

**ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR**

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

**B. Tech. Scheme of Examination & Syllabus 2023-24****< Electrical Engineering >****III Semester**

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	EE301T	Network Analysis	4	1	-	5	30	70	100
2	EE 302T	Electrical Measurement and Instrumentation	4	-	-	4	30	70	100
3	EE302P	Electrical Measurement & Instrumentation Lab	-	-	2	1	25	25	50
4	EE303T	Electronics Devices and Circuits	4	1	-	5	30	70	100
5	EE303P	Electronics Devices and Circuits Lab	-	-	2	1	25	25	50
6	EE304T	Renewable Energy Sources	4	-	-	4	30	70	100
7	EE304P	Renewable Energy Sources Lab	-	-	2	1	25	25	50
8	H103	Constitution of India	2	-	-	0	Audit		
9	EE305T	Career Development- I	2	-	-	0	Audit		
<b>Total</b>			<b>20</b>	<b>2</b>	<b>6</b>	<b>21</b>	<b>195</b>	<b>355</b>	<b>550</b>

		June 2023	1.1	Applicable for 2023-24
Chairman - BoS	Dean – Academics	Date of Release	Version	

**IV Semester**

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	AS307T	Applied Mathematics-III	4	-	-	4	30	70	100
2	EE401T	Elements of Electromagnetics	3	1	-	4	30	70	100
3	EE402T	Electrical Power System	3	-	-	3	30	70	100
4	EE403T	Electrical Machines-I	3	1	-	4	30	70	100
5	EE403P	Electrical Machines-I Lab	-	-	2	1	25	25	50
6	EE404T	Programming in Electrical Engineering	3	-	-	3	30	70	100
7	EE404P	Programming in Electrical Engineering Lab	-	-	2	1	25	25	50
8	H 102	Universal Human Values – 2	3	-	-	3	30	70	100
9	EE405P	Technical Skill Development-I	-	-	2	1	50	-	50
10	EE406T	Career Development - II	2	-	-	0	Audit		
<b>Total</b>			<b>21</b>	<b>2</b>	<b>6</b>	<b>24</b>	<b>280</b>	<b>470</b>	<b>750</b>

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Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	EE501T	Power Electronics	2	1	-	3	30	70	100
2	EE501P	Power Electronics Lab	-	-	2	1	25	25	50
3	EE502T	Electrical Machines-II	2	1	-	3	30	70	100
4	EE502P	Electrical Machines-II Lab	-	-	2	1	25	25	50
5	EE503P	Seminar on Emerging Trends in Electrical Engineering	-	-	2	1	50	-	50
6	EE504T	Open Elective - I	3	-	-	3	30	70	100
7	EE-505T	Elective - I	3	-	--	3	30	70	100
8	EE-506T	Elective - II	4	-	--	4	30	70	100
9	H 104	Foundational Humanities Elective	2	-	-	-	Audit		
10	AS502T	English for Engineers	2	-	-	2	15	35	50
11	EE507P	Technical Skill Development II	-	-	2	1	50	-	50
12	EE508T	Career Development - III	2	-	-	0	Audit		
<b>Total</b>			20	2	8	22	315	435	750

\* Career Development (Interpersonal Skills and Aptitude)

	Open Elective - I		Foundational Humanities Elective
EE504T(i)	MATLAB Programming	H-104	Development of Societies
EE504T(ii)	PLC & SCADA Systems	H 104	Philosophy

	Elective - I		Elective - II
EE505T(i)	Advanced Power System	EE506T(i)	Power Station Practice
EE505T(ii)	Linear Electronics Circuits	EE506T(ii)	Project Management for Engineers
EE505T(iii)	Signals & Systems	EE506T(iii)	Power Quality
EE505T(iv)	Electrical Machine Design	EE506T(iv)	Battery Management Systems
EE505T(v)	Electric Vehicle Architecture	EE506T(v)	Electrical Instrumentation
EE505T(vi)	PLC & Industrial Automation		

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**B. Tech. Scheme of Examination & Syllabus 2023-24**

**< Electrical Engineering >**

**VI Semester**

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessmt	End Sem Examination	Total
1	EE601T	High Voltage Engineering	3	1	-	4	30	70	100
2	EE601P	High Voltage Engineering Lab	-	-	2	1	25	25	50
3	EE602T	Control System Engineering	3	1	-	4	30	70	100
4	EE602P	Control System Engineering Lab	-	-	2	1	25	25	50
5	EE603T	Professional Elective - III	3	-	-	3	30	70	100
6	AS501T	Economics & Management	3	--	-	3	30	70	100
7	EE604T	Open Elective-II	3	--	-	3	30	70	100
8	EE605P	Project - I	-	--	2	1	50	50	100
9	EE606P	Electrical Engineering Workshop	-	-	2	1	50	-	50
10	EE607T	Career Development - IV	2	-	-	0	Audit		
11	EE608P	Capstone Course – I **	-	-	2	1	50	-	50
<b>Total</b>			<b>17</b>	<b>2</b>	<b>10</b>	<b>22</b>	<b>325</b>	<b>475</b>	<b>800</b>

\*\* Capstone Course – I (Comprehensive knowledge gained in < Electrical Engineering >)

	Open Elective - II		Professional Elective-III
EE604T(i)	Monitoring & Testing of Electrical Machines	EE603T(i)	Micro-controller Application in Electrical Engineering
EE604T(ii)	Utilization of Electrical Energy	EE603T(ii)	Computer Applications in Power System
		EE603T(iii)	Electric Drives
		EE603T(iv)	Vehicle Dynamics
		EE603T(v)	Utilization of Electrical Energy

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