



The following tables show the final scheme of all the programs as per the Rajasthan Technical University curriculum

B.Tech : Electrical Engineering 3rd Year –V Semester

THEORY											
SN	Categ ory	Course		Contact hrs/week			Marks				Cr
		Code	Title								
				L	T	P	Exm Hrs	IA	ETE	Total	
1	ESC	5EE3-01	Electrical Materials	2	0	0	2	20	80	100	2
2	PCC/ PEC	5EE4-02	Power System - I	3	0	0	3	30	120	150	3
3		5EE4-03	Control System	3	0	0	3	30	120	150	3
4		5EE4-04	Microprocessor	3	0	0	3	30	120	150	3
5		5EE4-05	Electrical Machine Design	3	0	0	3	30	120	150	3
6		Professional Elective I (any one)	2	0	0	2	20	80	100	2	
		5EE5-11	Restructured Power System.								
		5EE5-12	Electromagnetic Wave.								
		5EE5-13	Digital Control System.								
		Sub Total		16	0	0		160	640	800	16
PRACTICAL & SESSIONAL											
7	PCC	5EE4-21	Power System - I Lab	0	0	2	2	30	20	50	1
8		5EE4-22	Control System Lab	0	0	2	2	30	20	50	1
9		5EE4-23	Microprocessor Lab	0	0	2	2	30	20	50	1
10		5EE4-24	System Programming Lab	0	0	2	2	30	20	50	1
11	PSIT	5EE7-30	Industrial Training	0	0	1		75	50	125	2.5
12	SODE CA	5EE8-00	Social Outreach, Discipline & Extra Curricular Activities						25	25	0.5
		Sub- Total		0	0	9		195	155	350	7
		TOTAL OF V SEMESTER		16	0	9		355	795	1150	23



B. Tech.: Electrical Engineering 4th Year – VII & VIII Semester

Course	Electrical Engineering					Code	EE
SEMVII	7	Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
7EE1A	Power System Planning	3			20	80	100
7EE2A	Power System Analysis	3	1		20	80	100
7EE3A	Artificial Intelligence Techniques	3			20	80	100
7EE4A	Non Conventional Energy Sources	3			20	80	100
7EE5A	Power System Engineering	3	1		20	80	100
7EE6.1A	Electromagnetic Field Theory	3	1	Theory Subject	20	80	100
7EE6.2A	Computer Aided Design of Electrical Machines						
7EE6.3A	Economic Operation of Power Systems						
7EE7A	Power System Planning Lab	Practical laboratory courses		2	45	30	75
7EE8A	Power System Modelling & Simulation Lab			2	45	30	75
7EE9A	Industrial Economics & Management			2	30	20	50
7EETR	Practical Training & Industrial visit			2		100	100
7EEPR	Project-1			2	50		50
7EEDC	Discipline & Extra Curricular Activity						50
	Total	18	2	10			1000

SEM VIII	8	Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
8EE1A	EHV AC/DC Transmission	3	1	Theory Subject	20	80	100
8EE2A	Electric Drives and Their Control	3	1		20	80	100
8EE3A	Protection of Power System	3			20	80	100
8EE4.1A	Utilization of Electrical Power	3			20	80	100
8EE4.2A	FACTS Devices & Their Applications						
8EE4.3A	Power System Transients						
8EE5A	Computer Based Power System Lab	Practical laboratory courses		3	60	40	100
8EE6A	Electrical Drives and Control Lab			3	60	40	100
8EE7A	High Voltage Engineering Lab			2			50
8EEPR	Project-2			2	120	80	200
8EESM	Seminar			2	60	40	100
8EEDC	Discipline & Extra Curricular Activity						50
	Total	12	2	12			1000



B.Tech. : Computer Science & Engineering

3rd Year – V Semester

THEORY											
S N	Cate g ory	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Ex m Hrs	IA	ETE	Total	
1	ES C	5CS3-01	Information Theory & Coding	2	0	0	2	20	80	100	2
2	PCC / PEC	5CS4-02	Compiler Design	3	0	0	3	30	120	150	3
3		5CS4-03	Operating System	3	0	0	3	30	120	150	3
4		5CS4-04	Computer Graphics & Multimedia	3	0	0	3	30	120	150	3
5		5CS4-05	Analysis of Algorithms	3	0	0	3	30	120	150	3
6			Professional Elective 1: (any one)	2	0	0	2	20	80	100	2
7		5CS5-11	Wireless Communication								
		5CS5-12	Human-Computer Interaction								
		5CS5-13	Bioinformatics								
	ES C	5CS3-01	Information Theory & Coding	2	0	0	2	20	80	100	2
		Sub Total		16	0	0		160	640	800	16
PRACTICAL & SESSIONAL											
8	PCC	5CS4-21	Computer Graphics & Multimedia Lab	0	0	2	2	30	20	50	1
9		5CS4-22	Compiler Design Lab	0	0	2	2	30	20	50	1
10		5CS4-23	Analysis of Algorithms Lab	0	0	2	2	30	20	50	1
11		5CS4-24	Advance Java Lab	0	0	2	2	30	20	50	1
12	PSI T	5CS7-30	Industrial Training	0	0	1		75	50	125	2.5
13	SO DE CA	5CS8-00	Social Outreach, Discipline &Extra Curricular Activities						25	25	0.5
		Sub- Total		0	0	9		195	155	350	7
		TOTAL OF V SEMESTER		16	0	9		355	795	1150	23



B.Tech. : Computer Science & Engineering 4th Year – VII & VIII Semester

Sem- VII	Computer Science and Engineering	Teaching Hrs			Exm Hrs	Max. Marks			Comments
Course Code	Subject Name (Revised)	L	T	P		IA	TE	TOTAL	Common to
7CS1A	Cloud Computing	3	-		3	20	80	100	
7CS2A	Information System Security	3			3	20	80	100	CS, IT
7CS3A	Data Mining & Ware Housing	3			3	20	80	100	CS, IT
7CS4A	Computer Aided Design for VLSI	3	-		3	20	80	100	
7CS5A	Compiler Construction	3			3	20	80	100	
7CS6.1A	Advance DataBase Management Systems	3	-		3	20	80	100	
7CS6.2A	Robotics								
7CS6.3A	Data Compression Techniques								
7CS7A	Web Development Lab			2		30	20	50	
7CS8A	VLSI Physical Design Lab			3		45	30	75	
7CS9A	Compiler Design Lab			3		45	30	75	
7CSPR	Project-I			2		50		50	CS, IT
7CSTR	Practical Training*			2			100	100	CS, IT
7CSDC	Discipline & Extra Curricular Activities							50	CS, IT
		18	0	12				1000	
Sem- VIII	Computer Science and Engineering	Teaching Hrs			Exm Hrs	Max. Marks			Comments
Course Code	Subject Name (Revised)	L	T	P		IA	TE	TOTAL	Common to
8CS1A	Mobile Computing	3			3	20	80	100	CS, IT
8CS2A	Digital Image Processing	3	-		3	20	80	100	CS, IT
8CS3A	Distributed Systems	3			3	20	80	100	
8CS4.1A	Hardware Testing & Fault Tolerance	3	-		3	20	80	100	CS, IT
8CS4.2A	Real Time Systems								CS, IT
8CS4.3A	Information Retrieval								CS, IT
8CS5A	Unix Network Programming & Simulation Lab			3		60	40	100	
8CS6A	FPGA Lab.			3		60	40	100	
8CS7A	Digital Image Processing lab			2		30	20	50	CS, IT
8CSPR	Project-II			2		120	80	200	CS, IT



8CSSM	Seminar			2		60	40	100	CS, IT
8CSDC	Discipline & Extra Curricular Activities							50	CS, IT

B.Tech. : Civil Engineering 3rd Year –V Semester

THEORY

SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	ESC	5CE3-01	Construction Technology & Equipments	2	0	0	2	20	80	100	2
2	PCC/PEC	5CE4-02	Structural Analysis-I	2	0	0	2	20	80	100	2
3		5CE4-03	Design of Concrete Structures	3	0	0	3	30	120	150	3
4		5CE4-04	Geotechnical Engineering	3	0	0	3	30	120	150	3
5		5CE4-05	Water Resource Engineering	2	0	0	2	20	80	100	2
6		Departmental Elective-I:		2	0	0	2	20	80	100	2
		5CE5-11	Air & Noise Pollution and Control								
		5CE5-12	Disaster Management								
		5CE5-13	Town Planning								
7		Departmental Elective-II:		2	0	0	2	20	80	100	2
		5CE5-14	Repair and Rehabilitation of Structures								
		5CE5-15	Ground Improvement Techniques								
		5CE5-16	Energy Science & Engineering								
		Sub Total		16	0	0		160	640	800	16

PRACTICAL & SESSIONAL

8	PCC	5CE4-21	Concrete Structures Design	0	0	3	3	45	30	75	1.5
9		5CE4-22	Geotechnical Engineering Lab	0	0	3	3	45	30	75	1.5
10		5CE4-23	Water Resource Engineering Design	0	0	2	2	30	20	50	1
11	PSIT	5CE7-30	Industrial Training	0	0	1		75	50	125	2.5
12	SODE CA	5CE8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	25	25	0.5
		Sub- Total		0	0	9		195	155	350	7
		TOTAL OF V SEMESTER		16	0	9		355	795	1150	23



B. Tech.: Civil Engineering 4th Year – VII & VIII Semester

BRANCH CODE	Civil Engineering						
			Hrs. / Week				
SEM - VII	Title	L	T	P	IA	Exam	Total
7CE1A	Water Resource Engineering-I	3		0	20	80	100
7CE2A	Design of Steel Structures-I	3		0	20	80	100
7CE3A	Design of Concrete Structures-II	3		0	20	80	100
7CE4A	Transportation Engineering-II	3		0	20	80	100
7CE5A	Application of Numerical Methods in Civil Engineering	3		0	20	80	100
7CE6.1A	Advance Transportation Engineering	3		0	20	80	100
7CE6.2A	Design of Prestress Concrete Structures						
7CE6.3A	Rural Water Supply & Sanitation						
	Total	18					600
7CE7A	Design of Water Resource Structures-I			2	30	20	50
7CE8A	Steel Structures Design-I	0	0	3	30	20	50
7CE9A	Concrete Structures Design-II			3	30	20	50
7CE10A	Application of Numerical Methods in Civil Engineering Lab	0	0	3	30	20	50
7CETR	Practical Training & Industrial Visit			2		100	
7CEPR	Project-I			2	50		
7CEDC	Discipline & Extra Curricular Activity						50
	Total						400
BRANCH CODE	Civil Engineering						
			Hrs. / Week				
SEM - VIII	1	L	T	P	IA	Exam	Total
8CE1A	Water Resource Engineering-II	3		0	20	80	100
8CE2A	Design of Steel Structures-II	3		0	20	80	100
8CE3A	Project Planning & Construction Management	3		0	20	80	100
8CE4.1A	Bridge Engineering	3		0	20	80	100
8CE4.2A	Advance Foundation Engineering						
8CE4.3A	Earthquake Resistant construction and design						
	Total	12					400
8CE5A	Design of Water Resource Structures-II	0	0	3	30	20	50
8CE6A	Professional Practice & Estimating	0	0	3	30	20	50
8CE7A	Steel Structures Design-II			3	30	20	50
8CE8A	Design of Foundations			2	30	20	50
8CE9A	Structural Analysis by Matrix Methods	0	0	2	30	20	50
8CESM	Seminar	0	0	2	60	40	
8CEPR	Project-II	0	0	2	120	80	
8CEDC	Discipline & Extra Curricular Activity						50
	Total						600



	Grand Total					1000
--	--------------------	--	--	--	--	-------------

M. Tech. (Structural Engineering) : Civil Engineering Department

SUBJECT/ SEMESTER	Teaching Hrs/week		Examination Scheme		
	L	T/P	Max. Marks		Total Marks
			Theory	Sessional	
FIRST SEMESTER					
MSE101 : Advanced Structural Analysis	3	1	100	25	125
MSE102 : Numerical Methods & Analysis	3	1	100	25	125
MSE103 : Advanced Design of Concrete Structures	3	1	100	25	125
MSE104 : Advanced Design of Steel Structures	3	1	100	25	125
MSE105 : Computer Aided Design Lab	-	3	40	60	125
TOTAL	12	07	440	160	600
SECOND SEMESTER					
MSE201 : Structural Dynamics	3	1	100	25	125
MSE202 : Advanced Strength of Materials	3	1	100	25	125
MSE203 : Advanced Concrete Technology	3	1	100	25	125
MSE204 : Elective-I	3	1	100	25	125
MSE205 : Material Testing, Experimental Methods & Quality Control	-	3	40	60	100
TOTAL	12	07	440	160	600
THIRD SEMESTER					
MSE301 : Finite Element Analysis	3	1	100	25	125
MSE302 : Elective-II	3	1	100	25	125
MSE303 : Seminar	-	4	60	90	150
MSE304 : Dissertation Part I	-	4	-	100	100
TOTAL	06	10	260	240	500
FOURTH SEMESTER					
MSE404 : Dissertation Part II	-	16	-	500	500
TOTAL	-	16	-	500	500
GRAND TOTAL	30	40	1170	1030	2200



MBA (Third & Fourth Semester) III Semester MBA

In Semester MBA					
Code No.	Name of Subject	Number of Hours Per week	Marks		
			Internal/Minimum Pass Marks	External/Minimum Pass Marks	Total
Compulsory Subjects					
M-301	Summer Training Project Report*	2		100/50	100
M-302	Business Policy & Strategic Management	4	30/12	70/28	100
Optional Subjects					
Six Subjects (Four Major & Two Minor) from the groups given below. For example a finance major & Marketing minor student will have to opt for M-303,304,305 & 306 and any two from M-307, 308,309,310)		4	30/12	70/28	100
		4	30/12	70/28	100
		4	30/12	70/28	100
		4	30/12	70/28	100
		4	30/12	70/28	100
		4	30/12	70/28	100
Total		30	180	590	800

* The summer training project report will be evaluated on internal and external basis. Evaluation and presentation of the report will be done by internal and external examiners. There will be external examiner to be selected by the Director/Principal of the institute from the panel of examiners, proposed by BOS and approved by Vice Chancellor. The concerned institute will bear the traveling, remuneration, DA and other incidental expenditure of external examiner with recourse to RTU.

IV Semester MBA

Code No.	Name of Subject	Number of Hours per week	Marks		
			Internal/Minimum Pass Marks	External/Minimum Pass Marks	Total
Compulsory Subjects					
M-401	Business Ethics and Ethos	4	30/12	70/28	100
M-402	Project Management	4	30/12	70/28	100
M-403	Business Laws	4	30/12	70/28	100
M-404	Project Study*	4		200/100	200
Optional Subjects					
Three subject (2Major & 1 Minor) from the groups given below. For example a Finance major & Marketing minor student will have to opt M-405, 406 and any one from M-407, 408.		4	30/12	70/28	100
		4	30/12	70/28	100
		4	30/12	70/28	100
Total		28	180	620	800

* Paper M-404 is a paper on project study. The project is real life short term corporate study. The candidate will be allotted the project by the faculty of the institute in consultation with the director/principal of the institute. There will be external examiner to be selected by the Director/Principal of the institute from the panel of examiners, proposed by BOS and approved by Vice Chancellor. The concerned institute will bear the traveling, remuneration, DA and other incidental expenditure of external examiner with recourse to RTU.