





#### **SEMESTER I**

Name of the Subject	Group	L-T-P	Credit
Engineering Mathematics-I	A & B	03-01-2000	4
Engineering Chemistry	A	3-0-0	3
Programming for Problem Solving	В	3-0-0	3
Basic Electrical Engineering	A	03-01-2000	4
Engineering physics	В	03-01-2000	4
Engineering Mechanics	A	3-0-0	3
English for Communication	В	3-0-0	3
Constitution of India	В	0-0-0	0
Engineering Chemistry Lab	A	0-0-1	1
Engineering Physics Lab	В	0-0-1	1
Basic Electrical Engineering Lab	A	0-0-1	1
Programming for Problem Solving Lab	В	0-0-2	2
Engineering Mechanics Lab	A	0-0-1	1
Engineering Graphics & Design	A	0-0-2	2
Workshop Practices	В	0-0-2	2
TOTAL	A or B	12-02-2005	19



#### **SEMESTER II**

Name of the Subject	Group	L-T-P	Credit
Engineering Mathematics–II	A & B	03-01-2000	4
Engineering Chemistry	В	3-0-0	3
Programming for Problem Solving	A	3-0-0	3
Basic Electrical Engineering	В	03-01-2000	4
Engineering physics	A	03-01-2000	4
Engineering Mechanics	В	3-0-0	3
English for Communication	A	3-0-0	3
Constitution of India	A	0-0-0	0
Engineering Chemistry Lab	В	0-0-1	1
Engineering Physics Lab	A	0-0-1	1
Basic Electrical Engineering Lab	В	0-0-1	1
Programming for Problem Solving Lab	A	0-0-2	2
Engineering Mechanics Lab	В	0-0-1	1
Engineering Graphics& Design	В	0-0-2	2
Workshop Practices	A	0-0-2	2
TOTAL	A or B	12-02-2005	19



## **SEMESTER –I (Group-A)**

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Engineering Chemistry	BSC	3	3	100	70	20	5	5
Engineering Mathematics–I	BSC	4	4	100	70	20	5	5
Basic Electrical Engineering	ESC	4	4	100	70	20	5	5
Engineering Mechanics	ESC	3	3	100	70	20	5	5
Engineering Chemistry Lab	BSC	1	2	50	35	5	5	5
Basic Electrical Engineering Lab	ESC	1	2	50	35	5	5	5
Engineering Mechanics Lab	ESC	1	2	50	35	5	5	5
Engineering Graphics& Design	ESC	2	4	50	35	5	5	5
TOTAL		19	24	600	420	100	40	40



## SEMESTER I (Group-B)

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
ngineering physics	BSC	4	4	100	70	20	5	5
Engineering Mathematics –I	BSC	4	4	100	70	20	5	5
Programming for Problem Solving	ESC	3	3	100	70	20	5	5
English for Communication	HSMC	3	3	100	70	20	5	5
Constitution of India	MC	0	2	50	35	10	2.5	2.5
Engineering physics Lab	BSC	1	2	50	35	5	5	5
Programming for Problem Solving Lab	ESC	2	4	50	35	5	5	5
Workshop Practices	ESC	2	4	50	35	5	5	5
TOTAL		19	26	600	420	105	37.5	37.5



## **SEMESTER II (Group-A)**

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Engineering physics	BSC	4	4	100	70	20	5	5
Engineering Mathematics – II	BSC	4	4	100	70	20	5	5
Programming for Problem Solving	ESC	3	3	100	70	20	5	5
English for Communication	HSMC	3	3	100	70	20	5	5
Constitution of India	MC	0	2	50	35	10	2.5	2.5
Engineering physics Lab	BSC	1	2	50	35	5	5	5
Programming for Problem Solving Lab	ESC	2	4	50	35	5	5	5
Workshop Practices	ESC	2	4	50	35	5	5	5
TOTAL		19	26	600	420	105	37.5	37.5



# SEMESTER -II (Group-B)

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Engineering Chemistry	BSC	3	3	100	70	20	5	5
Engineering Mathematics- II	BSC	4	4	100	70	20	5	5
Basic Electrical Engineering	ESC	4	4	100	70	20	5	5
Engineering Mechanics	ESC	3	3	100	70	20	5	5
Engineering Chemistry Lab	BSC	1	2	50	35	5	5	5
Basic Electrical Engineering Lab	ESC	1	2	50	35	5	5	5
Engineering Mechanics Lab	ESC	1	2	50	35	5	5	5
Engineering Graphics& Design	ESC	2	4	50	35	5	5	5
TOTAL		19	24	600	420	100	40	40



#### **SEMESTER-III**

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Engineering Mathematics - III	BSC	4	4	100	70	20	5	5
Biology for Engineers	BSC	3	3	100	70	20	5	5
Surveying &Geomatics	PCC	3	3	100	70	20	5	5
Mechanics of Solid	PCC	3	3	100	70	20	5	5
Introduction to Civil Engineering	HSMC	3	3	100	70	20	5	5
Environmental Science	MC	0	2	50	35	10	2.5	2.5
Surveying &Geomatics Lab	PCC	1	2	50	35	5	5	5
Mechanics of Solid	PCC	1	2	50	35	5	5	5
Computer Aided Civil Engineering Drawing	ESC	2	4	50	35	5	5	5
TOTAL		20	26	700	490	125	42.5	42.5



### **SEMESTER-IV**

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Material Testing & Evaluation	PCC	3	3	100	70	20	5	5
Engineering Geology	PCC	3	3	100	70	20	5	5
Fluid Mechanics	PCC	3	3	100	70	20	5	5
Structural Analysis - I	PCC	3	3	100	70	20	5	5
Geotechnical Engineering	PCC	3	3	100	70	20	5	5
Civil Engineering- Societal & Global Impact	HSMC	3	3	100	70	20	5	5
Material Testing & Evaluation	PCC	1	2	50	35	5	5	5
Engineering Geology Lab	PCC	1	2	50	35	5	5	5
Geotechnical Engineering Lab	PCC	1	2	50	35	5	5	5
Fluid Mechanics Lab	PCC	1	2	50	35	5	5	5
TOTAL		22	26	800	560	140	50	50



#### **SEMESTER V**

Name of the Subject	Type of Pape r	Credi t	Conta ct Hours Per Week	Total Mark s	End Term Theory/Practi cal Exam	Mid Term Theory/Practi cal Exam	CIA *	Attendan ce
Hydraulic Engineering	PCC	3	3	100	70	20	5	5
Structural Analysis II	PCC	3	3	100	70	20	5	5
Hydrology & Water Resource Engineering	PCC	3	3	100	70	20	5	5
Environmental Engineering-I	PCC	3	3	100	70	20	5	5
Open Elective I								
Humanities I								
Professional Practice, Law & Ethics	HSM C	3	3	100	70	20	5	5
Organizational Behavior								
Disaster Preparedness & Planning	PCC	3	3	100	70	20	5	5
Essence of Indian Knowledge Tradition	MC	0	2	50	35	10	2.5	2.5
Hydraulic Engineering Lab	PCC	1	2	50	35	5	5	5
Structural Analysis II Lab	PCC	1	2	50	35	5	5	5
Internship / Industrial Training/Vocatio nal Training (3-4 week)	PROJ	2	0	50	35	15	0	0
TOTAL		22	24	800	560	155	42.5	42.5



### **SEMESTER VI**

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Construction Engineering & Management	PCC	3	3	100	70	20	5	5
Transportation Engineering-I	PCC	3	3	100	70	20	5	5
Engineering Economics, Estimation & Costing	PCC	3	3	100	70	20	5	5
Elective I  Rock Mechanics  Foundation Engineering	PEC	3	3	100	70	20	5	5
Elective II  Environmental Engineering II  Rural water supply & Onsite Sanitation System	PEC	3	3	100	70	20	5	5
Elective III  Design of Steel Structure  Earthquake Engineering	PEC	3	3	100	70	20	5	5
Design of Concrete Structures-I	PCC	3	3	100	70	20	5	5
Transportation Engineering I Lab	PCC	1	2	50	35	5	5	5
TOTAL		22	23	750	525	145	40	40



### **SEMESTER VII**

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Elective IV								
Air and Noise Pollution and Control	PEC	3	3	100	70	20	5	5
Solid and hazardous Waste Management								
Elective V								
Design of Concrete Structure - II	PEC	3	3	100	70	20	5	5
Prestressed Concrete								
Open Elective II								
Metro System & Engineering	OEC	3	3	100	70	20	5	5
History of Science & Engineering								
River Engineering	PCC	3	3	100	70	20	5	5
Minor Project	PROJ	3	6	100	70	30	0	0
Summer Internship – II –(4-6 Week)	PROJ	3	0	100	70	30	0	0
TOTAL		18	18	600	420	140	20	20



# SEMESTER VIII

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/Practical Exam	Mid Term Theory/Practical Exam	CIA*	Attendance
Elective VI								
Bridge Engineering	PEC	3	3	100	70	20	5	5
Ground Water Engineering								
Elective VII								
Railway Engineering Traffic	PEC	3	3	100	70	20	5	5
Engineering and Management								
Open Elective III								
Soft Skills and Interpersonal Communication	op.g			100	70	20	۔	_
Human Resource Development and Organizational Behavior	OEC	3	3	100	70	20	5	5
Open Elective IV Civil Engineering								
Design-I Geographic Information Systems and Science	OEC	3	3	100	70	20	5	5
Major Project	PROJ	8	16	200	140	60	0	0
Extra- Curricular/ Co- Curricular Activity	PROJ	0	0	100	70	30	0	0
TOTAL		20	28	700	490	170	20	20