

BOS MINUTES

R 21

**B. TECH – TEXTILE
TECHNOLOGY**

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

-Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF CHEMICAL ENGINEERING

Date: 07.07.2021

Minutes of Board of Studies (BOS) meeting of B.Tech Textile Technology program held on 07-07-2021 at office of Head of the department, Department of Chemical Engineering, VFSTR, Vadlamudi. All the external members attended online through Zoom meeting. (<https://us02web.zoom.us/j/81993883897>, Meeting ID: 819 9388 3897)

Agenda of the meeting:

1. To discuss and finalize structure and detailed syllabus for B. Tech Textile Technology program applicable from 2021-22 admitted batch.

Members present:

S. No	Name	Members	Signature
1	Dr. M. Ramesh Naidu, Head, Department of Chemical Engineering, VFSTR, Vadlamudi.	Chairman, BOS	
2	Prof. Dr. J. Hayavadana, Head, OUCT, Osmania University	Invited member	Attended Online
3	Dr. D. Raja, Professor and Head, Department of Fashion Technology, Sona College of Technology, Salem. T.N.	Invited member	
4	Dr. Syamal Maiti, Assistant Director, MANTRA, Surat.	Invited member	
5	Mr. Upul Nallaperuma, General Manager- Operations, Teejay, Brandix Apparel City.	Invited member	
6	Mr. Ranjit Boumik, Head - Processing, NSL TEXTILES, Chandole.	Invited member	
7	Dr T. Saravana Kumar Director- Operations, Dev Innotech LLP, Karur. And Active Consultant.	Invited member	
8	Dr. Kubera Sampath Kumar	Internal Member	
9	Mr. M. Siva Jagadish Kumar	Internal Member	
10	Mr. Ch. Govardhana Rao	Internal Member	
11	Mr. Md. Vaseem Chavhan	Internal Member	
12	Mr. B. Venkatesh	Internal Member	
13	Mr. K. Harish Kumar	Internal Member	

Minutes of the BOS meeting

1. The chairman greeted all the BOS members.
2. The chairman emphasized broad objectives of the proposed changes in the course structure of R21 B. Tech Textile Technology program.
3. The chairman also elucidated in detail the suggestions and remarks communicated from various stakeholders.
4. The members of the BOS painstakingly observed the proposals of Department of Textile Technology in the light of suggestions made by experts and recommended a new course structure for B. Tech Technology program.
5. As the Manufacturing sector is witnessed major improvements in the area of automation with I.T& IOT applications. BOS members agreed to incorporate IT / CSE related subjects to the curriculum of B. Tech - Textile Technology Programme. This I.T Based curriculum enables the students to be ready for new and unconventional kinds of jobs (IT – Based roles in textile), Improves problem solving and design skills.
6. BoS members expressed their concern to give more emphasis to the textile technology courses compared to earlier R-19 curriculum, by reducing the fundamental courses of fashion technology. To meet the student interest, a Minor degree can be proposed in different areas of Fashion technology, Artificial Intelligence & Machine Learning.

Major Inputs from BoS:

1. Fashion Theory, Apparel Merchandising subjects can be offered as electives, instead of Core.
2. Fabric Manufacturing and Fabric structure and design courses to be combined and made into Fabric manufacturing – I and Fabric manufacturing – II.
3. Technical Textiles, syllabus to be modified and focus to be given on application wise.
4. Apparel production technology – re arranging of syllabus unit wise and reduction of some topics and to be offered in Sem - V.
5. Industrial Engineering in Textiles and Apparels - – re arranging of syllabus unit wise and reduction of some topics.
6. Textile Chemical Processing has to be divided into two subjects one should cover the preparatory and dyeing and another subject should cover the printing and finishing part
7. To see that, Basics of Textile statistics will be covered in textile testing subjects, Unit -1 as Probability & Statistics subject is not being offered in Sem –III.
8. Lab Component to be added in weaving subjects, to add more production calculation in spinning, weaving subjects.

After the discussion it is resolved to:

1. Propose and approve course structure for all 4 years of R 21 B.Tech. Programme in Textile Technology (Appendix-I).
2. Propose and approve detailed syllabus for the 4 year of B.Tech. Programme in Textile Technology with effect from the academic year 2021-22. The proposed structure and syllabus are applicable for 2021 admitted batch onwards.
3. Stakeholder's feedback is collected, analyzed and given paramount priority while designing the curriculum and their suggestions are implemented.
4. The curriculum follows choice-based credit system.
5. Major restructuring has taken place in the curriculum towards Project based learning with inclusion of Intra disciplinary, Inter-departmental and Societal centric and industry related projects.
6. Major reformation has taken place in the curriculum by offering new courses and electives such as Programming for Problem Solving, Data Structures, Engineering Chemistry, Probability and Statistics, Object Oriented Programming, Database Management System, Python Programming, Competitive Programming
7. The total percentage of syllabus revision for B. Tech Textile Technology Program is 32%.
8. The curriculum is encompassing the courses that enable employability or entrepreneurship or skill development (Appendix- II).
9. In the B.Tech. Textile Technology revised regulation R21, the significant changes are made in the content of all courses and hence the courses are considered as new courses (Appendix- III).

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DEPARTMENT OF CHEMICAL ENGINEERING**APPENDIX – I****Course Structure****I Year I Semester**

Course Title	C
Engineering Mathematics – I (D)	4
Engineering Physics (B)	4
Engineering Chemistry	2
Basics of Electrical & Electronics Engineering	4
Constitution of India	1
Engineering Graphics & Design	1
Introduction to C Programming	4
Physical Fitness, Sports & Games - I	1
Total	21

I Year II Semester

Course Title	C
Engineering Mathematics – II (D)	4
Programming for Problem Solving	4
Textile Fibers	4
English Proficiency and Communication Skills	1
Technical English Communication	3
Environmental Studies	1
Basic Engineering Products	3
Workshop	2
Physical Fitness, Sports & Games - II	1
Total	23

II Year I Semester

Course Title	C
Data Structures	3
Probability and Statistics	4
Yarn Manufacturing	3
Fabric Manufacturing -I	4
Technology of preparatory and dyeing	4
Pattern engineering Lab	2
Life Skills – I	-
Technical Seminar - I	1
Intra-Disciplinary Projects - I	1
Physical Fitness, Sports & Games - III	1
Total	23

II Year II Semester

Course Title	C
Fabric Manufacturing - II	4
Testing of fibers and Yarn	4
Technology of Knits and Nonwoven	3
Technology of Printing and Finishing	4
Open Elective - I	3
Open Elective - II	3
Life Skills – II	1
Technical Seminar - II	1
Intra-Disciplinary Projects - II	1
Total	24

III Year I Semester

Course Title	C
Testing of Fabrics and Garments	4
Apparel Production Technology	4
Advances in Yarn & Fabric Manufacturing	3
Open Elective - III	3
Human Values, Professional Ethics & Gender Equity	2
Soft Skills Laboratory	1
Employability Skills - I	-
Inter-Departmental Projects - I	2
Department Elective – I	3
Total	22

III Year II Semester

Course Title	C
Technical Textiles	3
Structural Mechanics of Fibers, Yarns and Fabrics	4
Industrial Engineering for Textiles and Apparels	4
Professional Communication Laboratory	1
Open Elective - IV	2
Mini Project	1
Modular Course	1
Employability Skills - II	1
Inter-Departmental Projects - II	2
Department Elective - II	3
Open Elective (Swayam /NPTEL)	3
Total	25

IV Year I Semester

Course Title	C
Principles of Management and Organizational Behavior	3
Costing of Textile and Apparel production	3
Process Control in Textile Manufacturing	3
Garment Design Lab	2
Societal - Centric and Industry Related Projects	3
Department Elective – III*(Swayam/NPTEL)	3
Department Elective – IV*(Swayam/NPTEL)	3
Total	20

IV Year II Semester


Course Title	C
Internship / Project work	12
Total	12

C = Credits

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

DEPARTMENT ELECTIVE COURSES

Type	Course Title	C
Department Elective	Blow Room and Carding	3
Department Elective	Preparatory Aspects of Fabric Formation	3
Department Elective	Hand Knitting and Flat Knitting	3
Department Elective	Dyes and Pigment	3
Department Elective	Fashion Product Development	3
Department Elective	Drawing, Comber and Simplex	3
Department Elective	Technology of Fabric Forming	3
Department Elective	Knitting Technology	3
Department Elective	Technology of Dyeing and Printing Machinery	3
Department Elective	Technology of Yarn Formation	3
Department Elective	Advanced Fabric Formation	3
Department Elective	Advancement in Knitting Technology	3
Department Elective	Eco-Friendly Wet Processing	3
Department Elective	Fashion Marketing and Visual Merchandising	3
Department Elective	Operations Research for Engineers	3
Department Elective	Lean and Six Sigma for Textile and Apparels	3
Department Elective	Retailing and Branding of Textiles and Apparels	3
Department Elective	Process Control and Quality Management in Textiles	3
Department Elective	Fashion Theory	3
Department Elective	Clothing Comfort	3



Chairman BoS
HEAD

Department of Chemical Engineering
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DEPARTMENT OF CHEMICAL ENGINEERING**APPENDIX - II****List of courses that enable employability or entrepreneurship or skill development in the R-21 B. Tech – Textile Technology**

Sl. No.	Semester (Year)	Course Name	Employability/ Entrepreneurship/ Skill development
1	First Year (Semester II)	Textile Fibers	Skill development
	Second Year (Semester I)		
2	Second Year (Semester I)	Yarn Manufacturing	Skill development
	Second Year (Semester I)		
3	Second Year (Semester I)	Fabric Manufacturing -I	Skill development
	Second Year (Semester I)		
4	Second Year (Semester I)	Technology of preparatory and dyeing	Skill development
	Second Year (Semester I)		
5	Second Year (Semester I)	Pattern engineering Lab	Employability
	Second Year (Semester I)		
6	Second Year (Semester II)	Fabric Manufacturing - II	Skill development
	Second Year (Semester II)		
7	Second Year (Semester II)	Testing of fibers and Yarn	Skill development
	Second Year (Semester II)		
8	Second Year (Semester II)	Technology of Knits and Nonwoven	Skill development
	Second Year (Semester II)		
9	Second Year (Semester II)	Technology of Printing and Finishing	Skill development
	Second Year (Semester II)		
10	Third Year (Semester I)	Testing of Fabrics and Garments	Skill development
	Third Year (Semester I)		
11	Third Year (Semester I)	Apparel Production Technology	Skill development
	Third Year (Semester I)		
12	Third Year (Semester I)	Advances in Yarn & Fabric Manufacturing	Skill development
	Third Year (Semester I)		
13	Third Year (Semester II)	Technical Textiles	Skill development
	Third Year (Semester II)		
14	Third Year (Semester II)	Structural Mechanics of Fibers, Yarns and Fabrics	Skill development
	Third Year (Semester II)		
15	Third Year (Semester II)	Industrial Engineering for Textiles and Apparels	Skill development
	Third Year (Semester II)		
16	Fourth Year (Semester I)	Costing of Textile and Apparel production	Skill development
	Fourth Year (Semester I)		
17	Fourth Year	Process Control in Textile	Skill development

	(Semester I)	Manufacturing	
18	Fourth Year (Semester I)	Garment Design Lab	Skill development/ Employability
19	Third Year (Semester I)	Blow Room and Carding	Skill development
20	Third Year (Semester I)	Preparatory Aspects of Fabric Formation	Skill development
21	Third Year (Semester I)	Hand Knitting and Flat Knitting	Skill development
22	Third Year (Semester I)	Dyes and Pigment	Skill development
23	Third Year (Semester I)	Fashion Product Development	Employability
24	Third Year (Semester II)	Drawing, Comber and Simplex	Skill development
25	Third Year (Semester II)	Technology of Fabric Forming	Skill development
26	Third Year (Semester II)	Knitting Technology	Skill development
27	Third Year (Semester II)	Technology of Dyeing and Printing Machinery	Skill development
28	Final Year (Semester I)	Technology of Yarn Formation	Skill development
29	Final Year (Semester I)	Advanced Fabric Formation	Skill development
30	Final Year (Semester I)	Advancement in Knitting Technology	Skill development
31	Final Year (Semester I)	Eco-Friendly Wet Processing	Skill development
32	Final Year (Semester I)	Fashion Marketing and Visual Merchandising	Skill development
33	Final Year (Semester I)	Operations Research for Engineers	Skill development
34	Final Year (Semester I)	Lean and Six Sigma for Textile and Apparels	Employability
35	Final Year (Semester I)	Retailing and Branding of Textiles and Apparels	Employability
36	Final Year (Semester I)	Process Control and Quality Management in Textiles	Skill development/ Employability
37	Final Year (Semester I)	Fashion Theory	Skill development
38	Final Year (Semester I)	Clothing Comfort	Skill development


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DEPARTMENT OF CHEMICAL ENGINEERING**APPENDIX - III****List of new courses in R-21 B. Tech - Textile Technology**

Sl. No	Semester (Year)	Course Name	Employability/ Entrepreneurship/ Skill development
1	First Year	Introduction to C Programming	Skill development
	(Semester I)		
2	First Year	Programming for Problem Solving	Skill development
	(Semester II)		
3	First Year	Textile Fibers	Skill development
	(Semester II)		
4	Second Year	Data Structures	Skill development
	(Semester I)		
5	Second Year	Yarn Manufacturing	Skill development
	(Semester I)		
6	Second Year	Fabric Manufacturing –I	Skill development
	(Semester I)		
7	Second Year	Technology of preparatory and dyeing	Skill development
	(Semester I)		
8	Second Year	Fabric Manufacturing – II	Skill development
	(Semester II)		
9	Second Year	Testing of fibers and Yarn	Skill development
	(Semester II)		
10	Second Year	Technology of Printing and Finishing	Skill development
	(Semester II)		
11	Third Year	Advances in Yarn & Fabric Manufacturing	Skill development
	(Semester I)		
12	Third Year	Testing of Fabrics and Garments	Skill development
	(Semester I)		
13	Third Year	Apparel Production Technology	Skill development
	(Semester I)		
14	Third Year	Technical Textiles	Skill development
	(Semester II)		

15	Third Year	Structural Mechanics of Fibers, Yarns and Fabrics	Skill development
	(Semester II)		
16	Third Year	Industrial Engineering for Textiles and Apparels	Skill development
	(Semester II)		
17	Fourth Year	Process Control in Textile Manufacturing	Skill development
	(Semester I)		
18	Fourth Year	Costing of Textile and Apparel production	Skill development
	(Semester I)		


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