JSPM UNIVERSITY PUNE
Faculty of Science and Technology (FST)
Course Structure: B. Tech. First Year – Group B
(Computer Science and Engineering, Artificial Intelligence and Machine Learning, Data Science and Information Technology, Electronics and Telecommunication Engineering)

Semester - I

Level - 4.5

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme (Hrs. per week)				Examination and Marking Scheme			Credits
				L	T	P	EL	TH	PR	OR	
01	BSC	230GMAB03_01	Linear Algebra	2	1	-	-	100	-	-	3
02	BSC	230GCHB01_01	Applied Chemistry	3	-	-	-	100	-	-	3
03	BSC	230GPHB03_01	Semiconductor Physics and Electromagnetism	2	-	-	-	100	-	-	2
04	ESC	230GMEB02_01	Engineering Graphics and Design	2	-	-	-	100	-	-	2
05	ESC	230GCEB01_01	Engineering Mechanics	2	-	-	-	100	-	-	2
06	VSC	230GETB01_01	Electronics and Computer Workshop	-	-	2	2	-	50	-	1.5
07	VSC	230GMEB04_01	Mechanical Fabshop	-	-	2	2	-	-	50	1.5
08	AEC (HSMC)	230UENB01_01	Effective Communication Skills	1	-	2	-	50	-	-	2
09	LC	230GCHB02_01	Applied Chemistry Lab	-	-	2	-	-	50	-	1
10	LC	230GPHB04_01	Semiconductor Physics and Electromagnetism lab	-	-	2	-	-	50	-	1
11	LC	230GMEB03_01	Engineering Graphics and Design Lab	-	-	2	-	-	50	-	1
Total Academic Engagement and Credits				12	1	12	4	550	200	50	20
				25				800			

Dr. A. S. Deshpande
Academic Coordinator
FST

Dr. R. S. Deshpande
Dean
FST

Dr. B. B. Ahuja
Vice Chancellor
JSPM University Pune

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Faculty of Science and Technology (FST)
Course Structure: B. Tech. First Year – Group B
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Semester - II
Level - 4.5

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme (Hrs. per week)				Examination and Marking Scheme			Credits
				L	T	P	EL	TH	PR	OR	
01	BSC	230GMAB06_02	Univariate Calculus	2	1	-	-	100	-	-	3
02	BSC	230GPHB01_02	Optics and Modern Physics	3	-	-	-	100	-	-	3
03	ESC	230GCSB01_02	Programming for Problem Solving	2	-	-	-	100	-	-	2
04	ESC	230GEEB01_02	Foundations of Electrical Engineering	2	-	-	-	100	-	-	2
05	ESC	230GMEB01_02	Foundations of Mechanical Engineering	2	-	-	-	100	-	-	2
06	PCC	230GCSB03_02	Foundations of Computer Science-Computational Thinking to Cybersecurity	3	-	-	-	100	-	-	3
07	VSC	230IDCB01_02	Design Thinking and Creativity	1	-	-	2	-	-	50	1.5
08	IKS (HSMC)	230UHIB01_02	States in Ancient India	2	-	-	-	50	-	-	2
09	LC	230GPHB02_02	Optics and Modern Physics Lab	-	-	2	-	-	50	-	1
10	LC	230GCSB02_02	Programming and Problem-Solving Lab	-	-	2	-	-	50	-	1
11	LC	230GEEB02_02	Foundations of Electrical Engineering Lab	-	-	2	-	-	50	-	1
12	LC	230GCSB04_02	Foundations of Computer Science-Computational Thinking to Cybersecurity Lab	-	-	2	-	-	50	-	1
13	LLC	230UPYB01_02	Yoga and Fitness	-	-	2	2	-	-	50	1.5
14	IITP/ FP/ CEP	230GFYB01_02	Internship / Field Project / Community Engagement Programme	4 to 6 weeks				-	-	50	2
Total Academic Engagement and Credits				17	1	10	4	650	200	150	26
				28				1000			

Note: A **Certificate** will be awarded if a student exits after first year. For Exit at the end of first year the student must complete: (Total credits = 8)

a) An internship / OJT of 8 - 10 weeks (4 credits)

b) Additional Course 1 (4 credits)   (Course offered will be Vocational Skill Course (VSC) or Skill Enhancement Course (SEC))

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