Specialization: Control System

1ST YEAR 1ST SEMESTER

Paper type	Code	Name of the Paper	Period per week				Credit
			L	T	P	Total	
CORE	EE 601	**Optimization Technique**	**4**	**0**	**0**	**4**	**4**
CORE	EE 603	**Digital Control**	**3**	**1**	**0**	**4**	**4**
CORE	EE 605	**System Identification & Estimation**	**3**	**1**	**0**	**4**	**4**
ELECTIVE	**	ELECTIVE I	*	*	**0**	**4**	**4**
PRACTICAL	EE 691	PG Lab I in Control System	0	0	3	3	2
TOTAL							**18**

List of Electives

- **EE631: Advanced Industrial Instrumentation**
- **EE633: Modern Control Theory**
- **EE635: Advanced Digital Signal Processing**
- **EE637: Advanced Power Electronics**

1ST YEAR 2ND SEMESTER

Paper type	Code	Name of the Paper	Period per week				Credit
			L	T	P	Total	
CORE	EE 602	**Optimal Control**	3	1	0	4	4
CORE	EE 604	**Non-linear Control**	3	1	0	4	4
ELECTIVE	**	ELECTIVE II	*	*	0	4	4
ELECTIVE	**	ELECTIVE III	*	*	0	4	4
ELECTIVE	**	ELECTIVE IV	*	*		4	4
PRACTICAL	EE 692	**PG Lab II** in Control System	0	0	3	3	2
SESSIONAL	EE 682	**Seminar**					2
SESSIONAL	EE684	**Term Paper Leading to Thesis**					2
Total							26

List of Electives

- **EE632: Intelligent Control**
- **EE634: Adaptive & Robust Control**
- **EE636: Renewable Power Generation & Control**
- **EE638: Active Circuit & System**
- **EE640: Numerical Methods**
- **EE642: Restructuring in Power System**
- **EE644: Modelling and Analysis of Electrical Machine**
- **EE646: Static Converters in Electric Drives**
- **EE648: Artificial Intelligent & Soft Computing**

2ND YEAR 3RD SEMESTER

Paper type	Paper no	Code	Name of the Paper	Period per week				Credit
				L	T	P	Total	
PROJECT		EE 791	**Dissertation I**					12

2ND YEAR 4th SEMESTER

Paper type	Paper no	Code	Name of the Paper	Period per week				Credit
				L	T	P	Total	
PROJECT		EE 792	**Dissertation II**					16

Summary of Credits

1st Semester	2nd Semester	3rd Semester	4th Semester	**Total**
18	26	12	16	**72**

Specialization: Power System

1ST YEAR 1ST SEMESTER

Paper type	Code	Name of the Paper	Period per week				Credit
			L	T	P	Total	
CORE	EE 601	**Optimization Technique**	**4**	**0**	**0**	**4**	**4**
CORE	EE 611	**Power Quality**	**3**	**1**	**0**	**4**	**4**
CORE	EE 613	**Power System Analysis**	**3**	**1**	**0**	**4**	**4**
ELECTIVE	**	ELECTIVE I	*	*	**0**	**4**	**4**
PRACTICAL	EE 693	PG Lab I in Power System	0	0	3	3	2
TOTAL							**18**

List of Electives

- **EE631: Advanced Industrial Instrumentation**
- **EE633: Modern Control Theory**
- **EE635: Advanced Digital Signal Processing**
- **EE637: Advanced Power Electronics**

1ST YEAR 2ND SEMESTER

Paper type	Code	Name of the Paper	Period per week				Credit
			L	T	P	Total	
CORE	EE 612	**Computer Applications to Power System**	3	1	0	4	4
CORE	EE 614	**Advanced Power System Protection**	3	1	0	4	4
ELECTIVE	**	ELECTIVE II	*	*	0	4	4
ELECTIVE	**	ELECTIVE III	*	*	0	4	4
ELECTIVE	**	ELECTIVE IV	*	*		4	4
PRACTICAL	EE 694	**PG Lab II** in Power System	0	0	3	3	2
SESSIONAL	EE 682	**Seminar**					2
SESSIONAL	EE684	**Term Paper Leading to Thesis**					2
Total							26

List of Electives

- **EE632: Intelligent Control**
- **EE634: Adaptive & Robust Control**
- **EE636: Renewable Power Generation & Control**
- **EE638: Active Circuit & System**
- **EE640: Numerical Methods**
- **EE642: Restructuring in Power System**
- **EE644: Modelling and Analysis of Electrical Machine**
- **EE646: Static Converters in Electric Drives**
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2ND YEAR 3RD SEMESTER

Paper type	Paper no	Code	Name of the Paper	Period per week				Credit
				L	T	P	Total	
PROJECT		EE 791	**Dissertation I**					12

2ND YEAR 4th SEMESTER

Paper type	Paper no	Code	Name of the Paper	Period per week				Credit
				L	T	P	Total	
PROJECT		EE 792	**Dissertation II**					16

Summary of Credits

1st Semester	2nd Semester	3rd Semester	4th Semester	**Total**
18	26	12	16	**72**