



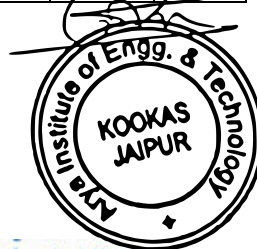
RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme B.Tech. : Electrical Engineering 2nd Year - III Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	BSC	3EE2-01	Advance Mathematics	3	0	0	3	30	120	150	3
2	HSMC	3EE1-02/ 3EE1-03	Technical Communication / Managerial Economics and Financial Accounting	2	0	0	2	20	80	100	2
3	ESC	3EE3-04	Power generation Process	2	0	0	2	20	80	100	2
4	PCC	3EE4-05	Electrical Circuit Analysis	3	0	0	3	30	120	150	3
5		3EE4-06	Analog Electronics	3	0	0	3	30	120	150	3
6		3EE4-07	Electrical Machine - I	3	0	0	3	30	120	150	3
7		3EE4-08	Electromagnetic Field	2	0	0	2	20	80	100	2
			Sub Total	18	0	0		180	720	900	18
PRACTICAL & SESSIONAL											
8	PCC	3EE4-21	Analog Electronics Lab	0	0	2		30	20	50	1
9		3EE4-22	Electrical Machine-I Lab	0	0	4		60	40	100	2
10		3EE4-23	Electrical circuit design Lab	0	0	4		60	40	100	2
13	PSIT	3EE7-30	Industrial Training	0	0	2				50	1
14	SODE CA	3EE8-00	Social Outreach, Discipline & Extra Curricular Activities							25	0.5
			Sub- Total	0	0	12		150	100	325	6.5
			TOTAL OF III SEMESTER	18	0	12		330	820	1225	24.5

L: Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

ETE: End Term Exam, **IA:** Internal Assessment



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Rajasthan Technical University, Kota

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

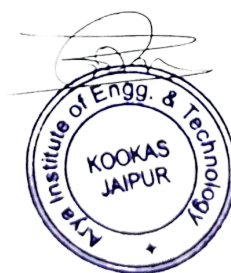
B.Tech: Electrical Engineering

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	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 Semester

SN	Course Type	Course		Hours per Week			Marks				Cr
		Code	Name	L	T	P	Exm Hrs	IA	ETE	Total	
1	PEC	7EE5-11	Wind and Solar Energy Sys-tems.	3	0	0	3	30	120	150	3
2		7EE5-12	Power Quality and FACTS								
3		7EE5-13	Control System Design.								
4	OE		Open Elective-I	3	0	0	3	30	120	150	3
	SUB TOTAL			6	0	0		60	240	300	6
PRACTICAL & SESSIONAL											
5	PCC	7EE4-21	Embedded Systems Lab	0	0	4	2	60	40	100	2
6	PCC	7EE4-22	Advance control system lab	0	0	4	2	60	40	100	2
7	PSIT	7EE7-30	Industrial Training	1	0	0		75	50	125	2.5
8		7EE7-40	Seminar	2	0	0		60	40	100	2
9	SODE-CA	7EE8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	25	25	0.5
			SUB TOTAL	3	0	8		255	195	450	6
			TOTAL OF VII SEMESTER	9	0	8		315	435	750	15



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

THEORY											
SN	Course Type	Course		Hours per Week			Marks				Cr
		Course Code	Course Name	L	T	P	Exm Hrs	IA	ETE	Total	
1	PEC	8EE4-11	HVDC Transmission Sys- tem.	3	0	0	3	30	120	150	3
2		8EE4-12	Line Commutated and ac- tive rectifiers.								
3		8EE4-13	Advanced Electric Drives.								
4	OE		Open Elective-II	3	0	0	3	30	120	150	3
				6	0	0		60	240	300	6
PRACTICAL & SESSIONAL											
			SUB TOTAL	6	0	0		60	240	300	6
5	PCC	8EE4-21	Energy Systems Lab	0	0	4	3	60	40	100	2
6	PSIT	8EE7-50	Project	3	0	0		210	140	350	7
7	SODE - CA	8EE8-00	SODECA	0	0	0			25	25	0.5
			SUB TOTAL	3	0	4		270	205	475	9.5
			TOTAL OF VIII SEMESTER	9	0	4		330	445	775	15.5





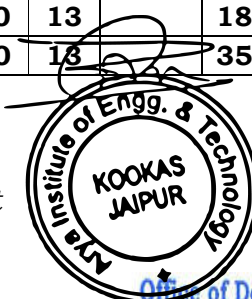
RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme B.Tech. : Computer Science & Engineering 2nd Year - III Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	BSC	3CS2-01	Advanced Engineering Mathematics	3	0	0	3	30	120	150	3
2	HSMC	3CS1-02/ 3CS1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	20	80	100	2
3	ESC	3CS3-04	Digital Electronics	3	0	0	3	30	120	150	3
4	PCC	3CS4-05	Data Structures and Algorithms	3	0	0	3	30	120	150	3
5		3CS4-06	Object Oriented Programming	3	0	0	3	30	120	150	3
6		3CS4-07	Software Engineering	3	0	0	3	30	120	150	3
			Sub Total	17	0	0		170	680	850	17
PRACTICAL & SESSIONAL											
7	PCC	3CS4-21	Data Structures and Algorithms Lab	0	0	3		45	30	75	1.5
8		3CS4-22	Object Oriented Programming Lab	0	0	3		45	30	75	1.5
9		3CS4-23	Software Engineering Lab	0	0	3		45	30	75	1.5
10		3CS4-24	Digital Electronics Lab	0	0	3		45	30	75	1.5
11	PSIT	3CS7-30	Industrial Training	0	0	1		0	0	50	1
12	SODE CA	3CS8-00	Social Outreach, Discipline & Extra Curricular Activities							25	0.5
			Sub- Total	0	0	13		180	120	375	7.5
			TOTAL OF III SEMESTER	17	0	13		350	800	1225	24.5

L: Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

ETE: End Term Exam, **IA:** Internal Assessment

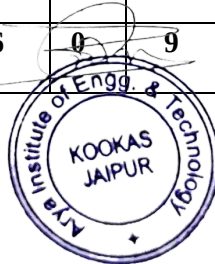


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B.Tech : Computer Science & Engineering

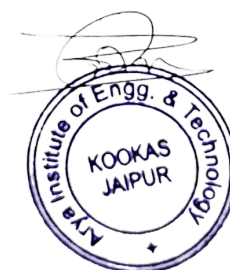
3rd Year – V Semester

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 Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	PCC	7CS4-01	Internet of Things	3	0	0	3	30	120	150	3
2	OE		Open Elective - I	3	0	0	3	30	120	150	3
		Sub Total		6	0	0	6	60	240	300	6
PRACTICAL & SESSIONAL											
3	PCC	7CS4-21	Internet of Things Lab	0	0	4	2	60	40	100	2
4	PCC	7CS4-22	Cyber Security Lab	0	0	4	2	60	40	100	2
6	PSIT	7CS7-30	Industrial Training	1	0	0				125	2.5
7	PSIT	7CS7-40	Seminar	2	0	0				100	2
8	SODE CA	7CS8-00	Social Outreach, Discipline &Extra Curricular Activities							25	0.5
		Sub- Total		0	0	10	4	120	80	450	9
		TOTAL OF VII SEMESTER		6	0	10	10	180	320	750	15





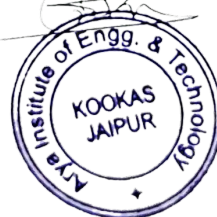
B.Tech : Computer Science Engineering 4th Year – VIII Semester

THEORY

SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title				Exm Hrs	IA	ETE	Total	
				L	T	P					
1	PCC/PEC	8CS4-01	Big Data Analytics	3	0	0	3	30	120	150	3
2	OE		Open Elective - II	3	0	0	3	30	120	150	3
		Sub Total		6	0	0	6	60	240	300	6

PRACTICAL & SESSIONAL

3	PCC	8CS4-21	Big Data Analytics Lab	0	0	2	2	30	20	50	1
4	PCC	8CS4-22	Software Testing and Validation Lab	0	0	2	2	30	20	50	1
5	PSIT	8CS7-0	Project	3	0	0				450	7
6	SODE CA	8CS8-00	Social Outreach, Discipline & Extra Curricular Activities							25	0.5
		Sub- Total		0	0	4	4	120	80	475	9.5
		TOTAL OF VIII SEMESTER		6	0	4	10	180	320	775	15.5





RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme

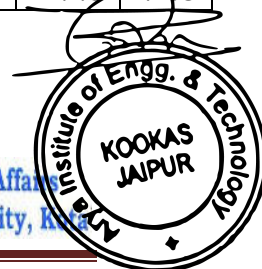
B.Tech. : Mechanical Engineering 2nd Year - III Semester

THEORY											
SN	Categ ory	Course		Contact hrs/week			Marks				Cr
		Code	Title								
				L	T	P	Exm Hrs	IA	ETE	Total	
1	BSC	3ME2-01	Advance Engineering Mathematics-I	3	0	0	3	30	120	150	3
2	HSMC	3ME1-02/ 3ME1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	20	80	100	2
3	ESC	3ME3-04	Engineering Mechanics	2	0	0	2	20	80	100	2
4	PCC	3ME4-05	Engineering Thermodynamics	3	0	0	3	30	120	150	3
5		3ME4-06	Materials Science and Engineering	3	0	0	3	30	120	150	3
6		3ME4-07	Mechanics of Solids	3	1	0	3	40	160	200	4
			Sub Total	16	1	0		170	680	850	17
PRACTICAL & SESSIONAL											
7	PCC	3ME4-21	Machine drawing practice	0	0	3		45	30	75	1.5
8		3ME4-22	Materials Testing Lab	0	0	3		45	30	75	1.5
9		3ME4-23	Basic Mechanical Engineering Lab	0	0	3		45	30	75	1.5
10		3ME4-24	Programming using MATLAB	0	0	3		45	30	75	1.5
11	PSIT	3ME7-30	Industrial Training	0	0	1		0	0	50	1
12	SODE CA	3ME8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	0	25	0.5
			Sub- Total	0	0	13		180	120	375	7.5
		TOTAL OF III SEMESTER		16	1	13		350	800	1225	24.5

L: Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

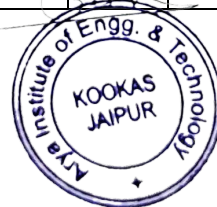
ETE: End Term Exam, **IA:** Internal Assessment

Office of Dean Academic Affairs
Rajasthan Technical University, Kota



B.Tech : Mechanical 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	5ME3-01	Mechatronic Systems	2	0	0	2	20	80	100	2	
2	PCC/ PEC	5ME4-02	Heat Transfer	3	0	0	3	30	120	150	3	
3		5ME4-03	Manufacturing Technology	3	0	0	3	30	120	150	3	
4		5ME4-04	Design of Machine Elements I	3	0	0	3	30	120	150	3	
5		5ME4-05	Principles of Management	2	0	0	2	20	80	100	2	
6		Professional Elective I (any one)			3	0	0	3	30	120	150	3
		5ME5-11	Steam Engineering									
		5ME5-12	Automobile Engineering									
		5ME5-13	Non Destructive Evaluation & Testing									
		Sub Total			16	0	0		160	640	800	16
PRACTICAL & SESSIONAL												
7	ESC	5ME3-21	Mechatronic Lab	0	0	2	2	30	20	50	1	
8	PCC	5ME4-22	Heat Transfer lab	0	0	2	2	30	20	50	1	
9		5ME4-23	Production Engineering Lab	0	0	2	2	30	20	50	1	
10		5ME4-24	Machine Design Practice I	0	0	2	2	30	20	50	1	
11	PSIT	5ME7-30	Industrial Training	0	0	1	1	75	50	125	2.5	
12	SODE CA	5ME8-00	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 : Mechanical Engineering

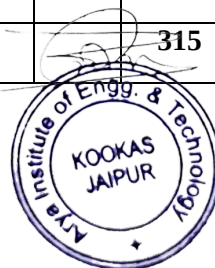
4th Year – VII Semester

THEORY

SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	PEC	7ME5-11	I. C. Engines	3	0	0	3	30	120	150	3
2		7ME5-12	Operations Research								
3		7ME5-13	Turbomachines								
4	OE		Open Elective-I	3	0	0	3	30	120	150	3
			Sub Total	6	0	0		60	240	300	6

PRACTICAL & SESSIONAL

5	PCC	7ME4-21	FEA Lab	0	0	3	3	45	30	75	1.5
6		7ME4-22	Thermal Engineering Lab II	0	0	3	3	45	30	75	1.5
7		7ME4-23	Quality Control Lab	0	0	2	2	30	20	50	1
8	PSIT	7ME7-30	Industrial Training *	1	0	0	1	75	50	125	2.5
9		7ME7-40	Seminar *	2	0	0	2	60	40	100	2
10	SODE CA	7ME8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	25	25	0.5
			Sub- Total	3	0	8		255	195	450	9
			TOTAL OF VII SEMEESTER	9	0	8		315	435	750	15



B. Tech : Mechanical Engineering

4th Year – VIII Semester

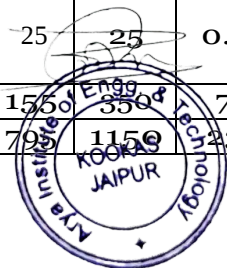
THEORY											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ET E	Total	
1	PEC	8ME5-11	Hybrid and Electric Vehicles	3	0	0	3	30	120	150	3
2		8ME5-12	Supply and Operations Management								
3		8ME5-13	Additive Manufacturing								
4	OE		Open Elective - II	3	0	0	3	30	120	150	3
			Sub Total	6	0	0		60	240	300	6
PRACTICAL & SESSIONAL											
5	PCC	8ME4-21	Industrial Engineering Lab	0	0	2	2	30	20	50	1
6		8ME4-22	Metrology Lab	0	0	2	2	30	20	50	1
7	PSIT	8ME7-50	Project *#	3	0	0	3	210	140 #	350	7
8	SODE CA	8ME8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	25	25	0.5
			Sub- Total	3	0	4		270	205	475	9.5
			TOTAL OF VIII SEMEESTER	9	0	4		330	445	775	15.5



B.Tech : Electronics & Communication Engineering

3rd Year –V Semester

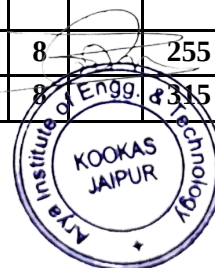
THEORY											
SN	Categor ory	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	ESC	5EC 3-01	Computer Architecture	2	0	0	2	20	80	100	2
2	PCC/ PEC	5EC 4-02	Electromagnetics Waves	3	0	0	3	30	120	150	3
3		5EC 4-03	Control system	3	0	0	3	30	120	150	3
4		5EC 4-04	Digital Signal Processing	3	0	0	3	30	120	150	3
5		5EC 4-05	Microwave Theory & Techniques	3	0	0	3	30	120	150	3
6		Professional Elective I (any one)		2	0	0	2	20	80	100	2
		5EC 5-11	Bio-Medical Electronics								
		5EC 5-12	Embedded Systems								
		5EC 5-13	Probability Theory & Stochastic Process								
		5EC 5-14	Satellite Communication								
			Sub Total		16	0	0		160	640	800
PRACTICAL & SESSIONAL											
7	PCC	5EC 4-21	RF Simulation Lab	0	0	3	2	45	30	75	1.5
8		5EC 4-22	Digital Signal Processing Lab	0	0	3	2	45	30	75	1.5
9		5EC 4-23	Microwave Lab	0	0	2	2	30	20	50	1
10	PSIT	5EC 7-30	Industrial Training	0	0	1		75	50	125	2.5
11	SODE CA	5EC 8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0			25	25	0.5
		Sub- Total		0	0	9		195	150	345	7
		TOTAL OF V SEMESTER		16	0	9		355	795	1150	23



B.Tech : Electronics & Communication Engineering

4th Year – VII Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	PEC	Program Elective		3	0	0	3	30	120	150	3
		7EC5-11	VLSI Design								
		7EC5-12	Mixed Signal Design								
		7EC5-13	CMOS design								
2	OE		Open Elective-I	3	0	0	3	30	120	150	3
			Sub Total	6	0	0		60	240	300	6
PRACTICAL & SESSIONAL											
3	PCC	7EC4-21	VLSI Design Lab	0	0	4	2	60	40	100	2
4		7EC4-22	Advance communication lab (MATLAB Simulation)	0	0	2	2	30	20	50	1
5		7EC4-23	Optical Communication Lab	0	0	2	2	30	20	50	1
6	PSIT	7EC7-30	Industrial Training	1	0	0		75	50	125	2.5
7		7EC7-40	Seminar	2	0	0		60	40	100	2
8	SODECA	7EC8-00	Social Outreach, Discipline & Extra Curricular Activities					0	25	25	0.5
			Sub Total	3	0	8		255	195	450	9
			TOTAL of VII SEMESTER	9	0	8		315	435	750	15



B.Tech : Electronics & Communication Engineering

4th Year – VIII Semester

THEORY											
SN	Category	Course Code	Course Title	Contact hrs/week			Marks				Cr
				L	T	P	Exm Hrs	IA	ETE	Total	
1	PEC	Program Elective		3	0	0	3	30	120	150	3
		8EC5-11	Artificial Intelligence And Expert Systems								
		8EC5-12	Digital Image and Video Processing								
		8EC5-13	Adaptive Signal Processing								
2	OE		Open Elective-II	3	0	0	3	30	120	150	3
			Sub Total	6	0	0		60	240	300	6
PRACTICAL & SESSIONAL											
3	PCC	8EC4-21	Internet of Things (IOT) Lab	0	0	2	2	30	20	50	1
4		8EC4-22	Skill Development Lab	0	0	2	2	30	20	50	1
5	PSIT	8EC7-50	Project	3	0	0		210	140	350	7
6	SODECA	8EC8-00	Social Outreach, Discipline & Extra Curricular Activities						25	25	0.5
			Sub Total	3	0	4		270	205	475	9.5
		TOTAL of VIII SEMESTER		9	0	4		330	445	775	15.5





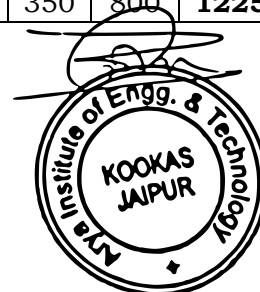
RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme B.Tech. : Information Technology 2nd Year - III Semester

THEORY											
SN	Categ ory	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	BSC	3IT2-01	Advanced Engineering Mathematics	3	0	0	3	30	120	150	3
2	HSMC	3IT1-02/ 3IT1-03	Technical Communication/ Managerial Economics and Financial Accounting	2	0	0	2	20	80	100	2
3	ESC	3IT3-04	Digital Electronics	3	0	0	3	30	120	150	3
4	PCC	3IT4-05	Data Structures and Algorithms	3	0	0	3	30	120	150	3
5		3IT4-06	Object Oriented Programming	3	0	0	3	30	120	150	3
6		3IT4-07	Software Engineering	3	0	0	3	30	120	150	3
			Sub Total	17	0	0		170	680	850	17
PRACTICAL & SESSIONAL											
8	PCC	3IT4-21	Data Structures and Algorithms Lab	0	0	3		45	30	75	1.5
9		3IT4-22	Object Oriented Programming Lab	0	0	3		45	30	75	1.5
10		3IT4-23	Software Engineering Lab	0	0	3		45	30	75	1.5
11		3IT4-24	Digital Electronics Lab	0	0	3		45	30	75	1.5
13	PSIT	3IT7-30	Industrial Training	0	0	1		0	0	50	1
14	SODE CA	3IT8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	0	25	0.5
			Sub- Total	0	0	13		180	120	375	7.5
			TOTAL OF III SEMESTER	17	0	13		350	800	1225	24.5

L: Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

ETE: End Term Exam, **IA:** Internal Assessment



Office of Dean Academic Affairs
Rajasthan Technical University, Kota

B.Tech : Information Technology 3rd Year – V Semester

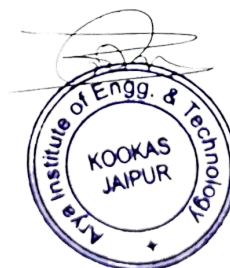
THEORY												
SN	Categor ory	Course		Contact hrs/week			Marks				Cr	
		Code	Title				Exm Hrs	IA	ETE	Total		
				L	T	P						
1	ESC	5IT3-01	Microprocessor And Interfaces	2	0	0	2	20	80	100	2	
2	PCC/ PEC	5IT4-02	Compiler Design	3	0	0	3	30	120	150	3	
3		5IT4-03	Operating System	3	0	0	3	30	120	150	3	
4		5IT4-04	Computer Graphics & Multimedia	3	0	0	3	30	120	150	3	
6		5IT4-05	Analysis of Algorithms	3	0	0	3	30	120	150	3	
7		Professional Elective 1 (any one)			2	0	0	2	20	80	100	2
		5IT5-11	Wireless Communication									
		5IT5-12	Software Testing and Project Management									
		5IT5-13	Bioinformatics									
		Sub-Total		16	0	0		160	640	800	16	
PRACTICAL & SESSIONAL												
8	PCC	5IT4-21	Computer Graphics & Multimedia Lab	0	0	2	2	30	20	50	1	
9	PCC	5IT4-22	Compiler Design Lab	0	0	2	2	30	20	50	1	
10	PCC	5IT4-23	Analysis of Algorithms Lab	0	0	2	2	30	20	50	1	
11	PCC	5IT4-24	Advanced Java Lab	0	0	2	2	30	20	50	1	
12	PSIT	5IT7-30	Industrial Training	0	0	1		75	50	125	2.5	
13	SODE CA	5IT8-00	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: Information Technology

4th Year – VII Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	PCC	7IT4-01	Big Data Analytics	3	0	0	3	30	120	150	3
2	OE		Open Elective - I	3	0	0	3	30	120	150	3
		Sub-Total		6	0	0	6	60	240	300	6
PRACTICAL & SESSIONAL											
3	PCC	7IT4-21	Big Data Analytics Lab	0	0	4	2	60	40	100	2
4	PCC	7IT4-22	Cyber Security Lab	0	0	4	2	60	40	100	2
5	PSIT	7IT7-30	Industrial Training	1	0	0				125	2.5
6	PSIT	7IT7-40	Seminar	2	0	0				100	2
7	SODE CA	7IT8-00	Social Outreach, Discipline & Extra Curricular Activities			1				25	0.5
		Sub- Total		0	0	10	4	120	80	450	9
		TOTAL OF VII SEMESTER		6	0	10	10	180	320	750	15



B.Tech: Information Technology

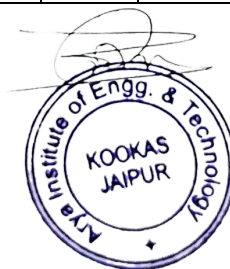
4th Year – VIII Semester

THEORY

SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	PCC	8IT4-01	Internet of Things	3	0	0	3	30	120	150	3
2	OE		Open Elective - II	3	0	0	3	30	120	150	3
		Sub Total		6	0	0	6	60	240	300	6

PRACTICAL & SESSIONAL

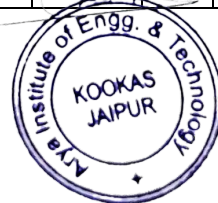
3	PCC	8IT4-21	Internet of Things Lab	0	0	2	2	30	20	50	1
4		8IT4-22	Software Testing and Validation Lab	0	0	2	2	30	20	50	1
5	PSIT	8IT7-50	Project	3	0	0				350	7
6	SODE CA	8IT8-00	Social Outreach, Discipline & Extra Curricular Activities							25	0.5
		Sub- Total		0	0	4	4	120	80	475	9.5
		TOTAL OF VIII SEMESTER		6	0	4	10	180	320	775	15.5



M.Tech: Computer Science and Engineering

1st Year – II Semester

S. No	Course Type	Course Code	Course Name	Contact Hours per Week			Marks				Cr
				L	T	P	Exam Hrs	IA	ETE	Total	
1	PCC	2MCS1-01	Data Science	3	0	0	3	30	70	100	3
2	PCC	2MCS1-02	Distributed and Parallel Algorithms	3	0	0	3	30	70	100	3
3	PEC	2MCS2-11	Big Data Analytics	3	0	0	3	30	70	100	3
		2MCS2-12	Data Security and Access Control								
		2MCS2-13	Data Storage Technologies and Networks								
4	PEC	2MCS2-14	Knowledge Discovery	3	0	0	3	30	70	100	3
		2MCS2-15	Secure Software Design and Enterprise Computing								
		2MCS2-16	Wireless Sensor Networks								
5	MCC	2MCC3-XX	Audit Course-I	2	0	0	2	30	70	100	0
6	PCC	2MCS1-06	High Performance Computing Lab	0	0	4	4	60	40	100	2
7	PCC	2MCS1-07	Data Analytics Lab	0	0	4	4	60	40	100	2
8	REW	2MCS4-50	Mini Project with Seminar	0	0	4	4	60	40	100	2
9	SODEC A	2MCS5-00	Social Outreach Discipline & Extra Curriculum Activities							100	0.5
			Total	14	0	12		300	400	800	18.5



M.Tech: Computer Science and Engineering

2nd Year – III Semester

S. No	Course Type	Course Code	Course Name	Contact Hours per Week			Marks				Credits
				L	T	P	Exam Hrs	IA	ETE	Total	
1	PEC	3MCS2-01	Business Intelligence	3	0	0	3	30	70	100	3
		3MCS2-02	Block-Chain Technologies								
		3MCS2-03	Social Network Analysis								
2	MCC	3MCC3-XX	Open Elective	3	0	0	3	30	70	100	3
3	MCC	3MCC3-XX	Audit Course-II	2	0	0	2	30	70	100	0
4	REW	3MCS4-60	Dissertation-I / Industrial Project	0	0	x		240	160	400	10
			Total	6	0			300	300	600	16

M.Tech: Computer Science and Engineering

2nd Year – IV Semester

S. No	Course Type	Course Code	Course Name	Contact Hours per Week			Marks				Credits
				L	T	P	Exam Hrs	IA	ETE	Total	
1	REW	4MCS4-70	Dissertation-II	0	0	x		360	240	600	16
			Total	0	0			360	240	600	16

SCHEME OF MBA PROGRAM

1. The Master of Business Administration (MBA) is 4 semesters program. The Program structure and credits for MBA have been taken as per AICTE guidelines and model Scheme based on the stakeholders needs and general structure of the program.
2. Minimum number of classroom contact teaching credits for MBA is 96 credits and field work/ internship of 06 credits, thus the minimum number of credits for award of MBA course is 102 credits. Out of 96 credits, 54 credits are allotted for core courses and rest 42 credits for electives including laboratory work.
3. The following shall be the scheme for teaching and examination of MBA Course for academic session 2020-21. The teaching scheme is given in terms of number of sessions for a course/lab work. Each session is of 90 minutes. There will be 5 days teaching in a week.

FIRST SEMESTER MBA TEACHING SCHEME

SN	Course Type	Paper Code	Paper Title	No of Sessions		Credits	Internal	External	Total
				Per Semester	Per Week				
1	PCC	M-101	Fundamentals of Management	24	2	3	30	70	100
2	PCC	M-102	Managerial Economics	24	2	3	30	70	100
3	PCC	M-103	Operations Management-I	24	2	3	30	70	100
4	PCC	M-104	Marketing Management	24	2	3	30	70	100
5	PCC	M-105	Information Technology for Managers	24	2	3	30	70	100
6	PCC	M-106	Organizational Behavior	24	2	3	30	70	100
7	PCC	M-107	Cost and Management Accounting	24	2	3	30	70	100
8	PCC	M-108	Business Statistics and Analytics for Decision Making	24	2	3	30	70	100
9	MCC	MCC	AUDIT COURSE	12	1	0	30	70	100*
10	REW	M-109	Seminar on Contemporary Issues	24	2	1	60	40	100
11	PCC	M-110	Data Analytics Lab.	24	2	1	60	40	100
12	PCC	M-111	Business Communication Lab.	24	2	1	60	40	100
13	SODECA		Social Outreach, Discipline & Extra Curriculum Activities	-			-	100	100
Total for I Semester				276	23	27	420	780	1200

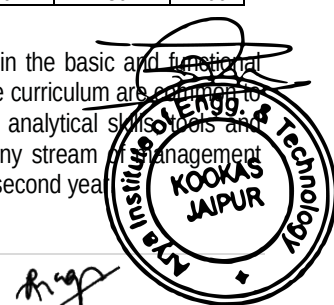
*Note: Marks of audit course will not be considered for credit purpose

SECOND SEMESTER MBA TEACHING SCHEME

SN	Course Type	Paper Code	Paper Title	No of Sessions		Credits	Internal/ Minimum Marks	External/ Minimum Marks	Total
				Per Semester	Per Week				
1	PCC	M-201	Legal and Business Environment	24	2	3	30	70	100
2	PCC	M-202	Corporate Strategy	24	2	3	30	70	100
3	PCC	M-203	Quantitative Techniques	24	2	3	30	70	100
4	PCC	M-204	Financial Management	24	2	3	30	70	100
5	PCC	M-205	Human Resource Management	24	2	3	30	70	100
6	PCC	M-206	Marketing Research	24	2	3	30	70	100
7	PCC	M-207	Operations Management- II	24	2	3	30	70	100
8	PCC	M-208	New Enterprise and Innovation Management	24	2	3	30	70	100
9	MCC		AUDIT COURSE	12	1	0	30	70	100*
10	REW	M-209	Mini-Project	24	2	1	60	40	100
11	PCC	M-210	Business Ethics Lab.	24	2	1	60	40	100
12	PCC	M-211	Managerial Computing Lab.	24	2	1	60	40	100
13	SODECA		Social Outreach, Discipline & Extra Curriculum Activities	-			-	100	100
Total for II Semester				276	23	27	420	780	1200

*Note: Marks of audit course will not be considered for credit purpose

4. The first year of the MBA Program provides the incoming students, a thorough grounding in the basic and functional disciplines and courses are delivered with managerial focus. The first-year courses in the core curriculum are common to all students, and are aimed at providing contextual understanding, conceptual knowledge, analytical skills, tools and techniques, social, cultural, and environmental sensitivity. This will enable them to enter any stream of management when they embark upon a career, regardless of the choice of specialization they make in the second year.



MBA (Third & Fourth Semester) III 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.