Recommended Structure for Forthcoming Semesters of B.Tech starting from 2010

First Year - First Semester

Sl.No.	Field	Theory	Contact Hours/Week				Cr. Points
			L	T	P	Total	
A. THEORY							
1	**HU**	English	2	0	0	2	2
2	**Basic Sc.**	Chemistry-1 / Physics-1	3	1	0	4	4
3		Mathematics-1	3	1	0	4	4
4	**Engg. Science**	Basic Electrical & Electronic Engineering – 1(Gr-A+Gr-B)	2 2	0	0	4	4
5		Engg. Mechanics	3	1	0	4	4
Total of Theory						**18**	**18**
B. PRACTICAL							
6	**HU**	Language Laboratory	0	0	2	2	1
7		NSS	0	0	2	2	1
8	**Basic Sc**	Chemistry-1/ Physics-1	0	0	3	3	2
9	**Engg. Science**	Basic Electrical & Electronic Engineering -1	0	0	3	3	2
10		Engg Drawing & Computer Graphics / Workshop Practice	1	0	3	4	3
Total of Practical						**14**	**9**
Total of Semester						**32**	**27**

Physics based branches divided in to Gr-A & Gr-B, Gr-A= Phys in sem-I , Gr-B = Phys in sem-II; Chemistry based branches Physics in sem-1.

First Year - Second Semester

Sl. No.	Field	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
A. THEORY							
1	**Basic Science**	Basic Computation & Principles of Computer Programming	3	1	0	4	4
2		Physics-1 / Chemistry-1	3	1	0	4	4
3		Mathematics-2	3	1	0	4	4
4	**Engg. Science**	Basic Electrical & Electronic Engineering-II (Gr-A+Gr-B)	2 2	0	0	4	4
5		**Engineering Thermodynamics & Fluid Mechanics**	**3**	**1**	**0**	**4**	**4**
Total of Theory						**20**	**20**
B. PRACTICAL							
7	**Basic Science**	Basic Computation & Principles of Computer Programming	0	0	3	3	2
8		Physics-1/Chemistry-1	0	0	3	3	2
9	**Engg. Science**	Basic Electrical & Electronic Engineering- II	0	0	3	3	2
10		Workshop Practice / Basic Engg Drawing & Computer Graphics	1	0	3	4	3
Total of Practical						**13**	**9**
Total of Semester						**33**	**29**

Recommended Structure for Forthcoming Semesters of B.Tech starting from 2010

Second Year - Third Semester

Sl.No.	Field	Theory	Contact Hours/Week				Cr. Points
			L	T	P	Total	
A. THEORY							
1	**HU**	Ethics, Philosophy & Values	2	0	0	2	2
2	**Basic Sc.**	Chemistry-2 / Physics-2 (Gr-A) /Mathematics-3 (Gr-B)	3	1	0	4	4
3	**Engg. Sc.**	Basic Environmental Engineering & Elementary Biology for Gr-A; /Engineering Science -1 (discipline specific) Gr-B	2+1/ 3	0/ 0	0/ 0	3/ 3	3/ 3
4		Engineering Science -2 (discipline specific)	3	0	0	3	3
6	**Prof Core**	Two papers	3 3	1 1	0 0	4 4	4 4
Total of Theory						**20**	**20**
B. PRACTICAL							
8	**Basic Sc**	Chemistry-1/ Physics-1 Gr-A; No lab for Gr-B	0	0	3	3	2
9	**Engg. Sc.**	Discipline specific ES; 1ES Lab for Gr-A & 2 ES Labs for Gr-B	0	0	3	3	2
10	**Prof. Core**	Two Practicals	0 0	0 0	3 3	3 3	2 2
Total of Practical						**12**	**8**
Total of Semester						**32**	**28**

* Gr-B has no Basic Science Lab; Two Engg. Science Labs to be included for gr-B.

Second Year - Fourth Semester

Sl.No.	Field	Theory	Contact Hours/Week				Cr. Points
			L	T	P	Total	
A. THEORY							
1	**HU**	Economics for Engineers	2	0	0	2	2
2	**Basic Sc.**	Mathematics-3(Gr-A) / Biology/Physics-II (Gr-B)	3	1	0	4	4
3	**Engg. Sc.**	Engg Sc (discipline specific) Gr-A /Basic Environmental Engineering & Elementary Biology (Gr-B)	3/ 2+1	0/ 0	0/ 0	3/ 3	3/ 3
4&5	**Professional Cores**	Two papers	3 3	1 1	0 0	4 4	4 4
Total of Theory						**17**	**17**
B. PRACTICAL							
7	**HU**	Communication skill & Report writing	0	0	3	3	2
8	**Engg. Sc./Basic Sc.**	ES Lab for Gr-A; / Phys Lab for Gr-B	0	0	3	3	2
10	**Prof. Core.**	Two Labs	0 0	0 0	2 2	3 3	3 3
Total of Practical						**12**	**8**
Total of Semester						**29**	**25**

* Chemistry & Bio-Tech based subjects may take one Biology paper instead of the extra Mathematic III.

Recommended Structure for Forthcoming Semesters of B.Tech starting from 2010

Third Year - Fifth Semester

A. THEORY							
Sl.No	**Field**	**Theory**	**Contact Hours/Week**				**Cr. Points**
			L	**T**	**P**	**Total**	
1	**HU**	Principles & Practices of Management	2	0	0	2	2
2&3	**Prof. Core.**	Two papers	3 3	1 1	0 0	4 4	4 4
4	**Prof. Elec.**	One paper	3	0	0	3	3
5	**Free. Elec.**	One paper	3	0	0	3	3
Total of Theory						**16**	**16**
B. PRACTICAL							
8	**Prof. Core.**	Two Labs	0 0	0 0	3 3	3 3	2 2
9	**Prof. Elec./Free .Elec.**	Two Labs	0 0	0 0	3 3	3 3	2 2
Total of Practical						**12**	**8**
Total of Semester						**28**	**24**

Third Year - Sixth Semester

A. THEORY							
Sl.No.	**Field**	**Theory**	**Contact Hours/Week**				**Cr. Points**
			L	**T**	**P**	**Total**	
1	**HU**	Production & Operations Management / Indian Society Literature & Culture / Introduction to Organisational Behaviour	2	0	0	2	2
2&3	**Prof. Core.**	Two papers	3 3	0 0	0 0	3 3	3 3
4&5	**Prof. Elec.**	Two paper	3 3	0 0	0 0	3 3	3 3
6	**Free. Elec.**	One paper	3	0	0	3	3
Total of Theory						**17**	**17**
B. PRACTICAL							
8	**Prof. Core.**	Two Labs	0 0	0 0	3 3	3 3	2 2
9	**Prof. Elec.**	One Lab	0	0	3	3	2
10	**Free. Elec.**	One Lab	0	0	3	3	2
Total of Practical						**12**	**8**
Total of Semester						**29**	**25**

Recommended Structure for Forthcoming Semesters of B.Tech starting from 2010

Fourth Year - Seventh Semester

Sl. No.	Field	Theory	Contact Hours/Week				Cr. Points
			L	T	P	Total	
A. THEORY							
1 & 2	**Prof. Core.**	Two papers	3 3	0 0	0 0	3 3	3 3
3 & 4	**Prof. Elec.**	Two paper	3 3	0 0	0 0	3 3	3 3
5	**Free. Elec.**	One paper	3	0	0	3	3
Total of Theory						**15**	**15**
B. PRACTICAL							
6	**HU**	Group Discussion	0	0	0	3	2
7	**Prof. Core.**	One Lab	0	0	3	3	2
8	**Prof. Elec.**	One Lab	0	0	3	3	2
9	**Free. Elec.**	One Lab	0	0	3	3	2
10	**Industrial training**						2
Total of Practical						**12**	**10**
Total of Semester						**27+IT**	**25**

Fourth Year - Eighth Semester

Sl. No.	Field	Theory	Contact Hours/Week				Cr. Points
			L	T	P	Total	
A. THEORY							
1	**HSS.**	Any from list or as suggested by BOS	2	0	0	2	2
2	**Prof. Elec.**	One paper	3	0	0	3	3
3	**Free Elec.**	One paper	3	0	0	3	3
Total of Theory						**8**	**8**
B. PRACTICAL							
4	**Design**	Design Design Lab / Industrial problem (Industrial related training 2)	0	0	6	6	4
5	**Project.**	Project-2	0	0	12	12	6
10	**Industrial training**						2
Total of Practical						**18**	**10**
Total of Semester						**26**	**18**