MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal, MP)

Electrical Engineering Department

Table 1: Courses where revision was carried out

(Course/subject name)	Course Code	Year/Date of introduction	Year/Date of revision	Percentage of content added or replaced	Agenda Item No.	Page No.	Link of relevant documents/minutes
Computer Aided Power System Analysis	130611	2018	Dec 2021	14% (redistribution of contents of Unit-II & Unit-III)	7	22	Link

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Table 2: Courses focusing on employability/entrepreneurship/ skill development*

(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes
Introduction to Internet of things	130851	This course explains the different fundamental concepts behind IoT and the basic technologies connectivity devices that are required and an overall understanding about how IoT's are made. It provides basics of IoT networking, connectivity technologies, sensor networks, Introduction to Arduino etc.	2	2	Link
Power System Dynamics, Control and Monitoring	130855	Core Competency, Relevant for employment in power sector with integrated renewable generation	2	2	Link
Introduction to Soft Computing	130861	Interdisciplinary applications and relevance, employment in Research sector	2	2	Link
Non-Conventional Energy Resources	130862	Scale of quantities, Impact of current energy usage, Conventional sources of energy, solar energy technologies, Solar Thermal devices	2	2	Link
Machine Learning, ML	EE0620H3	Relevant for Employment in Industries, Research sector	5	3	Link
An Introduction to Artificial Intelligence	EE0620H4	Relevant for Employment in Industries, employment in Research sector	5	3	Link
Computer Networks and Internet Protocol	EE0622H1	Interdisciplinary applications and relevance	5	3	Link
Industrial Automation	130612	Analyze and design the various intelligent control systems, , Interdisciplinary applications and relevance	7	26	Link

Transducers and Sensors	130613	Smart Sensors, Wireless Sensors, exposure to sensors and its importance in the real world	7	28	Link
Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	130656	Concentrating and Non-Concentrating Solar Collectors, Biomass, Bioconversion of Substrates	8	5	Link

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Table 3: New courses added

New Courses added *					
(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes
Introduction to Soft Computing	130861	This course gives the basic concepts of fuzzy algebra and then discusses how to solve problems using fuzzy logic. Then the framework of genetic algorithms and solving varieties of optimization problems. And then how to build an artificial neural network and train it with input data to solve a number of problems	2	2	Link
Computer Networks and Internet Protocol	EE0622H1	This course covers the basic TCP/IP protocol stack and touches on the next generation computer networks. We will take a top-down approach to cover different protocols at the TCP/IP protocol stack. The broad objective of the course is to understand - (i) the architecture and principles of today's computer networks, (ii) the protocols and their functionalities, (iii) the requirements for the future Internet and its impact on the computer network architecture.	5	3	Link

Linear Dynamical Systems	EE0822H1	Linear system is the cornerstone of control theory and a prerequisite subject for almost all advanced level graduate courses in this area. This course will also strengthen the basic logical arguments behind mathematical proofs	5	3	Link
Programming with Python	130414/220403	Python will doubtlessly be at the forefront of AI innovation. Experts argue that Python is the most compatible programming language for machine learning and artificial intelligence . Its extensive libraries and frameworks are ideal for kick starting new ideas	12	48	Link
Renewable Energy Lab	130415	A new Renewable Energy Lab is set up in the department of Electrical Engineering. The objective of the lab is to train the students in Renewable Energy Sources and technologies and to provide adequate inputs on a variety of issues in harnessing Renewable Energy. The students will also be able to recognize the current and possible future role of Renewable energy sources.	12	49	Link

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Table 4: Feedback on curriculum received from stakeholders: Analysis & ATR*

Stakeholder	Student	Faculty	Alumni	Employer
No. of Responses	356	18	48	11
Link of Analysis	Student Feedback Analysis	Faculty Feedback Analysis	Alumni Feedback Analysis	Employer Feedback Analysis
ATR Link	ATR	ATR	ATR	ATR
Link showing Excel sheet of Google Form details of stakeholders	1st year Student Feedback Response 2nd year Student Feedback Response 3rd year Student Feedback Response	Faculty Feedback Response	Alumni Response	Employer Response