

Semester - I			
Course No.	Course title	Credits	
MA 1110	Calculus - I	1	Basic Sciences
MA 1220	Calculus - II	1	Basic Sciences
CY 1017	Environmental Chemistry	2	Basic Sciences
Epxxxx	Modern Physics	2	Basic Sciences
Epxxxx	Maths for Physics	1	Basic Sciences
ID xxxx	Intro to Programming	3	Basic Engineering
LA xxxx	English Comm	2	Soft Skills
CSxxxx	Intro to Computing	1	Dept Core
MSxxxx	Intro to Matls. Sci and Engg	2	Dept Core
Total		15	
BS=7, BE=3, SS=2, DC=3			

Semester - II			
Course No.	Course title	Credits	
MA 1140	Elementary Linear Algebra	1	Basic Sciences
MA 1150	Differential Equations	2	Basic Sciences
ID 1200	Basic Electrical Engineering	3	Basic Engineering
ID 1054	Digital Fabrication	2	Basic Engineering
MExxxx	Engineering Mechanics	3	Basic Engineering
ID1054	Intro to AI/ML	1	Basic Engineering
CH1050	Thermodynamic Laws and Phase transitions	3	Dept core
MSxxxx	Physics of Solids- I	3	Dept core
	LA/CA	1	
Total		19	
BS=3, BE=9, DC=5, LA/CA=1			

Semester - III			
Course No.	Course title	Credits	
CE xxxx	Engineering Drawing	2	Basic Engineering
MA 2110	Introduction to Probability	1	Basic Sciences
MA 2120	Transform Techniques	1	Basic Sciences
CS 3510	Operating Systems I	1	Dept Core
CE2400	Fluid Mechanics	2	Dept Core
ME XXXX	Solid Mechanics	3	Dept Core
ID 2233	Data Structures & Applications	3	Dept Core
CS 1xxx	Discrete Maths	3	Dept Core
CH 2070	Numerical Methods	3	Dept Core
		0	
Total		19	
(BS=2, BE=2, DC=15)			

Semester - IV			
Course No.	Course title	Credits	
BO1010	Introduction to Life Sciences	1	Life Sciences
MA 2140	Introduction to Statistics	1	Basic Sciences
MA 2130	Complex Variables	1	Basic Sciences
EP 1031	EP Lab-1	2	Dept Core
BM 1030	Bio Engineering	2	Dept Core

CS 2443	Algorithms	3	Dept core
	Core Elective (CE)	3	Dept elective
	Free elective (FE)	3	Free elective
	LA/CA	1	
	Total	17	
	(BS=2, LS =1, DC=11, LA/CA=1, FE=3)		

Semester I-IV Total 70

Dept Core (I-IV) 34

Semester V,VI,VII & VIII			
Core Engg Electives (4x7=28+6)	4x7=28 CED	34	Dept Core
ES-Project / Internship VI and VII (ES3305 - Project)*		6	Dept Core
Free Electives (excluding LA/CA)		9	
Liberal & Creative Arts Electives		7	
Intro to Entrepreneurship (SS) + Profess. Ethics		2	Soft Skills
	Total	58	
0, FE=9, LA/CA=7, SS =2			
*ES3305 - Project - Phase I (VI) and Phase II(VII)			
*Guide(one among the four Engg Dept) selection must be done - before			
*IF CGPA>8 can be utilized for internship			

Dept Elective - Basket (Sem-IV)

MExxxx	Kinematics and Dynamics of Mechanics	3
CSxxxx	Theory of Computing	3
		Credits
	Semester - I	15
	Semester - II	19
	Semester - III	19
	Semester - IV	17
	Semester V,VI,VII & VIII	58
	Total	128

Senate Suggestion

BS: 11-12% - 14 credits

BE: 11-12% - 14 credits

DC+DE: 55-60%

SS: 4 credits (3%)

LA/CA: 7-8%

FE: 9-10%

ES curriculum overview		
Course type	Credits	~ percentage
Basic Sciences (BS)	14	~11%
Basic Engineering (BE)	14	~11%
Soft Skills (SS) + Life Sciences (LS)	5	~4%
Liberal Arts / Creative Arts (LA/CA)	9	~7%
Free electives (FE)	12	~10%
Dept (Core + Core Elective+Projects)	74	~57%
	128	~100%