BOS Minutes

R13

B.Tech - Textile

VIGNAN'S
Foundation for Science, Technology & Research
UNIVERSITY
(Estd u/s 3 of UGC Act of 1956)

Department of
Chemical Engineering

Dt: 15.04.2013

MINUTES OF BOARD OF STUDIES MEETING
B.TECH- TEXTILE TECHNOLOGY

The following members were present for the board or studies (BOS) meeting of B.Tech -Textile Technology held on 15-04-2013 at office, Head of the department, Department of Chemical Engineering.

Agenda of the meeting:

1. To discuss and finalize structure and detailed syllabus for B.Tech -Textile Technology applicable from 2013-14 admitted batch.

Memberspresent:

S.No	Name	Members	Signature
1.	Mr. P. Ashok Kumar, HOD, Department of Chemical Engineering.	Chairman, BOS	
2.	Prof. Dr. J. Hayavadana, Professor & HoD - Textile Technology, Osmania University College of Technology, Osmania University, Hyderabad	Invited member	
3.	Dr. T. Ananthakrishnan, Associate Professor, GSKSJTI, Bangalore	Invited member	
4.	Sri P. Ajay Kumar, Director — NSL Textiles Ltd, Chandole, A.P	Invited member	15/04/13
5.	Sri. Pradeep Pathak, Unit Head. NSL Textiles Ltd, Chandole	Invited member	15/4/13
6.	Mr. M. Siva Jagadish Kumar, Assistant Professor.	Internal Member	
7.	Mr.Ismail Z Khan,	Internal Member	

Minutes of the BOS meeting

1. The chairman welcomed all the members of BOS.
2. The chairman highlighted broad objectives of the proposed changes in the course structure of B.Tech – Textile Technology.
3. The chairmen also explained in detail the suggestions and comments communicated from various stakeholders.
4. The members of the BOS thoroughly looked at the proposals regarding B.Tech – Textile Technology in the light of suggestions made by experts and recommended a new course structure for B.Tech – Textile Technology.

After the discussion it is resolved to:

1. Propose and approve course structure for all 4 years of B.Tech- Textile Technology (Appendix-I).
2. Propose and approve detailed syllabus for the 4 years of B.Tech - Textile Technology is to effect from the academic year 2013-14. The proposed structure and syllabus is applicable for 2013 admitted batch onwards.
3. Choice Based Credit System (CBCS) is practiced in the curriculum.
4. Stakeholder's feedback is collected, analyzed and given paramount priority while designing the curriculum and their suggestions are implemented.
5. Major restructuring has taken place in the curriculum by introducing minor specializations such as Management, Humanities & Science, Information Technology and Electronics and Communication Engineering.
6. The curriculum is encompassing the courses that enable employability or entrepreneurship or skill development (Appendix II).
7. In the B.Tech– Textile Technology revised regulation R13, substantial changes are made in the content of all courses and hence the courses are considered as new courses (Appendix III).
8. The feedback from various stakeholders is carefully collected, analyzed and their suggestions are implemented in the curriculum.
9. "Numerical methods" course replaced with "Probability & Statistics".
10. "Textile Testing" is divided into "Textile Testing – 1" and "Textile Testing – 2".

11. Industrial Electronics, Thermal & Air Engineering, TMPO coursesremoved as importance is less and few topics are added in the course "Mechanics of textile Machinery"
12. Course names are modified in tune with AICTE course names.

S.No	Name IN R10	New Course Name
1	INTRODUCTION TO TEXTILE FIBERS	NATURAL FIBERS
2	MAN MADE FIBER TECHNOLOGY	TECHNOLOGY OF MANUFACTURED FIBERS
3	CHEMICAL PROCESSING OF TEXTILES - I	TECHNOLOGY OF PREPARATORY AND DYEING
4	CHEMICAL PROCESSING OF TEXTILES - II	TECHNOLOGY OF PRINTING AND FINISHING
5	CHEMICAL PROCESSING OF TEXTILES – I LAB	TECHNOLOGY OF PREPARATORY AND DYEING LAB
6	CHEMICAL PROCESSING OF TEXTILES – II LAB	TECHNOLOGY OF PRINTING AND FINISHING LAB
7	GARMENT MANUFACTURING TECHNOLOGY	APPAREL PRODUCTION TECHNOLOGY
8	MECHANICS OF TEXTILE MACHINES & UTILITIES	MECHANICS OF TEXTILE MACHINERY
9	GARMENT MANUFACTURING TECHNOLOGY LAB	APPAREL PRODUCTION TECHNOLOGY LAB

Chairman - BoS

Annexure I

Course Structure

I Year I Semester

Subject	L	T	P	To	C
Engineering Mathematics - I	4	-	-	4	4
Engineering Materials	4	-	-	4	4
Fundamentals of Electrical Engineering	4	-	-	4	4
Engineering Chemistry	4	-	-	4	4
Environmental Studies	3	-	-	3	3
Professional Ethics, Values and Human Rights	2	-	-	2	-
Practicals:					
Fundamentals of Electrical Engineering Lab	-	-	3	3	2
Engineering Chemistry Lab	-	-	3	3	2
Engineering Graphics Lab	1	-	3	4	3
TOTAL	**22**	**-**	**9**	**31**	**26**

I Year II Semester

Subject	L	T	P	To	C
Engineering Mathematics - II	4	-	-	4	4
Engineering Physics	4	-	-	4	4
Engineering Mechanics	4	-	-	4	4
Technical English Communication	3	-	-	2	5
Problem Solving and Computer Programming	5	-	-	5	5
Network Security	2	-	-	2	-
Practicals:					
Computer Programming Lab	-	-	3	3	2
Workshop Practice	-	-	3	3	2
Engineering Physics Lab	-	-	3	3	2
TOTAL	**22**	**-**	**9**	**30**	**28**

II Year I Semester

Subject	L	T	P	To	C
Probability and Statistics	4	-	-	4	4
Natural Fibres	4	-	-	4	4
Yarn Manufacturing - I	4	-	-	4	4
Fabric Manufacturing - I	4	-	-	4	4
Technology of Manufactured Fibres	4	-	-	4	4
Seminar	-	-	1	1	1
Minor - I	4	-	-	4	4
Practical Course :					
Yarn Manufacturing - I Lab	-	-	3	3	2
Fabric Manufacturing - I Lab	-	-	3	3	2
Soft Skills Lab	-	-	3	3	2
TOTAL	**24**	**-**	**10**	**34**	**31**

II Year II Semester

Subject	L	T	P	To	C
Data Structures	4	-	-	4	4
Yarn Manufacturing – II	4	-	-	4	4
Fabric Manufacturing - II	4	-	-	4	4
Fashion Technology in Apparelas& Made-Ups	4	-	-	4	4
Technology of Knits & Nonwovens	4	-	-	4	4
Seminar		-	1	1	1
Minor - II	4	-	-	4	4
Practical Course :					
Yarn Manufacturing – II Lab	-	-	3	3	2
Fabric Manufacturing - II Lab	-	-	3	3	2
Professional Communication Lab	-	-	3	3	2
TOTAL	**24**	-	**10**	**34**	**31**

III Year I Semester

Subject	L	T	P	To	C
Textile Testing - I	4	-	-	4	4
Technology of Preparatory and Dying	4	-	-	4	4
Fabric Structure and Design	4	-	-	4	4
Advanced Yarn Manufacturing	4	-	-	4	4
Physical Properties of Textile Fibres **(Elective-I)**	4	-	-	4	4
Process and Quality Management in Textiles **(Elective-I)**					
Mechanics of Textile Machinery **(Elective-I)**					
Minor - III	4	-	-	4	4
Seminar		-	1	1	1
Practical Course :					
Textile Testing - I Lab	-	-	3	3	2
Technology of Preparatory and Dying Lab	-	-	3	3	2
Fabric Structure and Design Lab	-	-	3	3	2
TOTAL	**24**	-	**10**	**34**	**31**

III Year II Semester

Subject	L	T	P	To	C
Textile Testing - II	4	-	-	4	4
Technology of Printing and Finishing	4	-	-	4	4
Technical Textiles	4	-	-	4	4
Shuttle Less Weaving	4	-	-	4	4
Intellectual Property Rights **(Elective-II)**	4	-	-	4	4
Personal Management and Industrial Relations **(Elective-II)**		-	-	-	-
Lean and Six Sigma for Textiles and Apparels **(Elective-II)**		-	-	-	-
Minor - IV	4	-	-	4	4
Seminar		-	1	1	1
Practical Course:					
Textile Testing - II Lab	-	-	3	3	2
Technology of Printing and Finishing Lab	-	-	3	3	2
Mini Project		-	3	3	2
TOTAL	**24**	-	**10**	**34**	**31**

IV Year I Semester

Subject	L	T	P	To	C
Apparel Production Technology	4	-	-	4	4
Industrial Engineering For Textiles & Apparels	4	-	-	4	4
Practical Aspects of Textile & Apparels Manufacturing	4	-	-	4	4
Managerial Economics	4	-	-	4	4
Elective - III	**4**	-	-	**4**	**4**
Garment Manufacturing					
Retailing & Branding Management of Apparels					
Energy and Pollution Control in Textiles					
Elective – IV	4	-	-	4	4
Structure and Properties of Yarn & Fabrics					
Textile Polymer Science					
Maintenance of Textile Machines					
Practical Course:					
Apparel Production Technology Lab	-	-	3	3	2
Pattern Making Lab	-	-	3	3	2
Industrial Engineering Lab	-	-	3	3	2
TOTAL	**24**	-	**9**	**33**	**30**

IV Year II Semester

Subject	L	T	P	To	C
Minor - V	4	-	-	4	4
Elective - V	4	-	-	4	4
High Performance Fibers					
Functional and Medical Textiles					
Computer Applications in Textiles					
Elective – VI	4	-	-	4	4
Textiles in Sports and Automobiles					
Textile Costing and Financial Analysis					
Home Textiles					
Project work	-	-	20	20	10
	12	-	**20**	**32**	**22**

II Semester

Subject	L	T	P	To	C
Internship (6 months)	-	-	36	36	18
	-	-	**36**	**36**	**18**

L = Lecture ; **T** = Tutorial ; **P** = Practical ; **To** = Total ; **C** = Credits

The courses that are highlighted denote implementation of 'Choice Based Credit System (CBCS)'

Chairman - BoS

Annexure II

List of courses that enable employability or entrepreneurship or skill development in the R-13B.Tech – Textile Technology

S.No	Semester / Year	Theory ./ Lab course	Name of the Subject	Employability/ Entrepreneurship/ Skill development
1	Semester I (First Year)	Theory	Engineering Mathematics – I	Skill Development
2	Semester I (First Year)	Theory	Engineering Physics	Skill Development
3	Semester I (First Year)	Theory	Electrical Science	Skill Development
4	Semester I (First Year)	Theory	Technical English Communication	Skill Development
5	Semester I (First Year)	Theory	Problem Solving and Computer Programming	Employability
6	Semester I (First Year)	Theory	Professional Ethics, Values and Human Rights	Employability
7	Semester I (First Year)	Lab	Engineering Physics Lab	Skill Development
8	Semester I (First Year)	Lab	Electrical Science Lab	Entrepreneurship
9	Semester I (First Year)	Lab	Computer Programming Lab	Skill Development
10	Semester II (First Year)	Theory	Engineering Mathematics – II	Skill Development
11	Semester II (First Year)	Theory	Engineering Chemistry	Skill Development
12	Semester II (First Year)	Theory	Engineering Materials	Skill Development
13	Semester II (First Year)	Theory	Engineering Mechanics	Skill Development
14	Semester II (First Year)	Theory	Environmental Studies	Skill Development
15	Semester II (First Year)	Theory	Network Security	Skill Development
16	Semester II (First Year)	Lab	Engineering Chemistry Lab	Skill Development
17	Semester II (First Year)	Lab	Engineering Graphics Lab	Employability
18	Semester II (First Year)	Lab	Workshop Practice Lab	Employability
19	Semester III (Second Year)	Theory	Probability & Statistics	Skill Development
20	Semester III (Second Year)	Theory	Natural Fibres	Skill Development
21	Semester III (Second Year)	Theory	Yarn Manufacturing – I	Employability
22	Semester III (Second Year)	Theory	Fabric Manufacturing – I	Employability
23	Semester III (Second Year)	Theory	Technology of Manufactured Fibres	Employability
24	Semester III (Second Year)	Theory	Minor	Employability
25	Semester III (Second Year)	Lab	Seminar	Employability
26	Semester III (Second Year)	Lab	Yarn Manufacturing – I Lab	Employability
27	Semester III (Second Year)	Lab	Fabric Manufacturing – I Lab	Employability

28	Semester III (Second Year)	Lab	Soft Skills	Employability
29	Semester IV (Second Year)	Theory	Data Structures	Employability
30	Semester IV (Second Year)	Theory	Yarn Manufacturing – II	Employability
31	Semester IV (Second Year)	Theory	Fabric Manufacturing – II	Employability
32	Semester IV (Second Year)	Theory	Fashion Technology In Apparels and Made-Ups	Employability
33	Semester IV (Second Year)	Theory	Technology of Knits & Nonwovens	Employability
34	Semester IV (Second Year)	Theory	Minor	Employability
35	Semester IV (Second Year)	Lab	Seminar	Employability
36	Semester IV (Second Year)	Lab	Yarn Manufacturing – II Lab	Employability
37	Semester IV (Second Year)	Lab	Fabric Manufacturing – II Lab	Employability
38	Semester IV (Second Year)	Lab	Business Correspondence & Technical Report Writing Lab	Employability
39	Semester V (Third Year)	Theory	Textile Testing – I	Employability
40	Semester V (Third Year)	Theory	Technology of Preparatory and Dyeing	Skill Development
41	Semester V (Third Year)	Theory	Fabric Structure and Design	Employability
42	Semester V (Third Year)	Theory	Advanced Yarn & Fabric Manufacturing	Employability
43	Semester V (Third Year)	Theory	Mechanics of Textile Machinery	Skill Development
44	Semester V (Third Year)	Theory	Minor	Skill Development
45	Semester V (Third Year)	Lab	Seminar	Skill Development
46	Semester V (Third Year)	Lab	Textile Testing – I Lab	Employability
47	Semester V (Third Year)	Lab	Technology of Preparatory and Dyeing Lab	Employability
48	Semester V (Third Year)	Lab	Fabric Structure and Design Lab	Skill Development
49	Semester VI (Third Year)	Theory	Textile Testing - II	Skill Development
50	Semester VI (Third Year)	Theory	Technology of Printing and Finishing	Skill Development
51	Semester VI (Third Year)	Theory	Technical Textiles	Employability
52	Semester VI (Third Year)	Theory	Physical Properties of Textile Fibres	Employability
53	Semester VI (Third Year)	Theory	Textile Costing and Financial Analysis	Skill Development
54	Semester VI (Third Year)	Theory	Minor	Skill Development
55	Semester VI (Third Year)	Lab	Seminar	Skill Development
56	Semester VI (Third Year)	Lab	Textile Testing - II Lab	Employability
57	Semester VI (Third Year)	Lab	Technology of Printing And Finishing Lab	Employability

58	Semester VI (Third Year)	Lab	Mini Project	Skill Development
59	Semester VII (Fourth Year)	Theory	Apparel Production Technology	Skill Development
60	Semester VII (Fourth Year)	Theory	Industrial Engineering for Textiles And Apparels	Employability
61	Semester VII (Fourth Year)	Theory	Structure And Properties of Yarns & Fabrics	Employability
63	Semester VII (Fourth Year)	Theory	Elective I a) Retailing and Branding Management of Apparel	Employability
64	Semester VII (Fourth Year)	Theory	Elective I b) Process and Quality Management in Textiles	Employability
65	Semester VII (Fourth Year)	Theory	Elective I c) Computer Applications in Textiles	Employability
66	Semester VII (Fourth Year)	Theory	Elective I d) Garment Merchandising	Employability
68	Semester VII (Fourth Year)	Theory	Elective II a) Energy and Pollution Control in Textiles	Employability
69	Semester VII (Fourth Year)	Theory	Elective II b) Intellectual Property Rights	Employability
70	Semester VII (Fourth Year)	Theory	Elective II c) Personal Management and Industrial Relations	Employability
71	Semester VII (Fourth Year)	Theory	Elective II d) Lean and Six Sigma for Textiles and Apparels	Employability
72	Semester VII (Fourth Year)	Theory	Managerial Economics	Employability
73	Semester VII (Fourth Year)	Lab	Apparel Production Technology Lab	Employability
74	Semester VII (Fourth Year)	Lab	Pattern Making Lab	Employability
75	Semester VII (Fourth Year)	Lab	Industrial Engineering Lab	Employability
76	Semester VIII (Fourth Year)	Lab	Internship/Project work (Industry oriented projects)	Employability

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APPENDIX - III

List of new courses in the R-13

B.Tech – Textile Technology Curriculum

S.No	Semester / Year	Name of the Subject
1	Semester I (First Year)	Engineering Mathematics – I
2	Semester I (First Year)	Engineering Physics
3	Semester I (First Year)	Electrical Science
4	Semester I (First Year)	Technical English Communication
5	Semester I (First Year)	Problem Solving and Computer Programming
6	Semester I (First Year)	Professional Ethics, Values and Human Rights
7	Semester I (First Year)	Engineering Physics Lab
8	Semester I (First Year)	Electrical Science Lab
9	Semester I (First Year)	Computer Programming Lab
10	Semester II (First Year)	Engineering Mathematics – II
11	Semester II (First Year)	Engineering Chemistry
12	Semester II (First Year)	Engineering Materials
13	Semester II (First Year)	Engineering Mechanics
14	Semester II (First Year)	Environmental Studies
15	Semester II (First Year)	Network Security
16	Semester II (First Year)	Engineering Chemistry Lab
17	Semester II (First Year)	Engineering Graphics Lab
18	Semester II (First Year)	Workshop Practice Lab
19	Semester III (Second Year)	Probability & Statistics
20	Semester III (Second Year)	Natural Fibres
21	Semester III (Second Year)	Yarn Manufacturing – I
22	Semester III (Second Year)	Fabric Manufacturing – I
23	Semester III (Second Year)	Technology of Manufactured Fibres
24	Semester III (Second Year)	Minor
25	Semester III (Second Year)	Seminar
26	Semester III (Second Year)	Yarn Manufacturing – I Lab
27	Semester III (Second Year)	Fabric Manufacturing – I Lab
28	Semester III (Second Year)	Soft Skills
29	Semester IV (Second Year)	Data Structures
30	Semester IV (Second Year)	Yarn Manufacturing – II
31	Semester IV (Second Year)	Fabric Manufacturing – II
32	Semester IV (Second Year)	Fashion Technology In Apparels and Made-Ups
33	Semester IV (Second Year)	Technology of Knits & Nonwovens
34	Semester IV (Second Year)	Minor
35	Semester IV (Second Year)	Seminar
36	Semester IV (Second Year)	Yarn Manufacturing – II Lab
37	Semester IV (Second Year)	Fabric Manufacturing – II Lab

38	Semester IV (Second Year)	Business Correspondence & Technical Report Writing Lab
39	Semester V (Third Year)	Textile Testing – I
40	Semester V (Third Year)	Technology of Preparatory and Dyeing
41	Semester V (Third Year)	Fabric Structure and Design
42	Semester V (Third Year)	Advanced Yarn & Fabric Manufacturing
43	Semester V (Third Year)	Mechanics of Textile Machinery
44	Semester V (Third Year)	Minor
45	Semester V (Third Year)	Seminar
46	Semester V (Third Year)	Textile Testing – I Lab
47	Semester V (Third Year)	Technology of Preparatory and Dyeing Lab
48	Semester V (Third Year)	Fabric Structure and Design Lab
49	Semester VI (Third Year)	Textile Testing - II
50	Semester VI (Third Year)	Technology of Printing and Finishing
51	Semester VI (Third Year)	Technical Textiles
52	Semester VI (Third Year)	Physical Properties of Textile Fibres
53	Semester VI (Third Year)	Textile Costing and Financial Analysis
54	Semester VI (Third Year)	Minor
55	Semester VI (Third Year)	Seminar
56	Semester VI (Third Year)	Textile Testing - II Lab
57	Semester VI (Third Year)	Technology of Printing And Finishing Lab
58	Semester VI (Third Year)	Mini Project
59	Semester VII (Fourth Year)	Apparel Production Technology
60	Semester VII (Fourth Year)	Industrial Engineering for Textiles And Apparels
61	Semester VII (Fourth Year)	Structure And Properties of Yarns & Fabrics
63	Semester VII (Fourth Year)	Elective I a) Retailing and Branding Management of Apparel
64	Semester VII (Fourth Year)	Elective I b) Process and Quality Management in Textiles
65	Semester VII (Fourth Year)	Elective I c) Computer Applications in Textiles
66	Semester VII (Fourth Year)	Elective I d) Garment Merchandising
68	Semester VII (Fourth Year)	Elective II a) Energy and Pollution Control in Textiles
69	Semester VII (Fourth Year)	Elective II b) Intellectual Property Rights
70	Semester VII (Fourth Year)	Elective II c) Personal Management and Industrial Relations
71	Semester VII (Fourth Year)	Elective II d) Lean and Six Sigma for Textiles and Apparels
72	Semester VII (Fourth Year)	Managerial Economics
73	Semester VII (Fourth Year)	Apparel Production Technology Lab
74	Semester VII (Fourth Year)	Pattern Making Lab
75	Semester VII (Fourth Year)	Industrial Engineering Lab
76	Semester VIII (Fourth Year)	Internship/Project work (Industry oriented projects)

Chairman - BoS