

OSMANIA UNIVERSITY

Page No. 1/10  
Dt: 16-02-2022

No.104/BE/Exams/2022

**B.E. I Semester - CBCS (Backlog) EXAMINATIONS: March/April 2022**

**Time: 02.00 pm to 05.00 pm**

<b>Date</b>	<b>Subject</b>
08.03.2022	Engineering English
10.03.2022	Computer Prog. and Problem Solving
14.03.2022	Engineering Mechanics - I
16.03.2022	Engineering Physics - I
19.03.2022	Engineering Mathematics - I
22.03.2022	Engineering Chemistry - I

**Note: The Examination Centers should give highest priority to health and safety of all concerned by following the Protocols for preventing COVID-19 pandemic.**



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OSMANIA UNIVERSITY

No. 104/BE/Exams/2021

## TIME-TABLE

**B.E. II Semester - CBCS (Backlog) EXAMINATIONS: March/April 2022**

Time: 10.00 am to 01.00 pm

Date	Civil	Electrical & Electronics	Electronics & Instrumentation	Electronics & Communication	Mechanical/ Production	Automobile	Computer Science	Information Technology
28.03.2022	Engineering Mathematics – II	Engineering Mathematics – II	Engineering Mathematics – II	Engineering Mathematics – II	Engineering Mathematics – II	Engineering Mathematics – II	Engineering Mathematics – II	Engineering Mathematics – II
30.03.2022	Engineering Physics – II	Engineering Physics – II	Engineering Physics – II	Engineering Physics – II	Engineering Physics – II	Engineering Physics – II	Engineering Physics – II	Engineering Physics – II
01.04.2022	Engineering Chemistry – II	Engineering Chemistry – II	Engineering Chemistry – II	Engineering Chemistry – II	Engineering Chemistry – II	Engineering Chemistry – II	Engineering Chemistry – II	Engineering Chemistry – II
06.04.2022	Business Communication and Presentation Skills	Business Communication and Presentation Skills	Business Communication and Presentation Skills	Business Communication and Presentation Skills	Business Communication and Presentation Skills	Business Communication and Presentation Skills	Business Communication and Presentation Skills	Business Communication and Presentation Skills
08.04.2022	Engg. Mechanics - II	Elements of mech. Engg.	Elements of Mech. Engg.	Basic Circuit Analysis	Engg. Mechanics - II	Engg. Mechanics - II	Object Oriented Prog. Using C++	Object Oriented Prog. Using C++
12.04.2022	==	Electronic Engg. - I	Electronic Engg. - I	Electrical Technology	==	==	Basic Electrical Engg.	Basic Electrical Engg.

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## TIME-TABLE

## B.E. III Semester - CBCS (Backlogs) EXAMINATIONS: March/April 2022

Time: 02.00 pm to 05.00 pm

Date	Civil	Electrical & Electronics	Electronics & Instrumentation	Electronics & Communication	Mechanical/ Production	Automobile	Computer Science	Information Technology
07.03.2022	Surveying - I	Environmental Sciences	Environmental Sciences	==	Environmental Sciences	==	Environmental Sciences	==
09.03.2022	Build. Materials & Construction	Digital Electronics & Logic Design	Digital Electronics & Logic Design	Network Analysis & Synthesis	==	Fluid Mechanics & Machinery	==	Digital Electronics & Logic Design
11.03.2022	Fluid Mechanics – I	Electromagnetic Fields	Electromagnetic Fields	Switching Theory & Logic Design	Fluid Mechanics	Automotive Engg. Drawing	Logic & Switching Theory	Environmental Studies
15.03.2022	Engg. Geology	Prime Movers & Pumps	Prime Movers & Pumps	Electronic Devices	Engg. Thermodynamics	Automotive Ele. & Electro. Engg.	Data Structures	Data Structures
17.03.2022	Engineering Mathematics III	Engineering Mathematics III	Engineering Mathematics III	Engineering Mathematics III	Engineering Mathematics III	Engineering Mathematics III	Engineering Mathematics III	Microelectronics
21.03.2022	Strength of Materials – I	Electrical Circuits – I	Network Theory	Signal Analysis & Trans. Tech.	Metallurgy & Mater. Science	Thermal Engg.	Discrete Mathematics	Discrete Mathematics
23.03.2022	Ele. & Mech. Technology	Electronic Engg. – II	Electronic Engg. – II	Elements of Mech. Engg.	Mechanics of Materials	Mechanics of Materials	Basic Electronics	Probability & Random Processes

**Note:** BE (CIVIL) III – Sem. Subject Electrical and Mechanical Technology consists of **Two Subjects 1) Electrical Technology**  
**2) Mechanical Technology** and Two separate Answer booklets must be issued to each and every student.

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TIME-TABLE

B.E. IV Semester - CBCS (Backlog) EXAMINATIONS: March/April 2022

Time: 02.00 pm to 05.00 pm

Date	Civil	Electrical & Electronics	Electronics & Instrumentation	Electronics & Communication	Mechanical	Production	Automobile	Computer Science	Information Technology
29.03.2022	Numerical Methods	Engineering Mathematics-IV	Engineering Mathematics-IV	Applied Mathematics	Engineering Mathematics IV	Engineering Mathematics IV	Engineering Mathematics IV	Mathematics and Statistics	Signal and Systems
31.03.2022	Strength of Materials-II	Power Electronics	Power Electronics	Analog Electronic Circuits	Electrical Circuits & Machines	Electrical Circuits & Machines	Automotive Petrol Engines	Signals and System Analysis	Computer Organization & Microprocessor
04.04.2022	Fluid Mechanics- II	Linear Integrated Circuits	Linear Integrated Circuits	Pulse, Digital And Integrated Circuits	Basic Electronics	Basic Electronics	Automotive Chassis Components	Computer Organization	Scripting Languages
07.04.2022	Surveying -II	Power Systems-I	Transducer Engineering	Probability Theory & Stochastic Process	Applied Thermodynamics	Applied Thermodynamics & Heat Transfer	Metallurgy & Material Testing	Object Oriented Programming Using Java	OOPS Using JAVA
11.04.2022	Hydrology and Water Mgmt.	Electrical Circuits-II	Electrical Machines	Electromagnetic Theory and Transmission Lines	Kinematics of Machines	Kinematics of Machines	Kinematics of Machines	Programming Languages	Data Communications
13.04.2022	Environmental Sciences	Electrical Machines-I	Signal and Systems	Environmental Science	Design of Machine Elements	Design of Machine Elements	Environmental Sciences	Microprocessors and Interfacing	==
18.04.2022	Managerial Economics and Accountancy	Managerial Economics and Accountancy	Managerial Economics and Accountancy	==	==	==	==	==	Managerial Economics and Accountancy

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## TIME-TABLE

## B.E. V Semester - CBCS (Backlog) EXAMINATIONS: March/April 2022

Time: 10.00 am to 01.00 pm

Date	Civil	Electrical & Electronics	Electronics & Instrumentation	Electronics & Communication	Mechanical	Production	Automobile	Computer Science	Information Technology
08.03.2022	Reinforced Cement Concrete	Power Systems II	Power Plant Instrumentation	Linear ICs & Applications	Dynamics of Machines	Dynamics of Machines	Dynamics of Machines	Database Mgmt. Sys.	Software Engg.
10.03.2022	Theory of Structures I	Digital Signal Processing & Appl.	Digital Signal Processing & Applns.	Analog Communication	Manufacturing processes	Metal Forming Technology	Automotive Diesel Engines	Data Communi.	Database Systems
14.03.2022	Concrete Technology	Electrical Measur. & Instr.	Electrical Measur. & Instr.	Digital Signal Processing	Heat Transfer	Machine Tool Engg.	Heat Transfer	Automata, Lang. & Comp.	Automata Theory
16.03.2022	Hydraulic Machines	Linear Control Systems	Linear Control Systems	Automatic Control Systems	Machine Design	Machine Design	Design of Machine Components	Operating Systems	Operating Systems
19.03.2022	Transportation Engg. I	Electrical Machines II	Instrumentation Systems	Comp. Org. & Architecture	Operations Research	Operations Research	Operations Research	Computer Graphics	Computer Networks
22.03.2022	Environmental Engineering	==	==	Digital System Des. with Verilog HDL	CAD/CAM	CAD/CAM	Automotive Transmission	Managerial Eco. & Accy.	==
24-03-2022	Water Resource Engg. I	Gender Sensitization	Gender Sensitization	Gender Sensitization	Gender Sensitization	Gender Sensitization	Gender Sensitization	Gender Sensitization	Gender Sensitization
26-03-2022	Professional Elective I	Professional Elective I	Professional Elective I	==	==	==	==	Professional Elective I	Professional Elective I

Professional Electives:- See Annexure - I

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V - SEMESTER ELECTIVES

Professional Electives – I

<b>Civil</b>	<b>Electrical &amp; Electronics</b>	<b>Electronics &amp; Instrumentation</b>	<b>Computer Science</b>	<b>Information Technology</b>
Advanced Concrete Technology	Programming Logic Controllers	Building Automation Systems	Advanced Computer Architecture	Artificial Intelligence
Hydropower Engineering	Electronic Instrumentation	Principle of Communication Engineering	Artificial Intelligence	Computer Graphics
Infrastructure Engineering	FACTS Devices	Advanced Sensors	Simulation and Modeling	Multimedia Technologies
Soft Computing Skills in CE				





## TIME-TABLE

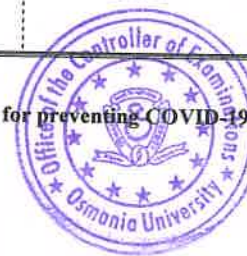
## B.E. VI Semester - CBCS (Backlog) EXAMINATIONS: March/April 2022

Time: 02.00 pm to 05.00 pm

Date	Civil	Electrical & Electronics	Electronics & Instrumentation	Electronics & Communication	Mechanical	Production	Automobile	Computer Science	Information Technology
28.03.2022	Steel Structures	Electrical Machines – III	Biomedical Instrumentation	Digital Communications	Metal cutting & Machine Tools	Metal Casting & Welding	Design of Automotive Components	Design and Analysis of Algorithms	Design and Analysis of Algorithms
30.03.2022	Str. Engg. Des. Detailing – I (Concrete)	Microprocessors and Microcontrollers	Microprocessors and Microcontrollers	Microprocessors and Microcontrollers	Refrigeration & Air Conditioning	Refrigeration & Air Conditioning	Performance & Testing of Automotive Vehicles	Software Engineering	Web Application Development
01.04.2022	Theory of Structures – II	Switchgear and Protection	Process Control	Antennas and wave Propagation	Hydraulic Machinery & Systems	Modern Machining and Forming Methods	Computer Aided Design, Analysis & Manufacturing	Web Programming	Compiler Construction
06.04.2022	Water Resource Engg. – II	Renewable Energy Technologies	Electronics Instr. Systems	Managerial Economics & Accy.	Metrology & Instrumentation	Metrology & Instrumentation	Production Technology	Computer Networks & Programming	Embedded System
08.04.2022	Professional Elective – II	Professional Elective – II	Professional Elective – I	Professional Elective – I	Professional Elective – I	Professional Elective – I	Professional Elective – I	Professional Elective – II	Professional Elective – II
12.04.2022	Open Elective – I	Open Elective – I	Open Elective – I	Open Elective – I	Open Elective – I	Open Elective – I	Open Elective – I	Open Elective – I	Open Elective – I
16-04-2022	Soil Mechanics	==	==	==	Automobile Engineering	==	==	==	==
19-04-2022	Transportation Engg. – II	==	==	==	==	==	==	==	==

Open Electives – I, See Annexure - II

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Open Elective – I

Civil	Electrical & Electronics	EIE	Electronics & Communication	Mechanical	Production	Automobile	Computer Science	Information Technology
<ul style="list-style-type: none"> <li>• Operating Systems</li> <li>• OOP Using Java</li> <li>• Database Systems</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Reliability Engineering</li> <li>• Basic of Power Electronics</li> <li>• Industrial Robotics</li> <li>• Material Handling</li> <li>• Automotive Safety &amp; Ergonomics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Operating Systems</li> <li>• OOP Using Java</li> <li>• Database Systems</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Industrial Robotics</li> <li>• Material Handling</li> <li>• Automotive Safety &amp; Ergonomics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Operating Systems</li> <li>• OOP Using Java</li> <li>• Database Systems</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Industrial Robotics</li> <li>• Material Handling Automotive</li> <li>• Automotive Safety &amp; Ergonomics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Operating Systems</li> <li>• OOP Using Java</li> <li>• Database Systems</li> <li>• Reliability Engineering</li> <li>• Basic of Power Electronics</li> <li>• Industrial Robotics</li> <li>• Material Handling</li> <li>• Automotive Safety &amp; Ergonomics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Operating Systems</li> <li>• OOP Using Java</li> <li>• Database Systems</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Reliability Engineering</li> <li>• Basic of Power Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Operating Systems</li> <li>• OOP Using Java</li> <li>• Database Systems</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Reliability Engineering</li> <li>• Basic of Power Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Operating Systems</li> <li>• OOP Using Java</li> <li>• Database Systems</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Reliability Engineering</li> <li>• Basic of Power Electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Reliability Engineering</li> <li>• Basic of Power Electronics</li> <li>• Industrial Robotics</li> <li>• Material Handling</li> <li>• Automotive Safety &amp; Ergonomics</li> </ul>	<ul style="list-style-type: none"> <li>• Disaster Mgmt.</li> <li>• Geo Spatial Techniques</li> <li>• Principles of Embedded Systems</li> <li>• Digital System Design Using HDL Verilog</li> <li>• Reliability Engineering</li> <li>• Basic of Power Electronics</li> <li>• Industrial Robotics</li> <li>• Material Handling</li> <li>• Automotive Safety &amp; Ergonomics</li> </ul>
<p><b><u>Professional Elective- II</u></b></p> <ul style="list-style-type: none"> <li>• Earthquake Resistant Design of Buildings</li> <li>• Wastewater Treatment</li> <li>• Ground Improvement Techniques</li> <li>• Watershed mgmt.</li> </ul>	<p><b><u>Professional Elective- II</u></b></p> <ul style="list-style-type: none"> <li>• AI Techniques</li> <li>• Electric Distribution System</li> <li>• Digital Control Systems</li> </ul>	<p><b><u>Professional Elective- I</u></b></p> <ul style="list-style-type: none"> <li>• Instr. In Aerospace and Navigation</li> <li>• Piping and Instr. Diagrams</li> <li>• Instr. And Control in Petrochemical industry</li> </ul>	<p><b><u>Professional Elective- I</u></b></p> <ul style="list-style-type: none"> <li>• Digital Image Processing</li> <li>• Data Communication and computer networking</li> <li>• Optical Communication</li> <li>• Digital TV Engineering</li> </ul>	<p><b><u>Professional Elective- I</u></b></p> <ul style="list-style-type: none"> <li>• Non-Conventional Energy Sources</li> <li>• Modern Machining and Forming Methods</li> </ul>	<p><b><u>Professional Elective- I</u></b></p> <ul style="list-style-type: none"> <li>• Flexible Manufacturing System</li> <li>• Control Systems Theory</li> </ul>	<p><b><u>Professional Elective- I</u></b></p> <ul style="list-style-type: none"> <li>• Computational Fluid Flow</li> <li>• Electric and Hybrid Vehicles</li> <li>• Material handling &amp; Earth Moving Vehicles</li> <li>• Finite Element Methods</li> </ul>	<p><b><u>Professional Elective- II</u></b></p> <ul style="list-style-type: none"> <li>• Graph Theory and Its Applications</li> <li>• Advanced Computer Graphics</li> <li>• Advanced Databases</li> </ul>	<p><b><u>Professional Elective- II</u></b></p> <ul style="list-style-type: none"> <li>• Data Mining</li> <li>• Software Quality &amp; Testing</li> <li>• Internet of Things</li> <li>• Image Processing</li> </ul>





**TIME-TABLE**

**B.E. VII Semester - CBCS (Backlog) EXAMINATIONS: March/April 2022**

**Time: 10.00 am to 01.00 pm**

Date	Civil	Electrical & Electronics	Electronics & Instrumentation	Electronics & Communication	Mechanical	Production	Automobile	Computer Science	Information Technology
07.03.2022	Str. Engg. Des. & Drawing - II (Steel)	Power System Operation & Control	Opto-Electronic Instrumentation	Embedded System	Thermal Turbo Machines	Tool Design	Automotive Air Conditioning	Compiler Construction	VLSI Design
09.03.2022	Estimation Costing & Specifications	Electric Drives and Static Control	Virtual Instrumentation	VLSI Design	Finite Element Analysis	Finite Element Analysis	Vehicle Maintenance	Distributed Systems	Big Data Analysis
11.03.2022	Finite Element Techniques	Electrical Machine Design	Analytical Instrumentation	Microwave Techniques	Industrial Engineering	Industrial Engineering	Metrology & Automobile Instrumentation	Information Security	Wireless Mobile Communication
15.03.2022	Prestressed Concrete	==	==	Ind. Admn. and Fin. Mgmt.	Production and Operations Mgmt.	Production and Operations Mgmt.	Vehicle Body Engineering	Data mining	Network Security and Cryptography
17.03.2022	Foundation Engineering	==	==	Professional Elective - II	Managerial Economics & Accy.	Managerial Economics & Accy.	Managerial Economics & Accy.	==	==
21.03.2022	Open Elective – II	Open Elective – II	Open Elective – II	Open Elective – II	Open Elective – II	Open Elective – II	Open Elective – II	Open Elective – II	Open Elective – II
23.03.2022	Open Elective – III	Open Elective – III	Open Elective – III	Open Elective – III	Open Elective – III	Open Elective – III	Open Elective – III	Open Elective – III	Open Elective – III
25-03-2022	==	==	==	Human Values and Professional Ethics	==	==	==	==	==

Open Electives – II & III, Professional Electives II : See Annexure - III

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Civil	EEE	EIE	ECE	Mechanical	Production	Automobile	Computer Science	Information Technology
<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul> <p><b>Professional Elective- II</b></p> <ul style="list-style-type: none"> <li>• Mobile and Cellular Communication</li> <li>• Speech Signal Processing</li> <li>• Electronic Measurements &amp; Instrum.</li> <li>• Dig. Signal Processor Architectures</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>	<p><b>Open Elec.-II</b></p> <ul style="list-style-type: none"> <li>• Green Building Technologies</li> <li>• Data Science Using R Prog.</li> <li>• Fundamentals of IoT</li> <li>• Non-Conventional Energy Sources</li> <li>• Entrepreneurship</li> </ul> <p><b>Open Elec.-III</b></p> <ul style="list-style-type: none"> <li>• Road Safety Engineering</li> <li>• Software Engg.</li> <li>• Principles of Electronic Comm.</li> <li>• Illumination and Electric Traction Systems</li> <li>• Mechatronics</li> </ul>

