	7th Semester Open Elective Subjects' Information for Online Registration- ODD Sem 2 https://bmsitm.gnums.in/ (After Login-> Select Elective Registration in the main menu-> Select Elective Group in the d							
#	Dept	Course Title (click to view the syllabus)	Subject Code	/ (After Login-> Faculty name	<b>Select Elective Reg</b> Which Branch of Students CAN study this Open elective ?	Which Branch of Students SHOULD NOT study this Open elective ?	e main menu-> Select Elective Group in the c Write up about the Courses	
1	ECE	<u>Communication</u> <u>Theory</u>	18EC751	Prof. N Rashmi	CSE,ISE,AIML, EEE,CIVIL	ECE,ETE	Rapid Development in electronic communication systems is civilization, especially due to the convergence of wireless vo technologies. Analog and digital communication is a core su communication Engineering . The objectives of the course a fundamentals of communication systems at an introductory course deals with mathematical nature of communication t relevance of the theory wherever it is appropriate to do so. communications, Modulation and demodulation techniques communication and cellular communication. This course w engineering students of electrical and Electronics engineering Information science engineering.	
2	ECE	<u>Neural Networks</u>	18EC752	Prof. Chandraprabha R	CIVIL,ME,EEE, CSE,ISE	ECE,ETE,AIML	Neural networks have gone through a recent rise in popula in various fields, including image classification, speech reco objectives of the course are to understand the basics of ne genralisation function approximation of various ANN arcl unsupervised and reinforcement learning approaches using	
3	ECE	<u>ARM Embedded</u> <u>Systems</u>	18EC753	Dr. Anil Kumar D	CIVIL, CSE,ISE, AIML,EEE,ME	ECE, ETE	Objective : The objective of the course is to provide unders the design and implementation of embedded systems using To train the students on the Arm Cortex microcontroller w real world signals. To allow people in embedded system sec peripherals to ARM cortex based microcontroller and lear based Embedded electronic systems/products. Outcomes of of this course, the student should be able to: Understand the main features of the ARM Cortex based environment To understand the hardware interfacing of the peripher After the completion of the course, the students will be spec- using ARM Cortex.	
4	CSE	Introduction to Big Data Analytics	18CS751	Dr. Usha B A	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	Big data analytics is the use of advanced analytic technique that include structured, semi-structured and unstructured different sizes from terabytes to zettabytes. Organizations software to make data-driven decisions that can improve b may include more effective marketing, new revenue opport improved operational efficiency.	
5	CSE	<u>Python</u> <u>Application</u> <u>Programming</u>	18CS752	Prof. Rajesh N V	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	Python is a computer programming language often used to tasks, and conduct data analysis. Python is a general-purpe create a variety of different programs and isn't specialized versatility, along with its beginner-friendliness, has made it languages today. In this course you study about basic prog Lists, Dictionaries and Regular expressions and implement concepts in Python, Web Services, network and Database	

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is changing the face of human voice /data communication and internet subjects of Electronics and e are to expedite learning the ry level and in an effective manner. This theory and pointing out practical o. This course covers analog and digital es used in analog, pulse, digital will be useful for All undergraduate ring, Computer science and engineering,

larity, achieving state-of-the-art results cognition, and automated control. The neural network,gain the knowlegde on chiectures,develop the knowledge on ng neural network.

rstanding of the techniques essential to g suitable hardware and software tools. which has good capacity for processing ectors to learn programming/Interfacing urn troubleshooting of microcontroller of Course: Upon successful completion

ed Embedded System development

erals to ARM Cortex system. em. ecialized in Embedded System Design

ues against very large, diverse data sets d data, from different sources, and in s can use big data analytics systems and business-related outcomes. The benefits rtunities, customer personalization and

to build websites and software, automate pose language, meaning it can be used to d for any specific problems. This it one of the most-used programming ogrammng constructs like strings, files, nt Object Oriented Programming e Programming in Python.

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6	CSE	<u>Python</u> <u>Application</u> <u>Programming</u>	18CS752	Prof. Durga Devi G Y	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	Python is a computer programming language often used to tasks, and conduct data analysis. Python is a general-purpo create a variety of different programs and isn't specialized versatility, along with its beginner-friendliness, has made it languages today. In this course you study about basic progr Lists, Dictionaries and Regular expressions and implement concepts in Python, Web Services, network and Database I	
7	CSE	<u>Introduction to</u> <u>Artifical</u> <u>Intelligence</u>	18CS753	Prof. Muneshwara M S	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	Artificial intelligence (AI) is currently one of the hottest but The last few years have seen several innovations and advan solely in the realm of science fiction slowly transform into r intelligence as a factor of production, which has the potenti and change the way work is done across industries.	
8	ISE	Introduction to Big Data Analytics	18CS751	Dr Kshama	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	With today's technology, companies are able to collect trem ease. Indeed, many companies now have more data than the usually meaningless until they are analyzed for trends, patt information. Introduction to big data analytics course illust simple to complex, to help you analyze data sets and uncove	
9	ISE	<u>Python</u> <u>Application</u> <u>Programming</u>	18CS752	Dr Prakash G L	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	Python programming has become an imperative language f ML, Data Science, and many others. It is a simple yet powe be used for many tasks an engineer needs to accomplish. Th importance of python and applications of python in solving course includes python basics, core data structures, pattern working with files, object-oriented concepts, and web scrap	
10	ISE	<u>Python</u> <u>Application</u> <u>Programming</u>	18CS752	Dr Geeta Patil	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	Python programming has become an imperative language f ML, Data Science, and many others. It is a simple yet powe be used for many tasks an engineer needs to accomplish. Th importance of python and applications of python in solving course includes python basics, core data structures, pattern working with files, object-oriented concepts, and web scrap	
11	ISE	Introduction to Artifical Intelligence	18CS753	Dr. Sudhamani M V	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	This course will deal with the fundamental principles of Ar knowledge representation, reasoning, decision making and will also cover the principles of learning concepts which un techniques, as well as support developing an understanding between these algorithms.	

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o build websites and software, automate pose language, meaning it can be used to d for any specific problems. This it one of the most-used programming grammng constructs like strings, files, at Object Oriented Programming e Programming in Python.

uzzwords in tech and with good reason. Incements that have previously been reality. Experts regard artificial tial to introduce new sources of growth

mendous amounts of data with relative hey can handle. However, the data are tterns, relationships, and other useful strates a variety of methods, from ver important information.

e for new-age technologies such as AI, werful programming language that could This course will bring awareness of the ag engineering and social problems. This rn matching and regular expressions, aping.

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Artificial Intelligence including d programming techniques. The course inderpin many popular learning ng of the theoretical relationships

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12	ME	<u>Energy and</u> <u>Environment</u>	18ME751	Dr. Shripad Diwakar	CIVIL, ECE, EEE, ETE, CSE, ISE, AIML	ME	The importance of Environmental Studies cannot be disput development is a key to the future of mankind. The degrad continuing problems of pollution, loss of forests, solid waste productivity, and ecological security. The increasing levels depletion and a serious loss of biodiversity have also made environmental concerns. It is clear that, no citizen of the ea environmental issues. Environmental management has beco Managing environmental hazards and preventing possible With these objectives, In Energy and Environment open ele the knowledge in basic concepts of energy, its distribution a eco-systems and its need for awareness, to identify the varie social issues associated with the environment and their acts	
13	ME	<u>Automotive</u> Engineering	18ME752	Dr. HK Govindaraju	CIVIL, ECE, EEE, ETE, ISE, CSE, AIML	ME	The course on Automotive Engineering gives a practical ins systems and the parts of the automobile. It gives an opport the Petrol and diesel engine working, The variuos cylinder in IC engines. further the steering system, the cooling and I systems would be studied in depth. The use of supercharges fuel system for the engine gives a practical insight to the stu automobiles plays a vital role in its functioning. The concep ,where the carbon footprint is considered will also be dealt	
14	ME	<u>Automotive</u> <u>Engineering</u>	18ME752	Madhu MC	CIVIL, ECE, EEE, ETE, ISE, CSE, AIML	ME	The course on Automotive Engineering gives a practical ins systems and the parts of the automobile. It gives an opportu the Petrol and diesel engine working, The variuos cylinder in IC engines. further the steering system, the cooling and I systems would be studied in depth. The use of supercharger fuel system for the engine gives a practical insight to the stu automobiles plays a vital role in its functioning. The concep ,where the carbon footprint is considered will also be dealt	
15	EEE	<u>Electric Vehicles</u>	18EE752	Dr Madhu Palati	CIVIL ECE, ME, ETE, ISE, CSE, AIML	EEE	Electric Vehicles are more more advantages when compare are better for environment. They emit fewer greenhouse gas diesel vehicles. Electric mobility will also contribute to bala and environmental sustainability. This course gives brief ide importance. Vehicle mechanics, propulsion system, Hybrid used, other storage systems like Fuel cell and supercapacito vehicles and different speed control techniques of the electr the major components used in Hybrid Electric vehicle.	
16	EEE	<u>Electric Vehicles</u>	18EE752	Dr Sanjay Lakshminarayan	CIVIL, ECE, ME, ETE, ISE, CSE, AIML	EEE	The syllabus and contents are as follows: The course will be kinetics and dynamics of vehicles in general. Tractive powe Electric vehicles and hybrid electric vehicles configurations Batteries or energy storage systems are dealt with from lead to supercapacitors. Different types of electric motors or pro- power electronics is introduced such as motor drive technol electric and hybrid electric vehicles is dealt with including to motors, batteries and drive trains	

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uted. The need for sustainable adation of our environment is linked to ste disposal, issues related to economic is of global warming, ozone layer e everyone aware of the growing earth can afford to be ignorant of ecome a part of health care sector. e disasters has become an urgent need. elective course, students are able to gain and general scenario, environmental rious types of pollution and their effects, ts.

nsight into the various automobile rtunity for the students to know about er arrangements, the combustion process l lubrication ,Ignition, suspension gers and turbochargers along with the students.The drive system and brakes in cept of emission control in todays world alt in this course.

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red with conventional vehicles. These gases and air pollutants than petrol or lancing energy demand, energy storage dea about Electric Vehicles and its id Electric Vehicles, Types of Batteries itors. Types of Motors used in Elctric etric motors.Main design parameters of

begin with the understanding of the wer and energy involved to be studied. ns and performance, to be studied. ead acid batteries to lithium ion batteries ropulsion systems. Some concepts of nology. The overall design of fully g the sizing and rating of the component

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17	EEE	Electical Energy Conversation and Auduiting	18EE754	Mr. Rajnikanth V K	CIVIL, ECE, ME, ETE, ISE, CSE, AIML	EEE	This course covers topics such as energy conservation act a energy efficient lighting design. The student will learn powe energy efficiency in HVAC systems. In addition The econor calculations, life cycle costing analysis is covered in this cou		
18	ETE	<u>Communication</u> <u>Theory</u>	18EC751	Mrs. Sowmya Shree M.S	CIVIL,ME,EEE, CSE,ISE, AIML	ECE,ETE	The Course is put in a very simple manner, easy to underst understanding of communication for transmission of data f techniques that are necessary to send the correct information digital communication. Further informayion coding technic the data and send the information. Lastly communication u which is the trend and need of the present day life.		
19	ETE	<u>Neural Networks</u>	18EC752	Prof. Chandraprabha .R	ME,CSE,ISE, EEE,CIVIL	ECE,ETE,AIML	Neural networks have gone through a recent rise in popula in various fields, including image classification, speech reco objectives of the course are to understand the basics of ne genralisation function approximation of various ANN arch unsupervised and reinforcement learning approaches using		
20	ETE	Neural Networks	18EC752	Dr. Seema Singh	ME,CSE,ISE, EEE,CIVIL	ECE,ETE,AIML	Neural networks have gone through a recent rise in popula in various fields, including image classification, speech reco objectives of the course are to understand the basics of neu- genralisation function approximation of various ANN arch unsupervised and reinforcement learning approaches using		
21	CIVIL	Environmental Protection and Management	18CV753	Dr.Rajesh Gopinath	EEE, ECE, ME, ETE, ISE, CSE, AIML	CIVIL	Environmental Protection and Management as a course is g the concepts such as Environmental Principles, Standards a brings in formidable understanding about EMS as a tool al		
22	CIVIL	Environmental Protection and Management	18CV753	Mrs .Shimna Manohar	EEE, ECE, ME, ETE, ISE, CSE, AIML	CIVIL	Environmental Protection and Management as a course is a the concepts such as Environmental Principles, Standards a brings in formidable understanding about EMS as a tool al		
23	AI & ML	Introduction to Artifical Intelligence	18CS753	Dr.Anupama H S	CIVIL, ECE, EEE, ETE,ME	CSE,ISE,AIML	The basic objective of AI (also called heuristic programmin simulation of cognitive behavior) is to enable computers to decision making, problem solving, perception, understandin language, and translate among them).		

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and energy conservation. It also covers wer factor improvement techniques, omic aspects such as payback period ourse.

rstand which begins with basic a followed by the different modulation tion to the receiver both in analog and niques are studied which is used to code a using wireless transmission is studied

larity, achieving state-of-the-art results cognition, and automated control. The neural network,gain the knowlegde on chiectures,develop the knowledge on ng neural network.

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ing, machine intelligence, or the o perform such intellectual tasks as ling human communication (in any