech - Mechanical Engineering	Design Of Machine Elements– I
B.Tech - Mechanical Engineering	Hybrid and Electric Vehicles
B.Tech - Mechanical Engineering	Energy Science and Engineering
B.Tech - Mechanical Engineering	Analog Electronics Circuits
B.Tech - Mechanical Engineering	Ergonomics

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B.Tech - Mechanical Engineering	Internal Combustion Engines
B.Tech - Mechanical Engineering	Sensor Instrumentation
B.Tech - Mechanical Engineering	Electrical Machine
B.Tech - Mechanical Engineering	Steam Engineening
B.Tech - Mechanical Engineering	"Non Destructive Evaluation & Testing"
B.Tech - Mechanical Engineering	Advance Fluid Mechanics
B.Tech - Mechanical Engineering	Advance Thermodynamics
B.Tech - Mechanical Engineering	Operational Research
B.Tech - Mechanical Engineering	Power Plant Engineering
B.Tech - Mechanical Engineering	NON Conventional Machining Methods
B.Tech - Mechanical Engineering	Additive Manufacturing System
B.Tech - Mechanical Engineering and microsystems	Micro electro and mechanical systems (MEMS)
B.Tech - Mechanical Engineering	Aircraft Avionic System
B.Tech - Mechanical Engineering	Non-Destructive Testing
B.Tech - Mechanical Engineering	Optimization Techniques
B.Tech - Mechanical Engineering	Sustainable Engineering
B.Tech - Mechanical Engineering	Introduction to Ceramic Science & Technology
B.Tech - Mechanical Engineering	Plant, Equipment and Furnace Design
B.Tech - Mechanical Engineering	Cyber Security
B.Tech - Mechanical Engineering	Mineral Processing
B.Tech - Mechanical Engineering	Pipeline Engineering
B.Tech - Mechanical Engineering	Water Pollution control Engineering

B.Tech - Mechanical Engineering	Technical Textiles
B.Tech - Mechanical Engineering	Garment Manufacturing Technology
B.Tech - Mechanical Engineering	Factor of Human Interactions
B.Tech - Mechanical Engineering	Refinery Engineering Design
B.Tech - Mechanical Engineering	Fertilizer Technology
B.Tech - Mechanical Engineering	Electrical and Electronic Ceramics
B.Tech - Mechanical Engineering	Biomaterials
B.Tech - Mechanical Engineering	Composite Materials
B.Tech - Mechanical Engineering	Energy Audit and Demand side Management
B Tech - Civil Engineering	Town Planning
B Tech - Civil Engineering	Repair and Rehabilitation of Structures
B Tech - Civil Engineering	Energy Science & Engineering
B Tech - Civil Engineering	Pre-stressed Concrete
B Tech - Civil Engineering	Solid and Hazardous Waste Management
B Tech - Civil Engineering	Traffic Engineering and Management
B Tech - Civil Engineering	Bridge Engineering
B Tech - Civil Engineering	Geographic Information System & Remote Sensing
B Tech - Civil Engineering	Human Engineering and Safety
B Tech - Civil Engineering	Power Generation Sources.
B Tech - Civil Engineering	Principle of Electronic communication
B Tech - Civil Engineering	Finite Element Methods
B Tech - Civil Engineering	Soft Computing
B Tech - Civil Engineering	Industrial and Biomedical applications of RF Energy

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B Tech - Civil Engineering	Simulation Modeling and Analysis
B Tech - Civil Engineering	Experimental Stress Analysis
B Tech - Civil Engineering	Maintenance Management
B Tech - Civil Engineering	Unconventional Hydrocarbon Resources
B Tech - Civil Engineering	Energy Management & Policy
B Tech - Electrical Engineering	Restructured Power System
B Tech - Electrical Engineering	Electromagnetic Wave
B Tech - Electrical Engineering	Artificial Intelligence in Electrical Engineering
B Tech - Electrical Engineering	Advanced Network Analysis
B Tech - Electrical Engineering	Digital Signal Processing
B Tech - Electrical Engineering	IoT for Electrical Systems
B Tech - Electrical Engineering	Electrical and Hybrid Vehicles
B Tech - Electrical Engineering	Embedded Systems
B Tech - Electrical Engineering	Power System Operation and Control
B Tech - Electrical Engineering	Smart Grid Technology
B Tech - Electrical Engineering	Power Quality and FACTS
B Tech - Electrical Engineering	Control System Design
B Tech - Electrical Engineering	Line Commutated and active rectifiers
B Tech - Electrical Engineering	Advanced Electric Drives
B Tech - Electrical Engineering	Computational Electromagnetics
B Tech - Electrical Engineering	Machine Learning Applications in Power Systems
B Tech - Electrical Engineering	Finite Fields and their Applications
B Tech - Civil Engineering	Ground Improvement Techniques

B Tech - Electrical Engineering	Computer Architecture
B Tech - Electrical Engineering	Electrical Energy Conversion and Auditing
B. Tech - Mechanical Engineering	Quality Management
B. Tech - Mechanical Engineering	Computer integrated Manufacturing Systems
B. Tech - Mechanical Engineering	Human Values
B. Tech - Mechanical Engineering	Heat Transfer
B. Tech - Mechanical Engineering	Mechatronic Systems
B. Tech - Mechanical Engineering	Measurement and Metrology
M Tech - Mechanical	Mechatronics

The Board approved these proposals and agreed to integrate them into the curriculum.

3. **Research and Industry Collaboration:** The Dean highlighted the need to further enhance research output and industry collaboration. The Board discussed establishing more partnerships with industry leaders and research institutions. A proposal was made to create a research incubator within the departments to support innovative projects and startups. The Board agreed to move forward with this initiative.
4. **Student Support Services:** The Board reviewed the effectiveness of the current student support services. It was decided to expand academic counseling and peer mentoring programs, particularly focusing on first-year students. The Dean proposed additional workshops and seminars to address common academic challenges and career planning.
5. **Infrastructure Development and Lab Enhancements:** The Board discussed the status of ongoing infrastructure development and lab upgrades. It was agreed to allocate additional funds to accelerate the completion of lab equipment installations and to

enhance the learning environment. A proposal for upgrading specific lab facilities was approved.

6. **National Seminar on Innovations in Engineering:** The Dean proposed organizing a National Seminar on Innovations in Engineering to showcase cutting-edge research and technological advancements. The seminar will provide a platform for students, faculty, and industry experts to discuss recent developments and future trends. The Board supported the proposal and agreed to begin planning.

7. **Enhancement of the Mentor-Mentee System:** Building on the improvements made, the Board discussed further enrichment of the mentor-mentee system. It was proposed to implement a structured feedback mechanism and offer additional training for mentors to ensure the effectiveness of the program. The Board endorsed these recommendations.

8. **Alumni Engagement Initiatives:** The Board reviewed ongoing alumni engagement initiatives and proposed new activities, including:
   - Alumni-led workshops and webinars on industry trends.
   - Establishment of an alumni advisory board to provide guidance on curriculum and program development.
   - Creation of an alumni network platform for career opportunities and mentorship.

9. **The Board approved these initiatives and agreed to expand alumni engagement efforts.**

10. **Miscellaneous Points:**

- Discussion on launching a departmental newsletter to highlight faculty and student achievements.
- Consideration of organizing inter-departmental research and innovation fairs to promote collaboration and knowledge sharing.
- Review of strategies for increasing student participation in national and international engineering competitions.

The meeting ended with the vote of thanks to the chair.

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Dr. Pramod Sharma
Dean

Dr. K.N Balrwa
HoD

Mr. Rahul Vijay
Member

Dr. Yuvraj Singh
Member

Dr. Swati Sharma
Member

Dr. Y.P. Singh
Member