

CURRICULUM STRUCTURE AND SYLLABUS

K.E. Society's

Rajarambapu Institute of Technology, Rajaramnagar.

Information Technology Department

U. G. Course

B. Tech. (IT)

(Implemented from Academic Year 2014-15)

Sr. No.	Year	Sem-I	Sem-II	Total Credits
1.	First Year	26	24	50
2.	Second Year	24	23	47
3.	Third Year	22	23	45
4.	Final Year	26	24	50
Total =				192

Sr. No	Year	Weekly Contact Hours (Sem-I)	Weekly Contact Hours (Sem-II)
1.	First Year	30	29
2.	Second Year	29	29
3.	Third Year	28	27
4.	Final Year	30	27



Rajarambapu Institute of Technology, Rajaramnagar.

(An Autonomous Institute)

Teaching and Evaluation Scheme for

Second Year U.G. Semester III

in Information Technology

(Implemented from Academic Year 2014-15)

Subject Code	Subject	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for Passing	Max	Min for Passing	
SH2131	Algebra and Optimization Techniques	3	--	--	3	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50			--	--
IT2011	Data Communication	3	1	--	4	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50			--	--
IT2031	Data Structures	3	--	--	3	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50			--	--
IT2051	Digital Systems and Microprocessor	3	--	--	3	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50			--	--
IT2071	Discrete Mathematics	3	1	--	4	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50			--	--
IT2511	Data Structures Laboratory	--	--	4	2	ISE	--	--	50	50 %	
						ESE	--	--	50	50 %	
IT2531	Advanced C Programming Laboratory	2	--	2	3	ISE	--	--	50	50 %	
						ESE	--	--	50	50 %	
IT2551	Digital Systems and Microprocessor Laboratory	--	--	2	1	ISE	--	--	100	50 %	
SH253	Professional Skills Development -I	--	--	2	1	ISE	--	--	50	50 %	
						ESE	--	--	50	50 %	
		17	2	10	24	--	--	--	--	--	

Total Credits: 24

Total Contact Hours/Week: 29



Rajarambapu Institute of Technology, Rajaramnagar.

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Teaching and Evaluation Scheme for

Second Year U.G. Semester IV

in Information Technology

(Implemented from Academic Year 2014-15)

Subject Code	Subject	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
							Max	Min for Passing	Max	Min for Passing
IT2021	Software Engineering	3	1	--	4	ISE	20	40%	--	--
						MSE	30		--	--
						ESE	50		40%	--
IT2041	Computer Networks	3	--	--	3	ISE	20	40%	--	--
						MSE	30		--	--
						ESE	50		40%	--
IT2061	Computer Organization	3	--	--	3	ISE	20	40%	--	--
						MSE	30		--	--
						ESE	50		40%	--
IT2081	Automata Theory	3	1	--	4	ISE	20	40%	--	--
						MSE	30		--	--
						ESE	50		40%	--
IT2521	Object Oriented Design and Programming Laboratory	2	--	4	4	ISE	--	--	50	50%
						ESE	--	--	50	50%
IT2541	Computer Networks Laboratory	--	--	4	2	ISE	--	--	100	50%
IT2561	Mini Project-I (Environment Science)	--	--	2	1	ISE	--	--	100	50%
SH252	Professional Skills Development -II	--	--	2	1	ISE	--	--	50	50%
						ESE	--	--	50	50%
SH2011	Environmental Science	1	--	--	1	ISE	20	40%	--	--
						MSE	30		--	--
						ESE	50		40%	--
Total		15	2	12	23	--	--	--	--	--

Total Credits: 23

Total Contact Hours/Week: 29



Rajarambapu Institute of Technology, Rajaramnagar.

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Teaching and Evaluation Scheme for

Third Year U.G. Program Semester V

In Information Technology

(Implemented from Academic Year 2015-16)

Subject Code	Subject	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)			Practical (Marks %)	
							Max	Min for Passing		Max	Min for Passing
IT3011	Operating Systems	3	--	--	3	ISE	20		40%	--	--
						MSE	30			--	--
						ESE	50	40%		--	--
IT3031	Computer Algorithms	3	1	--	4	ISE	20		40%	--	--
						MSE	30			--	--
						ESE	50	40%		--	--
IT3051	Internetworking Protocols	3	--	--	3	ISE	20		40%	--	--
						MSE	30			--	--
						ESE	50	40%		--	--
IT3071	Database Engineering	3	--	--	3	ISE	20		40%	--	--
						MSE	30			--	--
						ESE	50	40%		--	--
IT3511	Java Programming Laboratory	3	--	4	5	ISE	--	--		50	50%
						ESE	--	--		50	50%
IT3531	Operating System Laboratory	--	--	2	1	ISE	--	--		100	50%
IT3551	Internetworking Protocol Laboratory	--	--	2	1	ISE	--	--		100	50%
IT3571	Database Engineering Laboratory	--	--	2	1	ISE	--	--		50	50%
						ESE	--	--		50	50%
SH353	Professional Skills Development -III	--	--	2	1	ISE	--	--		50	50%
						ESE	--	--		50	50%
Total		15	1	12	22	--	--	--		--	--

Total Credits: 22

Total Contact Hours/Week: 28



Rajarambapu Institute of Technology, Rajaramnagar.
 (An Autonomous Institute)
 Teaching and Evaluation Scheme for
Third Year U.G. Semester VI
in Information Technology
 (Implemented from Academic Year 2015-16)

Subject Code	Subject	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for Passing	Max	Min for Passing	
IT3021	System Programming	3	--	--	3	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50	--	--		
IT3041	Cryptography and Network Security	3	1	--	4	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50	--	--		
IT3061	Object Oriented Modeling and Design	3	1	--	4	ISE	20	40%	40%	--	--
						MSE	30			--	--
						ESE	50	--	--		
IT3521	Mobile Application Development Laboratory	3			2	4	ISE	--	--	50	50%
							ESE	--	--	50	50%
IT3541	C# .Net Laboratory	3	--	4	5	ISE	--	--	50	50%	
						ESE	--	--	50	50%	
IT3561	Mini Project –II Laboratory	--	--	2	2	ISE	--	--	100	50%	
SH352	Professional Skills Development -IV	--	--	2	1	ISE	--	--	50	50 %	
						ESE	--	--	50	50 %	
IT3581	Professional Training	--	--	--	Audit Course	ISE	--	--	100	50%	
Total		15	2	10	23	--	--	--	--	--	

Total Credits: 23

Total Contact Hours/Week: 27



Rajarambapu Institute of Technology, Rajaramnagar.
(An Autonomous Institute)
Teaching and Evaluation Scheme for
Final Year U.G. Semester VII
in Information Technology
(Implemented from Academic Year 2016-17)

Course Code	Name of Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks%)		
							Max	Min for Passing	Max	Min for Passing	
IT4011	Principles and Practices for IT Management	3	0	--	3	ISE	20	40%	40%	--	--
						UT1	15			--	--
						UT2	15	40%	40%	--	--
						ESE	50			--	--
	Program Elective-I	3	1	--	4	ISE	20	40%	40%	--	--
						UT1	15			--	--
						UT2	15	40%	40%	--	--
						ESE	50			--	--
	Program Elective-II	3	1	--	4	ISE	20	40%	40%	--	--
						UT1	15			--	--
						UT2	15	40%	40%	--	--
						ESE	50			--	--
	Open Elective-I	3	--	--	3	ISE	20	40%	40%	--	--
						UT1	15			--	--
						UT2	15	40%	40%	--	--
						ESE	50			--	--
IT4511	Free and Open Source Software Laboratory	2	--	4	4	ISE	--	--	50	50%	
						ESE	--	--	50	50%	
IT4531	Web Technology – I Laboratory	2	--	4	4	ISE	--	--	50	50%	
						ESE	--	--	50	50%	
IT4551	Project Phase- I	--	--	4	4	ISE	--	--	50	50%	
						ESE	--	--	50	50%	
Total		16	2	12	26	--	--	--	--	--	

Total Credits: 26

Total Contact Hours/Week: 30

Program Elective-I

Program Elective-I

IT4031: Advanced Database System

IT4091: Cyber Law

IT4051: Internet of Things

IT4111: Image Processing

IT4071: Ad-hoc Networks

IT4131: Mobile Communications

Open Elective-I : Software Project Management (OE451)



Rajarambapu Institute of Technology, Rajaramnagar.
 (An Autonomous Institute)
 Teaching and Evaluation Scheme for
Final Year U.G. Program Semester VIII
in Information Technology
 (Implemented from Academic Year 2016-17)

Subject Code	Subject	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for Passing	Max	Min for Passing	
IT4021	Software Testing and Quality Assurance	3	1	--	4	ISE	20	40%	40%	--	--
						UT1	15			--	--
						UT2	15	40%	40%	--	--
						ESE	50			--	--
	Program Elective-III	3	1	--	4	ISE	20	40%	40%	--	--
						UT1	15			--	--
						UT2	15	40%	40%	--	--
						ESE	50			--	--
	Open Elective-II	3	--	--	3	ISE	20	40%	40%	--	--
						UT1	15			--	--
						UT2	15	40%	40%	--	--
						ESE	50			--	--
IT4521	Web Technology – II Laboratory	2	--	4	4	ISE	--	--	--	50	50%
						ESE	--	--	--	50	50%
IT4541	IT Technologies Laboratory	--	--	2	1	ISE	--	--	--	100	50%
IT4561	Project Phase- II	--	--	8	8	ISE	--	--	--	50	50%
						ESE	--	--	--	50	50%
Total		11	2	14	24	--	--	--	--	--	--

Total Credits: 24

Total Contact Hours/Week: 27

Program Elective-III

IT4041: Cloud Computing

IT4061: Big Data and Analytics

IT4081: Wireless Sensor Network

Open Elective II: IT for Engineers (OE452)