



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Computer Science and Engineering) Sem-I AY 2020-21

Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	4IC501	Research Methodology	2	0	0	2	2	10	30	10	50
2	PC	4CO501	Mathematical foundations of Computer Science	3	0	0	3	3	10	30	10	50
3	PC	4CO502	Advanced Data Structures	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
4	PC	4CO552	Computing Lab 1	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
5	PE	4CO5**	Professional Elective 1	3	0	0	3	3	10	30	10	50
6	PE	4CO5**	Professional Elective 2	3	0	0	3	3	10	30	10	50
Professional Elective (Lab)												
7	PE	4CO553	Computing Lab 2	0	0	4	4	2	25	25	25	25
Mandatory Life Skill Courses												
8	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
9	VAPC	Refer list	Value Added Professional Courses					#				
Value Added Life-Skill Courses #												
10	VALS	Refer list	Value Added Life Skill Courses					#				
Total				16	0	8	24	18				

Notes:

* For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.

The Value Added Courses are Optional Courses. The mode of teaching (LTPI) & evaluation scheme is decided by the resource person.

The list of Value added courses will be updated from time to time.

The course may be on paid basis. The credits earned from these courses will be shown on grade card.

For SPI and CPI calculation, these courses will be excluded.

@ Minimum 2 mandatory life skill courses are to be completed for award of degree.

For further details refer to Academic and Examination rules and regulations.



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Sr.No.	Course Code	Course Name
Professional Elective 1		
1	4CO511	Image Processing
2	4CO512	Internet of Things
Professional Elective 2		
1	4CO515	Data Science
2	4CO516	Advanced Network Technologies



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Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	4CO521	Advanced Algorithms	3	0	0	3	3	10	30	10	50
2	PC	4CO522	Soft Computing	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
3	PC	4CO571	Computing Lab 3	0	0	4	4	2	25	25	25	25
4	PC	4CO573	Industrial Project	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
5	PE	4CO5**	Professional Elective 3	3	0	0	3	3	10	30	10	50
6	PE	4CO5**	Professional Elective 4	3	0	0	3	3	10	30	10	50
Professional Elective (Lab)												
7	PE	4CO572	Computing Lab 4	0	0	4	4	2	25	25	25	25
Mandatory Life Skill Courses												
8	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
9	VAPC	Refer list	Value Added Professional Courses					#				
Value Added Life-Skill Courses #												
10	VALS	Refer list	Value Added Life Skill Courses					#				
Total				14	0	12	26	18				

Notes:

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Sr.No.	Course Code	Course Name
Professional Elective 3		
1	4CO531	Computer Vision
2	4CO532	Theory and Applications of Remote Sensing & GIS
Professional Elective 4		
1	4CO535	Machine Learning
2	4CO536	Network Security