

Four Year Degree Course in Engineering & Technology
Course and Examination Scheme
I Semester B.E. Group – B (Common to all branches)

Subject Code	Subject	Teaching Scheme				Examination Scheme									
		Hrs. per week			No. of Credits	Theory						Practical			
		L	T	P		Duration of Paper (Hrs.)	Max. Marks ESE	Max. Marks		Total	Min. Passing Marks	Max. Marks TW	Max. Marks POE	Total	Min. Passing Marks
								Sessional							
MSE	IE														
IB 101	Applied Mathematics -I	5	1	0	6	3	80	10	10	100	40	--	--	--	--
IB 110	Applied Chemistry	3	1	0	4	3	80	10	10	100	40	--	--	--	--
IB 111	Basic Electrical Engineering	3	1	0	4	3	80	10	10	100	40	--	--	--	--
IB 112	Engineering Graphics	3	1	0	4	4	80	10	10	100	40	--	--	--	--
IB 113	Ethical Science	1	1	0	2	2	40	05	05	50	20	--	--	--	--
Laboratories															
IB 114	Applied Chemistry Laboratory	0	0	3	2	--	--	--	--	--	--	25	25	50	25
IB 115	Basic Electrical Engineering Laboratory	0	0	3	2	--	--	--	--	--	--	25	25	50	25
IB 116	Engineering Graphics Laboratory	0	0	3	2	--	--	--	--	--	--	25	25	50	25
IB 117	Workshop Practice – II	0	0	2	2	--	--	--	--	--	--	25	25	50	25
Total		15	5	11	--	--	--	--	--	450	--	--	--	200	--
Semester Total		31			28	650									

*Note: One Lecture/Tutorial of one hour equal to one Credit, One Practical/Lab. of Two hours equal to one Credit, One Practical/Lab. without theory paper of one hour equal to one Credit.

*Applied Mathematics - I (101) is a common paper to both Group A and B during I Semester only.

*During II Semester, Group B students will register for Group A subjects with App. Mathematics-II (102) replacing Applied Maths-I (101) as common paper to both Group A and B.

I / II Semester B. E. (Common for all branches)**Course Code: 113****Title of the Course: Ethical Science**

Course Scheme					Evaluation Scheme (Theory)				
Lecture	Tutorial	Practical	Periods/week	Credits	Duration of paper, hrs	MSE	IE	ESE	Total
1	1	0	2	2	2	05	05	40	50

Unit	Contents	Hours
I	1. Concept of culture and civilization 2. Applied humanities and social engineering 3. Socio-legal awareness: right to information (RTI), Public Interest Litigation (PIL), Intellectual Property Rights (IPR) and Patents, Lokpal and Lokayukta	06
II	1. Meaning and scope of Industrial Psychology and Industrial Sociology 2. Fatigue, Selection and Training of Workers, Motives for Work in Industry 3. Transactional Analysis	06
III	1. Sustainable development 2. Professional ethics 3. Organisational behavioural dynamics: Leadership in Industry	06
IV	1. Indian Constitution and Federal System 2. Fundamental rights and directive principles 3. Role of Bureaucracy in Modern Society	06
V	1. Industrial democracy 2. Works organisation: power, authority and status system; formal and informal organisation 3. Industrialisation and Urbanisation: Study of Slums	06
Total		30

Text & Reference Books:

1. A New Look into Social Science by Shabbir, Sheikh and Dwadashiwar
2. An Introduction to Sociology by Vidya Bhushan and Sachdeva
3. Social Science: The Indian Scene by Yogesh Atal
4. Applied Humanities by Rajni Tondon
5. A History of World Civilisations by J E Swain
6. Industrial Psychology by Haire Mason
7. Introduction to Constitution of India by Durga Das Basu
8. Industrial Sociology in India by N R Seth
9. Human Resource Development and Management by Dr A M Sheikh
10. The Economics of Sustainable Development by Surender Kumar