Revised Curriculum Structure
(To be effective from 2018-19 admission batch)

Curriculum for B.Tech

Under Autonomy (**GR A:** ECE, EE, EIE, BME; **GR B:** CSE, IT, ME, CE, FT)

1st Semester							
Sl No	**Paper Code**	**Theory**	**Contact Hours /Week**				**Credit Points**
			L	**T**	**P**	**Total**	
A. THEORY							
1	M 101	Mathematics -I	3	1	0	4	4
2	CH 101/ PH 101	Chemistry-I (Gr. A) / Physics - I(Gr. B)	3	0	0	3	3
3	EE 101/ EC 101	Basic Electrical Engineering (Gr. A) / Basic Electronics Engineering (Gr. B)	3	0	0	3	3
4	HU 101	English	2	0	0	2	2
Total of Theory						**12**	**12**
B. PRACTICAL							
5	CH 191/ PH191	Chemistry-I Lab (Gr. A) / Physics-I Lab(Gr. B)	0	0	3	3	1.5
6	EE 191/ EC 191	Basic Electrical Engineering Lab (Gr. A) /Basic Electronics Engineering Lab(Gr. B)	0	0	3	3	1.5
7	ME 191/ ME 192	Engineering Graphics & Design (Gr A) / orkshop/Manufacturing Practices (Gr-B)	0	0	3	3	1.5
C. SESSIONAL							
8	XC181	Extra Curricular Activity	0	0	0	0	2 units
Total of Theory, Practical & Sessional						**21**	**16.5**

Total Credit in Semester I: 16.5

2nd Semester							
Sl No	**Paper Code**	**Theory**	**Contact Hours /Week**				**Credit Points**
			L	**T**	**P**	**Total**	
A. THEORY							
1	M 201	Mathematics -II	3	1	0	4	4
2	CH 201/ PH 201	Chemistry-I(Gr. B) / Physics - I(Gr. A)	3	0	0	3	3
3	EE 201/ EC 201	Basic Electrical Engineering (Gr. B) / Basic Electronics Engineering (Gr. A)	3	0	0	3	3
4	CS 201	Programming for Problem Solving	3	0	0	3	3
5	ME 201	Engineering Mechanics	3	0	0	3	3
Total of Theory						**16**	**16**
B. PRACTICAL							
6	CS291	Programming for Problem Solving Lab	0	0	3	3	1.5
7	CH 291/ PH291	Chemistry I Lab (Gr. B) / Physics -I Lab (Gr. A)	0	0	3	3	1.5
8	EE 291/ EC 291	Basic Electrical Engineering Lab (Gr. A) /Basic Electronics Engineering Lab(Gr. B)	0	0	3	3	1.5
9	ME 191/ ME 192	Engineering Graphics & Design (Gr B) /Workshop/Manufacturing Practice (Gr-A)	0	0	3	3	1.5
10	HU 291	Language Lab and Seminar Presentation	0	0	2	2	1
C.SESSIONAL							
11	XC281	Extra Curricular Activity	0	0	0	0	2 Units
Total of Theory, Practical & Sessional						**30**	**23**

Total Credit in Semester II: 23.0

Component	Credit (%)
Basic Sciences (Common for all streams under)	15 to 20%
[Physics-I, Physics-II, Chemistry-I*, Math-I, Math-II, Math-III]	
Humanities& Social Sciences (Common for all streams) [1-Eng, 1-Mgt, 1-Vaues & Ethics, 1-Eng. Economics]	5 to 10%

Engineering Sciences and Skills (Common for all streams) [1-Basic EE, 1-Basic Electronics, 1-Eng Mechanics, 1- Programming for Problem Solving, 1-Numerical Methods, 1-Circuit theory/relevant paper in non ckt stream, 1- Engg. Graphics & Design, 1- Workshop/Manufacturing Practice]	15 to 20%
Professional Core (stream specific) [Selection should be in line with respective PEO & PSO]	30 to 40%
Professional Electives (stream specific) [Selection should be in line with respective PEO & PSO]	10 to 15%
Open Elective (free elective/institutional elective) [To be selected from the list of all electives offered by the Institute]	5 to 10%
Project work, seminar, internship [Project work, Seminar-1, Internship-2, GD-1 Design-2, Grand Viva - 2]	10 to 15%
Environmental Science, Co & extracurricular activities [Environment studies, Foreign language, NCC/NSS, SLC]	100 units
T**otal Credit**	**160 to 165 (4 years UG)** **+20 [10 through MOOCS** **+10 through mandatory project]**

***Chemistry II for FT instead of Physics II**

Credit Distribution Ratio:

Category	**Credit Allocation As per AICTE**
Basic Sciences	15 to 20%
Humanities & Social Sciences	5 to 10%
Engineering Sciences and Skills	15 to 20%
Professional Core	30 to 40%
Professional Electives	10 to 15%
Open Elective	5 to 10%
Project work, seminar, internship	10 to 15%
Environmental Science, Co & extracurricular activities	Non-credited

Implementation Scheme of Mandatory Project Work:

Semester	Credit	Number of papers to be assessed under mandatory project
1st	1	Two (0.5 Credit per paper)
2nd	2	Two (0.5 Credit per paper)
3rd	2	Four (0.5 Credit per paper)
4th	2	Four (0.5 Credit per paper)
5th	2	Four (0.5 Credit per paper)
6th	2	Four (0.5 Credit per paper)
Total	10	

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