

Summary of Courses for the Undergraduate Studies

Semester-I

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	
1.	Chem 1107	Inorganic and Physical Chemistry	03	03	-	-	3.00
2.	Phy 1107	Physics-I	03	03	-	-	3.00
3.	Hum 1107	Economics	03	03			3.00
4.	Math 1107	Engineering Mathematics-I	04	04	-	-	4.00
5.	EEE 1113	Electrical Engineering-I	03	03	-	-	3.00
6.	Chem 1108	Chemistry Lab	-	-	1.5	0.75	0.75
7.	Phy 1108	Physics-I Lab	-	-	1.5	0.75	0.75
8.	EEE 1114	Electrical Engineering-I Lab	-	-	3.0	1.50	1.50
9.	IPE 1100	Engineering Graphics-I	-	-	3.0	1.50	1.50
		Total	16	16	9.0	4.50	20.50

No. of Theory Course = 05

Total Contact Hour = 25.00;

No. of Sessional Course = 04

Total Credit = 20.50;

Semester-II

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	
1.	Chem 1207	Industrial Chemistry	03	03	-	-	3.00
2.	Phy 207	Physics-II	03	03	-	-	3.00
3.	Hum 1207	Technical English and Sociology	03	03	-	-	3.00

4.	Math 1207	Engineering Mathematics-II	03	03	-	-	3.00
5.	EEE 1213	Electrical Engineering-II	03	03	-	-	3.00
6.	Phy 1208	Physics-II Lab	-	-	1.5	0.75	0.75
7.	EEE 1214	Electrical Engineering-II Lab	-	-	3.0	1.50	1.50
8.	IPE 1200	Engineering Graphics-II and CAD Lab	-	-	3.0	1.50	1.50
9.	IPES 1202	Shop Practice-I	-	-	1.5	0.75	0.75
		Total	15	15	9.0	4.50	19.50

No. of Theory Course = 05

Total Contact Hour = 24.00;

No. of Sessional Course = 04

Total Credit = 19.50;

Semester-III

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	
1.	Math 2307	Engineering Mathematics-III	04	04	-	-	4.00
2.	ME 2311	Thermodynamics and Heat Transfer	04	04	-	-	4.00
3.	ME 2313	Engineering Mechanics and Theory of Machines	04	04	-	-	4.00
4.	IPE 2307	Engineering Materials and Metallurgy	04	04	-	-	4.00
5.	IPE 2311	Engineering Economy	02	02	-	-	2.00
6.	ME 2312	Thermodynamics and Heat Transfer Lab	-	-	3.0	1.50	1.50
7.	IPE 2308	Engineering Materials and Metallurgy Lab	-	-	1.5	0.75	0.75
8.	IPES 2302	Shop Practice-II	-	-	1.5	0.75	0.75
		Total	18	18	6	3	21.00

No. of Theory Course = 05

Total Contact Hour = 24.00;

No. of Sessional Course = 03

Total Credit = 21.00;

Semester-IV

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	

1.	Hum 2407	Principles of Accounting	02	02	-	-	2.00
2.	CSE 2421	Basic Computer and Programming	03	03	-	-	3.00
3.	ME 2419	Mechanics of Solids	04	04	-	-	4.00
4.	IPE 2403	Probability and Statistics	04	04	-	-	4.00
5.	IPE 2407	Production Process-I	03	03	-	-	3.00
6.	Hum 2408	English Language Practice	-	-	1.5	0.75	0.75
7.	CSE 2422	Computer Programming Lab	-	-	2.0	1.00	1.00
8.	ME 2420	Solid Mechanics Lab	-	-	1.5	0.75	0.75
9.	IPE 2408	Production Process-I Lab	-	-	1.5	0.75	0.75
		Total	16	16	6.5	3.25	19.25

No. of Theory Course = 05

Total Contact Hour = 22.50;

No. of Sessional Course = 04

Total Credit = 19.25;

Semester-V

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	
1.	ME 3515	Fluid Mechanics and Machinery	03	03	-	-	3.00
2.	IPE 3501	Operations Management	03	03	-	-	3.00
3.	IPE 3503	Operations Research	04	04	-	-	4.00
4.	IPE 3507	Production Process-II	03	03	-	-	3.00
5.	IPE 3509	Product Design-I	03	03	-	-	3.00
6.	ME 3516	Fluid Mechanics and Machinery Lab	-	-	1.5	0.75	0.75
7.	IPE 3508	Production Process-II Lab	-	-	1.5	0.75	0.75
8.	IPE 3510	Product Design-I Lab	-	-	3.0	1.50	1.50
9.	IPE 3500	IPE Case Study			2.0	1.0	1.0
		Total	16	16	8.00	4.00	20.00

No. of Theory Course = 05

Total Contact Hour = 24.00;

No. of Sessional Course = 04

Total Credit = 20.00;

Semester-VI

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	
1.	Math 3607	Engineering Mathematics-IV	04	04			4.00
2.	ME 3617	Measurement and Instrumentation	03	03	-	-	3.00
3.	IPE 3603	Quality Control and Management	03	03	-	-	3.00
4.	IPE 3607	Machine Tools	04	04	-	-	4.00
5.	IPE 3609	Product Design-II	03	03	-	-	3.00
6.	Math 3608	Numerical Analysis Lab	-	-	1.5	0.75	0.75
7.	ME 3618	Measurement and Instrumentation Lab	-	-	1.5	0.75	0.75
8.	IPE 3600	Industrial Practice			4 weeks	1.00	1.00
9.	IPE 3608	Machine Tools Lab	-	-	1.5	0.75	0.75
10.	IPE 3610	Product Design-II Lab	-	-	3.0	1.50	1.50
		Total	17	17	7.5	4.75	21.75

No. of Theory Course = 05

Total Contact Hour = 24.50;

No. of Sessional Course = 05

Total Credit = 21.75;

Semester-VII

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	
1.	IPE 4700	Project and Thesis			3.0	1.50	1.50
2.	IPE 4701	Industrial and Business Management	03	03	-	-	3.00
3.	IPE 4705	Machine Tool Mechanism	03	03	-	-	3.00
4.	IPE 4707	CAD/CAM	03	03	-	-	3.00
5.	IPE 4709	Ergonomics and Safety Management	03	03	-	-	3.00
6.	IPE 4715(*)	Optional-I	03	03	-	-	3.00
7.	IPE 4706	Machine Tool Mechanism Lab	-	-	1.5	0.75	0.75

8.	IPE 4710	Ergonomics & Safety Lab	-	-	1.5	0.75	0.75
9.	IPE 4722	Industrial Simulation Lab	-	-	3.0	1.50	1.50
		Total	15	15	9.0	4.50	19.50

No. of Theory Course = 05

Total Contact Hour = 24.00;

No. of Sessional Course = 04

Total Credit = 19.50;

Semester-VIII

SL. No.	Course No.	Course Title	Theory		Sessional		Total Credit
			Contact Hour/Week	Credits	Contact Hour/Week	Credits	
1.	IPE 4800	Project and Thesis			06	3.00	3.00
2.	IPE 4801	Project and Environmental Management	03	03	-	-	3.00
3.	IPE 4803	Materials Handling and Maintenance Management	03	03	-	-	3.00
4.	IPE 4809	Control Theory and Automation	03	03	-	-	3.00
5.	IPE 4813	Cost and Management Accounting	03	03	-	-	3.00
6.	IPE 4815(*)	Optional-II	03	03			3.00
7.	IPE 4804	Materials Handling Lab	-	-	1.5	0.75	0.75
8.	IPE 4810	Control Theory and Automation Lab	-	-	1.5	0.75	0.75
9.	IPE 4820	Engineering Communication Seminar			2.0	1.00	1.00
		Total	15	15	11.0	5.50	20.50

No. of Theory Course = 05

Total Contact Hour = 26.00; No. of Sessional

Course = 04

Total Credit = 20.50;

Optional Courses offered in the Undergraduate Studies

Optional-I		Optional-II	
Course No.	Course Title	Course No.	Course Title
IPE 4715 (a)	Computer Integrated Manufacturing (CIM)	IPE 4815 (a)	CNC Machine Tools
(b)	Total Quality Management (TQM)	(b)	IT in Manufacturing

(c)	Microprocessor Programming and Interfacing	(c)	AI and Neuro-Fuzzy Theory
(d)	Intelligent Manufacturing	(d)	Organizational Behavior
(e)	Technology Management	(e)	Energy Management
(f)	Micro-Manufacturing		
(g)	Entrepreneurship Development and Micro Industries		
(h)	Machine Vision and Image Processing		
(i)	Supply Chain Management		