Curriculum Structure

Responsibilities of the DUGC

The DUGC shall be responsible for the following:

(i) Monitoring of quality of instructions to students.

(ii) Proposing and implementing new Courses

(iii) Attending to the problems of UG students and advising them in academic matters

(iv) Coordination of grade submission to the office of Dean (Academic)

(v) To obtain feedback of the performance appraisal of the course instructors from the students in the prescribed format (Form: BP-01 & BP-02).

Proposed 4Year New B.Tech. Programme Credit Structure

S.No	Programme	Composition		Credits Distribution			
			Baseline	Minors	Honors	Research	Total Credits
1.	B.Tech(Chemical Engg)	Only B.Tech.	161	---	---	---	161
2.	B.Tech. with Honours	B.Tech+Honours	161	---	16	--	161+16=177
3.	B.Tech with Research	B.Tech with Research	161	--	--	16	177
4.	B.Tech with Minors	B.Tech with Minors	161	16-24			161+(16-24)
5.	B.Tech. with Honours with Minors	B.Tech+Honours+Minors	161	16-24	16-24		161+(16-24)+(16-24)
6	B.Tech with Research with Minors	B.Tech with Research with Minors	161	16-24		16-24	161+(16-24)+(16-24)

SEMESTER-I								
S.No	Course Code	Name of Course	Cat.	L	T	P	Credits	Contact Hours
01	To be provided later	Physics/ Chemistry	EE	2	1	2	4	5
02		Mathematics-I	EE	3	1	0	4	4
03		English Language & Technical Communication/Introduction to Artificial Intelligence and Machine Learning	HSS/EE	2	0	2	3	4
04		Chemical Process PrinciplesCore Engineering Essential Course-I(FlexibleL-T-P)	CEE	3	0	0	3	3
05		Engineering ThermodynamicsCore Engineering Essential Course-I((FlexibleL-T-P)/	CEE	2	1	0	3	3
06		Engineering Graphics/Workshop and manufacturing processes	EE	1	0	2	2	3
07		Environment and Climate Change	EE	2	0	0	0	2
08		Extra Academic Activity-A/Extra Academic Activity-B	EAA	--	--	4	2	4**
						Total	21	24+4**

SEMESTER-II								
S. No.	Course Code	Name of Course	Cat.	L	T	P	Credits	Contact Hours
01	To be provided later	Physics/ Chemistry	EE	2	1	2	4	5
02		Mathematics-II	EE	3	1	0	4	4
03		Introduction to Artificial Intelligence and Machine Learning/English Language & Technical Communication	EE	2	0	2	3	4
04		Material Science and Engineering (to be taken up by Applied Mechanics) Core Engineering Supporting Course-I(FlexibleL-T-P)	CES	3	0	0	3	3
05		Fluid Flow Operations (to be taken up by Applied Mechanics) Core Engineering Essential Course-III((Flexible-T-P):	CEE	3	0	2	4	5
06		Engineering Graphics/Workshop and manufacturing processes	EE	1	0	2	2	3
07		Extra Academic Activity-B/Extra Academic Activity-A	EAA	--	--	4	2	4**
						Total	22	24+4**

Theory Course:6; Lab=04; EAA=1

It may be noted that first year structure has been finalized after BoAC consultation and institute processing.

SEMESTER-III								
S. No.	Course Code	Name of Course	Cat.	L	T	P	Credits	**Contact Hours**
01	To be provided later	Chemical EngineeringThermodynamics	CEE	3	1	0	4	**4**
02		Heat Transfer Operations	CEE	3	1	2	5	**5**
03		Fluid Particle Mechanics and Mechanical Operations	CEE	3	1	2	5	**5**
04		Numerical Methods and Statistical Techniques(To be taught by Maths Deptt)	CEE	2	1	0	3	**3**
05		Management Concepts and Applications(Name of course may be changed)	HSS	3	0	0	3	**3**
06		Sports/NCC/NSS/Music/Yoga/Dance/Arts	EAA	0	0	2	2	**2****
Theory Courses = 05, Lab courses = 02; EAA=1						**Total**	**22**	**20+2****

SEMESTER-IV								
Course Code	Name of Course	Cat.	L	T	P	Credits	Contact Hours	
To be provided later	Environmental Pollution Monitoring and Control	CEE	3	1	2	5	6	
	Mass Transfer Operations -I	CEE	3	1	2	5	6	
	Chemical Reaction Engineering-I	CEE	3	1	2	5	6	
	Process Dynamics & Control	CEE	3	1	2	5	6	
	Business Economics(or from pool of courses to be offered by HSS)	HSS	3	0	0	3	3	
	Sports/NCC/NSS/ Music/Yoga/Dance/Arts	EAA	0	0	2	2	2**	
					Total	**25**	**27+2****	

SEMESTER-V								
S. No.	Course Code	Name of Course	Cat	L	T	P	Credits	**Contact Hours**
01	To be provided later	Mass Transfer Operations-II	CEE	3	1	2	5	**6**
02		Heterogenous Reaction Engineering		3	1	2	5	**6**
03		Chemical Technology	CEE	3	0	2	4	**5**
04		5thSem Pool	CEL	3	0	0	3	**3**
05		5th Sem Pool	CEL	3	0	0	3	**3**
						Total	**20**	**23**

SEMESTER-VI								
S. No.	Course Code	Name of Course	Cat.	L	T	P	Credits	Contact Hours
01	To be provided later	Transport Phenomena	CEE	3	1	0	4	4
02		Process Equiment Design	CEE	3	1	0	4	4
03		Computer Aided Process Engineering Lab	CEE	0	0	4	2	4
04		6thSem Pool	CEE	3	0	0	3	3
05		6thSem Pool	CEE	3	0	0	3	3
06		6thSem Pool	CEE	3	0	0	3	3
						Total	19	21

SEMESTER-VII [B. Tech. (Chemical Engineering)]								
S. No.	Course Code	Name of Course	Cat.	L	T	P	Credits	**Contact Hours**
01	To be provided later	Plant Design and Economics	CEE	3	1	0	4	**4**
02		Hazards and Safety in Process Industry	CEE	3	0	0	3	**3**
03		7^{th} Sem Pool	CEE	3	0	0	3	**3**
04		Minor Project	CEE	0	0	6	6	**6**
						Total	**16**	**16**

	SEMESTER-VIII [Compusory for B. Tech. (Chemical Engineering) Students]						
S. No.	Course Code	Name of Course	Cat.	L	T	P	**Credits**
01	To be provided later	Industrial Training/ Major Group Project/Entrepreneuship	CEE	0	0	16	**16**
						Total	**16**