Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for

T.Y. B.Tech. (Information Technology)
Sem-V and VI

AY 2020-21

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Information Technology) Sem-V   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	HS	4HS307	Fundamentals of Management and Economics for Engineers	4	0	0	4	4	10	30	10	50
2	PC	4IT301	Database Engineering	3	0	0	3	3	10	30	10	50
3	PC	4IT302	Operating System	3	0	0	3	3	10	30	10	50
4	PC	4IT303	Computer Algorithm	3	0	0	3	3	10	30	10	50
5	PC	4IT304	Web Technology	1	0	0	1	1	10	30	10	50
Professional Core (Lab)												
6	PC	4IT351	Database Engineering Lab	0	0	2	2	1	25	25	25	25
7	PC	4IT353	Computer Algorithm Lab	0	0	2	2	1	25	25	25	25
8	PC	4IT354	Web Technology Lab	0	0	2	2	1	25	25	25	25
9	PC	4IT341	Mini Project 2	0	0	2	2	1	25	25	25	25
Professional Elective (Theory)												
10	PE	Refer list	Professional Elective 1	2	1	0	3	3	10	30	10	50
Open Elective												
11	OE	Refer list	Open Elective 1	3	0	0	3	3	10	30	10	50
Value Added Professional Courses #												
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Value Added Life-Skill Courses #												
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			Total	19	1	8	28	24				

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Course List for T.Y. B.Tech. (Information Technology) Sem-V   AY 2020-21

Sr.No.	Course Code	Course Name
Professional Elective 1		
1	4IT311	Cloud Computing
2	4IT312	Wireless Network
3	4IT313	Computer Graphics and Multimedia Techniques
4	4IT314	Advanced Data Structure
5	4IT315	Artificial Intelligence

	Open Elective 1	
1	4OE315	Remote Sensing and GIP, GPS
2	4OE330	Energy Engineering
3	4OE343	Electrical Machine Technology
4	4OE357	Electronic Systems

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) is decided by the resource person.

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

   These courses will be offered as per availability of faculty

@ 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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Credit System for T.Y. B.Tech. (Information Technology) Sem-VI   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	4IT321	Advanced Database Engineering	3	0	0	3	3	10	30	10	50
2	PC	4IT322	Digital Image Processing	3	0	0	3	3	10	30	10	50
3	PC	4IT323	Unix Operating System	3	0	0	3	3	10	30	10	50
4	PC	4IT324	Parallel Programming	1	0	0	1	1	10	30	10	50
			Professional Core (Lab)									
5	PC	4IT373	Unix Operating System Lab	0	0	2	2	1	25	25	25	25
6	PC	4IT374	Parallel Programming Lab	0	0	2	2	1	25	25	25	25
7	PC	4IT342	Mini Project 3	0	0	2	2	1	25	25	25	25
			Professional Elective (Theory)									
8	HS	Refer list	Elective Foundation Course in Humanities	3	0	0	3	3	10	30	10	50
9	PE	Refer list	Professional Elective 2	2	1	0	3	3	10	30	10	50
			Open Elective									
10	OE	Refer list	Open Elective 2	3	0	0	3	3	10	30	10	50
			Value Added Professional Courses #									
			--									
			Value Added Life-Skill Courses #									
			--									
			Total	18	1	6	25	22				

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Course List for T.Y. B.Tech. (Information Technology) Sem-VI   AY 2020-21

Sr.No.	Course Code	Course Name
Elective Foundation Course in Humanities	
1	4HS301	Law and Engineering
2	4HS305	Foreign Language-German
3	4HS306	Human Relations at Work

Sr.No.	Course Code	Course Name
	Professional Elective 2	
1	4IT331	Machine Learning
2	4IT332	Virtualization Techniques
3	4IT333	IoT System and Application
4	4IT334	Information Storage and Management
5	4IT335	Intellectual Property Rights

Sr.No.	Course Code	Course Name
	Open Elective 2	
1	4OE309	Theory of Structures
2	4OE337	Joining Technology
3	4OE338	Mechanical Power Transmission
4	4OE350	Renewable Energy
5	4OE366	Biomedical Instrumentation

Notes:

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