S.G.B.A.U. Amravati (scheme w.e.f. 2023-24)

Two Year Post Graduate Course in M.E (Electrical Power System) Full Time Pattern -Choice Based Credit system (CBCS)

Appendix -A

Semester -I

Sr No	Subject Code	Subject	Teaching Scheme					Examination Scheme								
			Hours /Week					Theory					Practical			
			Lecture	Tutorial	P/D	Total Hrs / Week	Credits	Duration of Paper (Hr)	Max. Marks Theory Paper	Max.Marks College Assessment	Total Marks	Min. Passing Marks	Max Marks		Total Marks	Min Passing Marks
													Int	Ext		
01	1EPS01	Generation Scheduling and Load Dispatch	3	--	--	3	3	3	80	20	100	50	--	--	--	--
02	1EPS02	Power System Modeling and Control	3	--	--	3	3	3	80	20	100	50	--	--	--	--
03	1EPS03	Professional Elective I	3	--	--	3	3	3	80	20	100	50	--	--	--	--
04	1EPS04	Professional Elective II	3	--	--	3	3	3	80	20	100	50	--	--	--	--
05	1EPS05	Research Methodology and IPR	2	--	--	2	2	--	--	50	50	25	--	--	--	--
06	1EPS06	Audit – I*	2	--	--	2	--	--	--	--	--	--	--	--	--	--
07	1EPS07	Power System Lab-I	--	--	8	8	4	--	--	--	--	--	50	50	100	50
		TOTAL	16	--	8	24	18	--	--	--	450	--	--	--	100	--
															550	--

1EPS03	Professional Elective -I	(i) Advanced Control System (ii) Advanced Electric Drives (iii) Digital Signal Processing & Applications
1EPS04	Professional Elective -II	(i) High Voltage Transmission System (ii) Flexible AC Transmission System (iii) Smart Grid Technology
1EPS06	Audit - I	(i) English for Research Paper Writing (ii) Disaster Management (iii) Constitution of India (iv) Stress Management by Yoga
1EPS07	Power System Lab-I	Minimum 10 experiments to be performed based on above syllabus

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Semester –II																
Sr No	Subject Code	Subject	Teaching Scheme					Examination Scheme								
			Hours /Week					Theory					Practical			
			Lecture	Tutorial	P/D	Total Hrs / Week	Credits	Duration of Paper (Hr)	Max. Marks Theory Paper	Max.Marks College Assessment	Total Marks	Min.Passing Marks	Max Marks		Total Marks	Min Passing Marks
													Int	Ext		
01	2EPS01	Advanced Protection of Power Systems	3	--	--	3	3	3	80	20	100	50	--	--	--	--
02	2EPS02	Power System Dynamics	3	--	--	3	3	3	80	20	100	50	--	--	--	--
03	2EPS03	Professional Elective III	3	--	--	3	3	3	80	20	100	50	--	--	--	--
04	2EPS04	Professional Elective IV	3	--	--	3	3	3	80	20	100	50	--	--	--	--
05	2EPS05	Audit II	2	--	--	2	--	--	--	--	--	--	--	--	--	--
06	2EPS06	Power System Lab-II	--	--	8	8	4	--	--	--	--	--	50	50	100	50
07	2EPS07	Seminar	--	--	4	4	2	--	--	--	--	--	50	--	50	25
		TOTAL	14	--	12	26	18	--	--	--	400	--	--	--	150	--
TOTAL															550	--

2EPS03	Professional Elective -III	(i) Power Quality Problems &Mitigations (ii) Power System Economics &Management (iii) Computer Aided Power System Analysis
2EPS04	Professional Elective -IV	(i) Artificial Neural Network (ii) Fuzzy Systems & Controls(iii) Advanced Optimization Techniques
2EPS05	Audit II*	(i) Sanskrit for Technical Knowledge (ii) Value Education (iii) Pedagogy Studies (iv) Personality Development through Life Enhancement Skills
2EPS06	Power System Lab-II	Minimum 10 experiments to be performed based on above syllabus

* Examination and evaluation for Audit –I and Audit - II shall be conducted at the Institute level.

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Semester –III																
Sr No	Subject Code	Subject	Teaching Scheme					Examination Scheme								
			Hours /Week					Theory					Practical			
			Lecture	Tutorial	P/D	Total Hrs / Week	Credits	Duration of Paper (Hr)	Max. Marks Theory Paper	Max.Marks College Assessment	Total Marks	Min. Passing Marks	Max Marks		Total Marks	Min Passing Marks
													Int	Ext		
01	3EPS01	Professional Elective -V	3	--	--	3	3	3	80	20	100	50	--	--	--	--
02	3EPS02	Open Elective	3	--	--	3	3	3	80	20	100	50	--	--	--	--
03	3EPS03	Dissertation Phase I	--	--	20	20	10	--	--	--	--	--	100	--	100	50
		TOTAL	6	--	20	26	16	--	--	--	200	--	--	--	100	--
TOTAL															300	--

3EPS01	Professional Elective -V	(i)) Electric Vehicles (ii) Renewable Energy Systems (iii) Embedded Systems
3EPS02	Open Elective	(i) Industrial Safety (ii) Cost Management of Engineering Projects (iii) Waste to Energy (iv) Business Analytics

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Semester –IV																
Sr No	Subject Code	Subject	Teaching Scheme					Examination Scheme								
			Hours /Week					Theory					Practical			
			Lecture	Tutorial	P/D	Total Hrs / Week	Credits	Duration of Paper (Hr)	Max. Marks Theory Paper	Max.Marks College Assessment	Total Marks	Min.Passing Marks	Max Marks		Total Marks	Min Passing Marks
													Int	Ext		
01	4EPS01	Dissertation Phase 2	--	--	32	32	16	--	--	--	--	--	100	200	300	150
		TOTAL	-	--	32	32	16	--	--	--		--	--	--	300	--
TOTAL															300	--

GRAND TOTAL (Semester I, II, III & IV)	1700

Semester III:

Title of the dissertation work to be submitted to the University on or before 15th Septemberfor regular examination and 15th of February for Supplementary Examination every year.

Dissertation Work - Phase I shall be evaluated for 100 marks by the committee members consisting of dissertation guide, Head of Department and subject expert appointed by the Principal of the college / Head of University Department.

Semester IV:

Dissertation Work - Phase II shall be evaluated for 100 marks by the committee members consisting of dissertation guide, Head of Department and subject expert appointed by the Principal of the college / Head of University Department

Candidate has to publish / present at least one research paper in referred journal / conference based on dissertation work.

Dissertation Work shall be evaluated for 200 marks by external examiner appointed by the University.

Note: Thesis of dissertation work must be submitted to the University on or before 30th April for Regular Exam and 30thSeptember for Supplementary Exam every year.

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