

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



**Proposed Curriculum Structure
for
Computer Science & Engineering
(Under Graduate Programme)
Academic Year 2018-2019**



**Teaching and Evaluation scheme for
Second Year B. Tech. Program in Computer Science & Engineering
Semester-III**

Course Code	Course	Teaching Scheme				Evaluation Scheme (TH)			
		L	P	T	Credits	Components	Max	Min for pass (%)	
UCSE0301	Computational Mathematics	3	-	1	4	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0302	Discrete Mathematical structure	3	-	1	4	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0303	Data Structures	3	0	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0304	Digital Logic Design & Microprocessors	4	-	-	4	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0305	Data Communication and Networks	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0331	Digital Logic Design & Microprocessor Lab	-	2	-	1	ISE	25	10	-
						ESE(OE)	50	20	-
UCSE0332	Data Communication and Networks Lab	-	2	-	1	ISE	25	10	-
						ESE(POE)	50	20	-
UCSE0333	Data Structures Lab	-	4	-	2	ISE	50	20	-
						ESE(POE)	50	20	-
UCSE0361	Environmental Studies	2	-	-	-	ESE	100	40	-
		18	8	2	22	-	850	-	-
Total Credits: 22						Total Contact hours:28			

BS Basic Sciences
ES Engineering Sciences
PC Professional Core

L Theory ISE In Semester Evaluation
P Practical MSE Mid Semester Examination
T Tutorial ESE End Semester Examination



**Teaching and Evaluation scheme for
Second Year B. Tech. Program in Computer Science & Engineering
Semester-IV**

Course Code	Course	Teaching Scheme				Evaluation Scheme (TH)				
		L	P	T	Credits	Components	Max	Min for pass (%)		
UCSE0401	Automata Theory	3	-	1	4	ISE-I	10	20	40	
						ISE-II	10			
						MSE	30			
						ESE	50			
UCSE0402	Computer Graphics	3	-	-	3	ISE-I	10	20	40	
						ISE-II	10			
						MSE	30			
						ESE	50			
UCSE0403	Computer Networks	3	-	-	3	ISE-I	10	20	40	
						ISE-II	10			
						MSE	30			
						ESE	50			
UCSE0404	Computer Organization and Architecture	3	-	-	3	ISE-I	10	20	40	
						ISE-II	10			
						MSE	30			
						ESE	50			
UCSE0405	Software Engineering	3	-	-	3	ISE-I	10	20	40	
						ISE-II	10			
						MSE	30			
						ESE	50			
UCSE0431	Object Oriented Programming using C++ Lab.	2	2	-	3	ISE	25	10	-	
						ESE(POE)	50	20		
UCSE0432	Computer Graphics Lab.	-	2	-	1	ISE	25	10	-	
						ESE(OE)	25	10		
UCSE0433	Computer Networks Lab.	-	2	-	1	ISE	25	10	-	
						ESE(OE)	25	10		
UCSE0451	Mini Project	-	2	-	1	ISE	25	10	-	
						ESE(POE)	50	20	-	
UCSE0461	Audit Course		2			ESE	50	20		
		17	10	1	22	-	800	-	-	
		Total Credits: 22				Total Contact hours:28				

BS	Basic Sciences	L	Theory	ISE	In Semester Evaluation
ES	Engineering Sciences	P	Practical	MSE	Mid Semester Examination
PC	Professional Core	T	Tutorial	ESE	End Semester Examination



Teaching and Evaluation scheme for
Third Year B. Tech. Program in Computer Science & Engineering
Semester-V

Course Code	Course	Teaching Scheme				Evaluation Scheme (TH)			
		L	P	T	Credits	Components	Max	Min for pass (%)	
UCSE0501	Computer Algorithm	3	-	1	4	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0502	Operating System	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE052*	Professional Elective-I	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0503	Database Engineering	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0504	Programming Paradigm	2	-	1	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0531	Database Engineering Lab.	-	2	-	1	ISE	25	10	10
						ESE(POE)	50	20	25
UCSE0532	Advanced Programming Laboratory	2	4	-	4	ISE	25	10	10
						ESE (POE)	50	20	20
UCSE0533	Operating System Lab	-	2	-	1	ISE	50	20	-
UCSE0561	Professional Certification	-	2	-	-	ESE	100	40	-
		16	10	2	22	-	800	-	-
Total Credits: 22						Total Contact hours:28			

PE-1	Code
Course Name	
Mobile Technology	UCSE0521
Natural Language Processing	UCSE0522
Project Management	UCSE0523
AC-3	
Professional Certification in Java/Oracle/Red hat	



**Teaching and Evaluation scheme for
Third Year B. Tech. Program in Computer Science & Engineering
Semester-VI**

Course Code	Course	Teaching Scheme				Evaluation Scheme (TH)			
		L	P	T	Credits	Components	Max	Min for pass (%)	
UCSE0601	Advanced Database Systems	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0602	Compiler Construction	3	-	1	4	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0603	Information System Security	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE062*	Professional Elective-II	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UOEL062*	Open Elective-I	3	-	-	3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0631	Professional Communication Lab.	-	2	-	1	ISE I	25	10	-
						ISE II	50	20	-
UCSE063*	Professional Elective-II Lab.	-	2	-	1	ISE	25	10	-
						ESE(OE)	50	20	-
UCSE0632	Advanced Database Systems lab	-	2	-	1	ISE	25	10	-
						ESE(POE)	50	20	-
UCSE0651	Advanced Programming Projects	2	2	-	3	ISE	25	10	-
						ESE(POE)	50	20	-
UCSE0661	Audit Course		2			ESE	100	40	
		17	10	1	22	-	900	-	-
		Total Credits: 22				Total Contact hours:28			

PE-II Course Name	OE-1 Course Name
Unix Operating System (UCSE0621)	PC Maintenance and Troubleshooting (UOEL0621)
Unix Operating System Lab (UCSE0633)	Numerical Techniques in 'C' (UOEL0622)
Data Analytics (UCSE0622)	
Data Analytics Lab. (UCSE0634)	
Ad hoc Wireless Networks (UCSE0623)	
Ad hoc Wireless Networks Lab (UCSE0635)	



**Teaching and Evaluation scheme for
Final Year B. Tech. Program in Computer Science & Engineering
Semester-VII**

Course Code	Course	Teaching Scheme				Evaluation Scheme (TH)			
		L	P	T	Credits	Components	Max	Min for pass (%)	
UCSE0701	Distributed Systems	3	-	-	3	ISE-I	10		40
						ISE-II	10		
						MSE	30		
						ESE	50	20	
UCSE0702	Parallel Programming	3	-	-	3	ISE-I	10		40
						ISE-II	10		
						MSE	30		
						ESE	50	20	
UCSE072*	Professional Elective-III	3	-	-	3	ISE-I	10		40
						ISE-II	10		
						MSE	30		
						ESE	50	20	
UOEL072*	Open Elective-II	3	-	-	3	ISE-I	10		40
						ISE-II	10		
						MSE	30		
						ESE	50	20	
UCSE0731	Parallel Programming Lab	-	2	-	1	ISE	50	20	
						ESE(POE)	50	20	
UCSE0732	Web Technology Lab	3	4	-	5	ISE	50	20	-
						ESE(POE)	50	20	-
UCSE0733	Distributed Systems Lab.	-	2	-	1	ISE	50	20	-
						ESE(OE)	50	20	-
UCSE0751	Project Phase - I	-	2		1	ISE	50	20	-
UCSE0761	BEC Certification	-	2	-	-	ESE	50	20	-
		15	12	0	20	-	800	-	-
Total Credits: 20						Total Contact hours:27			

PE-III Course Names	OE-II
Internet of Things (UCSE0721)	Ethical Hacking (UOEL0721)
High Performance Computing (UCSE0722)	Software Systems (UOEL0722)
Software Defined Network (UCSE0723)	
Digital Image Processing (UCSE0724)	



**Teaching and Evaluation scheme for
Final Year B. Tech. Program in Computer Science & Engineering
Semester-VIII**

Course Code	Course	Teaching Scheme				Evaluation Scheme (TH)			
		L	P	T	Credits	Components	Max	Min for pass	
UCSE0801	Machine Learning	2			2	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0802	Cloud Computing	3			3	ISE-I	10	20	40
						ISE-II	10		
						MSE	30		
						ESE	50		
UCSE0831	Machine Learning Lab		2		1	ISE	50	20	
UCSE0851	Project Phase - II	-	12	-	6	ISE-I	75	60	120
						ISE-II	75		
						ESE(POE)	150	60	
UCSE0861	Coursera/Mooc/EDX/Udacity	Audit Course				-	-	-	-
		5	14	0	12	0	400	-	-
		Total Credits: 12				Total Contact hours:19			

PC Professional Core
PRJ. Project

L Theory
P Practical
T Tutorial

ISE In Semester Evaluation
MSE
ESE

Distribution of Credits:-

Domain	Credits	Percentage
Project (PRJ)	11	6.4%
Humanities Science (HS)	6	3.53%
Basic Science (BS)	18	10.59%
Engineering Science (ES)	26	15.29%
Professional Core (PC)	93	53.53%
Professional Elective (PE)	10	5.88%
Open Elective (OE)	6	3.53%
Total	170	100.00%

