

Department of Electrical Engineering, MITS Gwalior
Summary of BoS Meeting held on 28.05.2022

Table 1: List of Courses where syllabus revision was carried out during

| Course code | Course name | Year of Introduction | Year of revision | Percentage of Syllabus content added or replaced | Agenda Item No | Page No | Link |
|---------------|-------------------|----------------------|------------------|--|----------------|---------|---|
| 900217 | Electric Vehicles | 2020 | 2022 | More than 20% (Replaced with revised content) | Item EE3 | 16 | http://web.mitsgwalior.in/images/Departments/electrical_engineerin g/BoS/BoS%20Minutes%20MayJune%202022_compressed.pdf |
| 130501/130511 | Signals & Systems | 2020 | 2022 | Less Than 5% (Added) | Item EE9 | 31 | |
| 130504/130514 | Power Electronics | 2017 | 2022 | Less Than 5% (Added) | Item EE9 | 36 | |

Table 2: List of courses having Focus on Employability/ entrepreneurship/ skill development

| Name of the Course | Course Code | Name of the Programme (UG/PG) | Activities with direct bearing on Employability/ Entrepreneurship/ Skill development | Year of introduction |
|----------------------------|-------------------|-------------------------------|---|----------------------|
| Electric Vehicles | 900217/ 130715 | UG | building of engineering knowledge used for the design, development, and test of vehicle electronics systems | 2022 |
| Data Science | 130515/220 505 | UG | Develop skills required for data-centric careers, pursuing jobs like data analyst, database developer, or data scientist | 2022 |
| Biomedical Instrumentation | 130716 | UG | Learning the generation & recording of bioelectrical signals, working with medical instruments used in the biomedical field | 2022 |
| IoT in Microgrid | 130713/ 900216 | UG | Understand the perspective of smart and renewable techniques for power system, fulfill job requirements | 2020 |

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Table 3: New courses introduced for Programmes Offered by Department

| Name of the Course | Course code | Name of the Programme (UG/PG) | Activities with direct bearing on Employability/ Entrepreneurship/ Skill development | Year of introduction |
|--|-------------------|-------------------------------|---|----------------------|
| Biomedical Instrumentation | 130716 | UG (EE) (DE-VII Sem) | Learning the generation & recording of bioelectrical signals, working with medical instruments used in the biomedical field | 2022 |
| Electric Vehicle | 130715 | UG (EE) (DE-VII Sem) | building of engineering knowledge used for the design, development, and test of vehicle electronics systems | 2022 |
| Embedded Control of Electrical Machines and IoT Architecture and Protocols | 220502 | UG (EE-IoT) | Understand the basic knowledge of dc & ac machines and their control using microcontroller | 2022 |
| | 220503 | UG (EE-IoT) | Understand the fundamental concepts and architecture of the Internet of Things, as well as the various protocols that are utilized in IoT applications. | 2022 |
| Cloud Computing | 220502 | UG (EE-IoT) | Cloud computing is the delivery of computing as a service over a network, whereby distributed resources are rented, rather than owned, by an end user as a utility. The course introduces this domain and cover the topics of cloud infrastructures, virtualization, software defined networks and storage, cloud storage, and programming models | 2022 |
| Data Science | 220505/ 130515 | UG (EE) UG (EE-IoT) | Develop skills required for data-centric careers, pursuing jobs like data analyst, database developer, or data scientist | 2022 |

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