

# DIPLOMA (EE & EV)

## Semester I

Sl. No.	Subject Code	Course Title
1	BS-01	Engineering Mathematics-I (BSD101)
2	BS-02	Engineering Physics-I (BSD102)
3	BS-03	Engineering Chemistry (BSD103)
4	HSM-01	English for Professional Communication (HSMD101)
5	ES-01	Fundamentals of Electrical Sciences (ESD101)
6	ES-02	Introduction to Computer Programming (ESD102)
7	MNC-AU-01	Induction Program / NCC / NSS / Yoga / Sports (MNCAUD101)

## Semester II

Sl. No.	Subject Code	Course Title
1	BS-04	Engineering Mathematics-II (BSD204)
2	BS-05	Engineering Physics-II (BSD205)
3	ES-03	Basic Electronics (ESD203)

4	ES-04	Engineering Graphics (ESD204)
5	LC-01	Workshop (LCD201)
6	ES-05	Industrial Safety (ESD205)

## Semester III

Sl. No.	Subject Code	Course Title
1	PCC-01	Engineering Mechanics (PCCDE301)
2	PCC-02	Electrical & Electronics Measurement (PCCDE302)
3	PEC-01	1. Electric Vehicles (PECDE301) 2. Vehicle Dynamics and Control (PECDE302) EV Technology and Policy (PECDE303)
4	PCC-03	Electric Motors and Transformers (PCCDE303)
5	PCC-04	Building Electrification (PCCDE304)
6	PCC-05	Electrical Power Transmission and Distribution (PCCDE305)
7	INT-01	Internship (INTDE301)

## Semester IV

Sl. No.	Subject Code	Course Title
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1	PCC-06	Induction Synchronous and Special Electric Machines (PCCDE406)
2	PCC-07	Energy Storage (PCCDE407)
3	PEC-02	1. Hybrid Electric Vehicle (PECDE401) 2. Electric Traction (PECDE402) 3. EV Powertrains (PECDE403) 4. EV Testing and Maintenance (PECDE404) Automotive Engines (PECDE405)
4	PEC-03	1. Power Generation (Conventional and Non-conventional) (PECDE406) 2. Switchgear and Protection (PECDE407)
5	PCC-08	Fundamental of Power Electronics (PCCDE408)
6	HSM-02	Entrepreneurship and Start-ups (HSMD402)
7	PR-01	Mini Project (PRDE401)

## Semester V

Sl. No.	Subject Code	Course Title
1	OJT-01	On the Job Training (OJTDE501)
2	IKS-01	Indian Knowledge System (IKSD501)

3	MNC-AU-02	Indian Constitution (MNCAUD502)
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## Semester VI

Sl. No.	Subject Code	Course Title
1	PCC-09	Electrical Estimation and Costing (PCCDE609)
2	PEC-04	<ol style="list-style-type: none"> <li>1. SCADA (PECDE601)</li> <li>2. Programmable Logic Controller (PLC) (PECDE602)</li> <li>3. Industrial Drives (PECDE603)</li> <li>4. Autonomous Electric Vehicle (PECDE604)</li> <li>5. Digital Twin technology in EV (PECDE605)</li> <li>6. EV Charging station and maintenance (PECDE606)</li> <li>7. Battery Management System (PECDE607)</li> </ol>
3	MOPEC-01	<ol style="list-style-type: none"> <li>1. Artificial Intelligence &amp; Machine Learning (Use respective department code)</li> </ol> Internet of Things (Use respective department code)
4	MOPEC-02	<ol style="list-style-type: none"> <li>1. Embedded System (Respective department code)</li> <li>2. Mechatronics (Respective department code)</li> </ol>

		code) Basic Control theory (Respective department code)
5	MNC-AU-03	Environmental Science (MNCAUD-603)
6	PR-02	Major Project (PRDE-602)