

**Kolhapur Institute of Technology's
College of Engineering, Kolhapur
(An Autonomous Institute)**



Curriculum Structure

For

**B. Tech. Information Technology
(Under Graduate Programme)**

Academic Year 2018-2019

Kolhapur Institute of Technology's College of Engineering, Kolhapur
Teaching and Evaluation scheme for
Second Year B. Tech. Programme in Information Technology
Second Year (Semester-III)



Course Code	Course Name	Hr/Week			Credits	Evaluation Scheme			
		L	T	P		Component	Marks		
							Max	Min For Passing	
UITE0301	Discrete Mathematical Structures	3	1	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0302	Applied Mathematics	3	1	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0303	Data Communication and Networking	4	-	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0304	Digital Systems and Microprocessor	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0305	Data Structures	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0331	Data Communication and Networking Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE0332	Digital Systems and Microprocessor Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE0333	Data Structures Lab	-	-	4	2	ISE	50	20	40
						ESE(POE)	50		
UITE0361	Environmental Studies	2	-	-	-	Audit Course-I	100		40
Total		19	2	8	22	Total contact hours/Week 29			

Kolhapur Institute of Technology's College of Engineering, Kolhapur
Teaching and Evaluation scheme for
Second Year B. Tech. Programme in Information Technology
Second Year (Semester-IV)



Course Code	Course Name	Hr/Week			Credits	Evaluation Scheme			
		L	T	P		Component	Marks		
							Max	Min For Passing	
UITE040 1	Automata Theory	3	1	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE040 2	Software Engineering	3	1	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE040 3	Computer Networks	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE040 4	Computer Organization and Architecture	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE040 5	Object Oriented Programming	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE043 1	Object Oriented Programming Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE043 2	Problem Solving using Computers	1	-	2	2	ISE	50	20	40
						ESE(POE)	50		
UITE043 3	Computer Networks Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE044 1	Mini Project – I	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE046 1	Soft skills	1	1	-	-	Audit Course-II	100		40
	Total	17	3	8	22	Total contact hours/Week 29			

Kolhapur Institute of Technology's College of Engineering, Kolhapur
Teaching and Evaluation scheme for
Third Year B. Tech. Programme in Information Technology
Third Year (Semester-V)



Course Code	Course Name	Hr/Week			Credits	Evaluation Scheme			
		L	T	P		Component	Marks		
							Max	Min For Passing	
UITE0501	Database Engineering	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0502	Operating Systems	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0503	Design and Analysis of Algorithms	3	1	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0504	Machine Learning	3	1	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE052*	Professional Elective – I*	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0531	Application Development Tools – I Lab	1	-	2	2	ISE	50	20	40
						ESE(POE)	50	20	
UITE0532	Database Engineering Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50	20	
UITE0533	Operating Systems Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50	20	
UITE0541	Mini Project – II	-	-	2	1	ISE	50	20	40
						ESE(POE)	50	20	
UITE0561	Professional Certification – I\$	-	-	2	-	Audit Course-III	100		40
Total		16	2	10	22	Total contact hours/Week 28			

Professional Electives-I

PE-1	Code
Course Name	
Cloud Computing	UITE0521
Soft Computing	UITE0522
Computer Graphics	UITE0523

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Third Year (Semester-VI)

Course Code	Course Name	Hr/Week			Credits	Evaluation Scheme			
		L	T	P		Component	Marks		
							Max	Min For Passing	
UITE0601	Cryptography and Network Security	3	1	-	4	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0602	System Software	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0603	Distributed Computing	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE062*	Professional Elective – II*	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UOEL06##	Open Elective – I #	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0631	Application Development Tools – II Lab	2	-	2	3	ISE	50	20	40
						ESE(POE)	50		
UITE0632	Distributed Computing Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE063*	Professional Elective-II Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE0634	Mini Project – III	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
UITE0661	Professional Certification – II \$	-	-	2	-	Audit Course-IV	100		40
	Total	17	1	10	22	Total contact hours/Week: 28			

Professional Electives-II

PE-II Course Name	OE-1 Course Name
Unix Operating System (UITE0621)	PC Maintenance and Troubleshooting (UOEL0621)
Unix Operating System Lab (UITE0633)	Numerical Techniques in 'C' (UOEL0622)
Internet of Things (UITE0622)	
Internet of Things Lab. (UITE0634)	
Ad hoc Wireless Networks (UITE0623)	
Ad hoc Wireless Networks Lab (UITE0635)	

Kolhapur Institute of Technology's College of Engineering, Kolhapur
Teaching and Evaluation scheme for
Fourth Year B. Tech. Program in Information Technology



Final Year (Semester-VII)

Course Code	Course Name	Hr/Week			Credits	Evaluation Scheme			
		L	T	P		Component	Marks		
							Max	Min For Passing	
UITE0701	Project Management	2	1	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0702	Mobile Technology	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE072*	Professional Elective – III*	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UOEL07##	Open Elective – II#	3	-	-	3	ISE-I	10	20	40
						MSE	30		
						ISE-II	10		
						ESE	50		
UITE0731	Mobile App Development Lab	2	-	2	2	ISE	50	20	40
						ESE(POE)	50		
UITE0732	Web Technology – I Lab	2	-	2	3	ISE	50	20	40
						ESE(POE)	50		
UITE0733	Software Testing and Quality Assurance Lab	1	-	2	2	ISE	50	20	40
						ESE(POE)	50		
UITE0751	Project Phase – I	-	-	2	1	ISE	50	20	40
						ESE(POE)	50		
Total		16	1	8	20	Total contact hours/Week 25			

Professional Electives-III

PE-III Course Names	OE-II
High Performance Computing (UITE0721)	Ethical Hacking (UOEL0721)
Software Defined Network (UITE0722)	Software Systems (UOEL0722)
Digital Image Processing (UITE0723)	

Kolhapur Institute of Technology's College of Engineering, Kolhapur
Teaching and Evaluation scheme for
Fourth Year B. Tech. Program in Information Technology



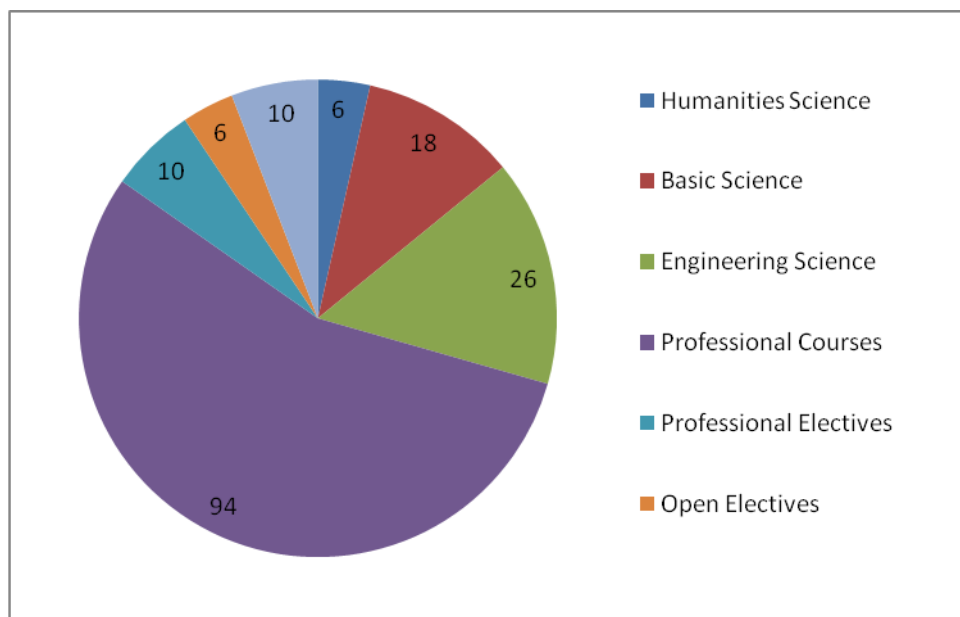
Final Year (Semester-VIII)

Course Code	Course Name	Hr/Week			Credits	Evaluation Scheme			
		L	T	P		Component	Marks		
							Max	Min For Passing	
UITE0801	Web Technology - II	2	-	-	2	ISE-I	10		40
						MSE	30		
						ISE-II	10		
						ESE	50	20	
UITE0802	Data Analytics	3	-	-	3	ISE-I	10		40
						MSE	30		
						ISE-II	10		
						ESE	50	20	
UITE0831	Web Technology – II Lab	-	-	2	1	ISE	50	20	40
						ESE(POE)	50	20	
UITE0851	Project Phase– II	-	-	12	6	ISE-I	75	60	120
						ISE-II	75		
						ESE	150	60	
Total		5	-	14	12	Total contact hours/Week 19			

Proposed Course Credits Distribution

Curriculum Component	credits	Percentage(%)
Humanities Science	6	3.53
Basic Science	18	10.59
Engineering Science	26	15.29
Professional Courses	94	55.29
Professional Electives	10	5.8
Open Electives	6	3.53
Project/Seminar/Training/ Internship	10	5.8
Total	170	100%

Credit wise



Percentagewise

