

KLEF
DEPARTMENT OF BIOTECHNOLOGY
MINUTES OF DEPARTMENT BOS (2013-14)

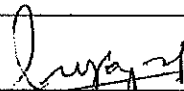

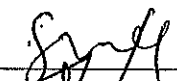

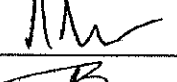
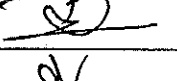

Particulars of Meeting conducted:

Type of Meeting	BOS
Department conducting the Meeting	Biotechnology
Number of the Meeting	12
Date of Meeting	22/06/2013
Time of Meeting	12:00 PM
Venue of Meeting	Faculty Conference Hall, Biotechnology

Agenda items to be discussed:

Agenda Item number	Agenda Item Description	Resolution
BT-BOS-13001	To design Y13 batch syllabus d / B-Tech according to the industrial requirements.	The BOS unanimously resolved to recommend the following Y13 Batch syllabus according to the industrial requirements. (Annexure-1)

Members Present:

S.No	Name of the person	Institution	Department	Designation	Position of the person in the meeting	Signature
1	Dr S Vijayasradhi	KLEF	Biotechnology	Associate Professor	Chairman	
2	Dr G Satyanarayana	IIT, Madras	Biotechnology	Professor	External Member	
3	K Srinivasulu	KLEF	Biotechnology	Associate Professor	Internal Member	
4	V Praveen Kumar	KLEF	Biotechnology	Assistant Professor	Internal Member	
5	Dr R Srinivasa Reddy	KLEF	Biotechnology	Associate Professor	Internal Member	
6	Dr B Mahendran	KLEF	Biotechnology	Assistant Professor	Internal Member	
7	Dr M Sudhamani	KLEF	Biotechnology	Assistant Professor	Internal Member	

Based on the feedback received by DAC, the following recommendations were approved in the BOS.

1. The syllabus (y13 B-Tech) based on the industrial requirement was approved in the BOS.

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KLEF
DEPARTMENT OF BIOTECHNOLOGY
MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING (2013-2014)

The Department Academic Committee meeting was conducted in HOD, Biotechnology, and Seminar on 15/Apr/2013 at 2:00 pm

Agenda:

1. To discuss the feedbacks received from stake holders on curriculum
2. To propose the curriculum for B-Tech and M-Tech /Y13 batch
3. Any other points with the permission of the DAC chairman

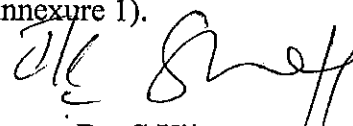
The following members were present:

- | | |
|------------------------|------------------------|
| 1. Dr.S Vijayasradhi | Head of the Department |
| 2. Dr.BJK Singh | Professor |
| 3. Dr. V Praveen Kumar | Associate Professor |
| 4. Dr.B Mahendran | Associate Professor |
| 5. Dr. M Sudhamani | Assistant Professor |
| 6. Dr K Srinivasulu | Associate Professor |

7.

The following points were discussed and resolved:

1. Upon discussing the feedback from students and faculty, the DAC discussed and resolved to recommend the BOS to consider Y13 batch syllabus design / B-Tech according to the industrial requirements (Annexure 1).
2. Upon considering above mentioned feedbacks and surveying through the policy documents in relevance to, Human Resource Development Policy, Govt. of India, National Skill Development Corporation, Govt. of India, Confederation of Indian Industries, ABET, NBA norms, AICTE statutory norms, it is resolved to propose enclosed Program development documents and curriculum for B-Tech-Biotechnology Program for Y13 for BOS approval (Annexure 1).

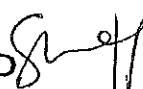


Dr. S Vijaya saradhi
(Head of the Department)

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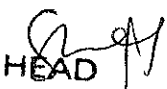
**COURSE STRUCTURE FOR B.TECH BIOTECHNOLOGY PROGRAMS FOR 2013
BATCH /B-Tech**

S.No.	Course Code	Course Title	Offered in (Even/Odd Sem.)	L-T-P	Credits	Prerequisite	Offered for
Humanities courses							
1	13HS101	English	Odd	2-0-2	3	Nil	BT
2	13HS102	Language and Reasoning skills	Even	2-0-2	3	Nil	BT
3	11BS105	Ecology & Environment	Even & Odd	2-0-0	2	Nil	BT
4	13HS104	Human values	Even & Odd	2-0-0	2	Nil	BT
Basic Science courses							
1	13BS101	Linear Algebra & Multivariant Calculus	Even	3-0-2	4	Nil	BT
2	13BS102	Differential Equations	Odd	3-1-0	4	Nil	BT
3	13BS103	Engg Physics	Odd	3-0-2	4	Nil	BT
4	11BS104	Engg Chemistry	Odd	3-0-2	4	Nil	BT
5	13BS104	Basic Mathematics	Odd	3-1-0	4	Nil	BT(Bi.PC)
6	13BS107	Organic Chemistry	Even	2-0-0	2	Nil	BT
7	13BS108	Fundamentals Of Biology	Odd	3-1-0	4	Nil	BT(MPC)
8	13BS109	Cell And Molecular Biology	Even	3-1-0	4	Nil	BT
9	13BS204	Probability And Statistics	Even	3-0-0	3	Nil	BT
Engineering Science courses							
1	13ES101	Problem Solving through Programming	Even	3-0-2	4	Nil	BT
2	13ES102	Measurements	Even	3-0-2	4	Nil	BT
3	13ES103	Engineering Materials	Even	3-0-0	3	Nil	BT
4	11ES104	Engineering Graphics with CAD	Even	0-0-4	2	Nil	BT

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5	13ES105	Workshop Practice	Odd	0-0-4	2	Nil	BT
6	13ES106	Engineering Mechanics	Odd	3-0-2	4	Nil	BT
7	13ES201	Thermodynamics	Odd	3-0-0	3	Nil	BT
8	13ES202	Object Oriented Programming	Even	3-0-2	4	13ES101	BT
9	13ES203	Network Theory	Even	3-0-2	4	Nil	BT
10	13ES204	Data Structures	Odd	3-0-2	4	13ES101	BT
11	13ES205	Signal processing	Even	3-0-2	4	Nil	BT

PROFESSIONAL CORE COURSES							
1	13BT201	Biochemistry	Odd	3-0-2	4	Nil	BT
2	13BT202	Microbiology	Odd	3-0-2	4	Nil	BT
3	13BT203	Process Engineering Principles	Odd	3-1-0	4	Nil	BT
4	13BT204	Bioanalytical Techniques	Even	3-0-2	4	Nil	BT
5	13BT301	Fluid Mechanics & Heat Transfer	Odd	3-0-2	4	Nil	BT
6	13BT302	Genetic Engineering	Odd	3-0-2	4	Nil	BT
7	13BT303	Bioinformatics	Odd	3-0-2	4	Nil	BT
8	13BT304	Fermentation Technology	Odd	3-0-2	4	Nil	BT
9	13BT305	Biochemical Reaction Engineering	Even	3-0-2	4	Nil	BT
10	13BT306	Immunology	Even	3-0-2	4	Nil	BT
11	13BT307	Food Technology	Even	3-0-2	4	Nil	BT
12	13BT308	Plant & Animal Biotechnology	Even	3-0-2	4	Nil	BT
13	13BT401	Mass Transfer Operations	Odd	3-0-2	4	Nil	BT
14	13BT402	Downstream processing	Odd	3-0-2	4	Nil	BT
Professional electives							
Genetic Engineering- Specialization Stream							
1	13BT33 1	Molecular Genetics and DNA Forensics	Even	3-0-0	3	Nil	BT
2	13BT33 2	Transgenic technology	Even	3-0-0	3	Nil	BT
3	13BT43 1	Genomics and Proteomics	Odd	3-0-0	3	Nil	BT



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4	13BT43	Molecular Expression Technology	Odd	3-0-0	3	Nil	BT
5	13BT433	Molecular markers and Diagnostics	Odd	3-0-0	3	Nil	BT
Bioinformatics - Specialization Stream							
1	13BT33	Molecular modeling and drug design	Even	3-0-0	3	Nil	BT
2	13BT33	Bioperl and PERL programming	Even	3-0-0	3	Nil	BT
3	13BT43	Biomedical Informatics	Odd	3-0-0	3	Nil	BT
4	13BT43	Structural Biology	Odd	3-0-0	3	Nil	BT
5	13BT436	Data base management systems	Odd	3-0-0	3	Nil	BT
Immunology - Specialization Stream							
1	13BT335	Immunotechnology	Even	3-0-0	3	Nil	BT
2	13BT336	Stem cell technology	Even	3-0-0	3	Nil	BT
3	13BT437	Medical Biotechnology	Odd	3-0-0	3	Nil	BT
4	13BT438	Cancer Biology	Odd	3-0-0	3	Nil	BT
5	13BT439	Neurobiology	Odd	3-0-0	3	Nil	BT
Industrial Biotechnology - SPECIALIZATION STREAM							
1	13BT337	Microbial Technology	Even	3-0-0	3	Nil	BT
2	13BT338	Pharmaceutical Biotechnology	Even	3-0-0	3	Nil	BT
3	13BT440	Bioprocess Economics and Plant Design	Odd	3-0-0	3	Nil	BT
4	13BT441	Algal Biotechnology	Odd	3-0-0	3	Nil	BT
5	13BT442	Metabolic Engineering	Odd	3-0-0	3	Nil	BT

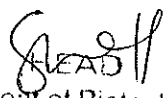
Additional Courses for B.Tech with Honor's Degree (Biotechnology)							
1	13BT547	Biocatalysis and enzyme mechanisms	Even & Odd	3-0-2	4	13BT201	BT
2	13BT507	Bioreactor modelling and simulation	Even & Odd	3-0-2	4	13BT305	BT
3	13BT530	Protein Engineering	Even & Odd	3-0-2	4	13BT302	BT
4	13BT535	Transport phenomenon in bioprocess	Even & Odd	3-0-2	4	13BT401	BT
5	13BT536	Biomining	Even & Odd	3-0-2	4	13BT401	BT
OPEN ELECTIVES							
1.	110E408	IPR & Patent Laws	Even &	3-0-0	3	NIL	ALL B.Tech


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			Odd				except BT
2.	11OE411	Regulatory affairs and Clinical trails	Even & Odd	3-0-0	3	NIL	ALL B.Tech except BT
3.	13OE432	Biosafety and Bioethics	Even & Odd	3-0-0	3	NIL	ALL B.Tech except BT
4.	13OE433	Environmental Biotechnology	Even & Odd	3-0-0	3	NIL	ALL B.Tech except BT
5.	13OE434	Product validation & Quality Control	Even & Odd	3-0-0	3	NIL	ALL B.Tech except BT
6.	11OE309	Remote Sensing & Gis	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CE
7.	11OE310	Environmental Pollution Control Methods	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CE
8.	11OE311	Spatial Data Analysis And Modelling	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CE
9.	11OE414	Disaster Management	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CE
10.	11OE415	Image Interpretation Using Remote Sensing	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CE
11.	11OE416	Solid And Hazardous Waste Management	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CE
12.	11OE422	Optical Engineering	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECE
13.	13OE423	Image Processing	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECE
14.	11OE424	Mobile Communication	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECE
15.	11OE431	Radar Systems	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECE
16.	11OE425	Linear Control Systems	Even & Odd	3-0-0	3	NIL	ALL B.Tech except EEE
17.	11OE426	Renewable Energy Resources	Even & Odd	3-0-0	3	NIL	ALL B.Tech except EEE
18.	11OE427	Power System Engineering	Even & Odd	3-0-0	3	NIL	ALL B.Tech except EEE
19.	11OE428	Illumination & Traction	Even & Odd	3-0-0	3	NIL	ALL B.Tech except EEE
20.	11OE430	Energy Estimation & Audit	Even & Odd	3-0-0	3	NIL	ALL B.Tech except EEE
21.	11OE432	Dataware Housing And Mining	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECM,CSE
22.	11OE433	E-Commerce	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECM,CSE
23.	13OE421	Linux Programing	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECM,CSE


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24.	12OE447	Internet Technologies	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECM,CSE
25.	12OE441	Television Engineering	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECM, ECE
26.	11OE439	Embedded Technologies	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECM, ECE
27.	13OE429	Fundamentals of IT	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CSE,ECM
28.	12OE445	Fundamentals of DBMS	Even & Odd	3-0-0	3	NIL	ALL B.Tech except CSE,ECM
29.	12OE443	Robotics	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ME
30.	12OE442	Mechatronics	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ME
31.	13OE427	Operations Research	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ME
32.	13OE430	Self Development	Even & Odd	3-0-0	3	NIL	ALL B.TECH
33.	13OE431	Indian Culture and History	Even & Odd	3-0-0	3	NIL	ALL B.TECH
34.	13OE432	Animation For Engineers	Even & Odd	3-0-0	3	NIL	ALL B.Tech
35.	13OE433	Photography	Even & Odd	3-0-0	3	NIL	ALL B.Tech
36.	13OE435	Intelligent Visual Surveillance	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ME
37.	13OE436	Total Quality Management	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ME
38.	13OE437	Industrial Engineering & Management	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ME
39.	13OE475	Measurements & Instrumentation	Even & Odd	3-0-0	3	NIL	ALL B.Tech except ECM, ECE
40.	12OE453	Nano Materials and Technology	Even & Odd	3-0-0	3	NIL	ALL B.TECH
41.	13ES202	Object Oriented Programming	Even	3-0-2	4	13ES101	Only for CE
42.	13ES204	Data Structures	odd	3-0-2	4	13ES101	Only for CE
43.	13ES205	Signal processing	Even	3-0-2	4	Nil	Only for CE
Additional Courses for B.Tech with Minor's Degree NANO TECHNOLOGY(MINOR GROUP)							
1	11OE401	Polymer Nano Composites	Even & Odd	3-0-0	3	NIL	ALL B.Tech
2	13OE451	Introduction to Nano Technology	Even & Odd	3-0-0	3	NIL	ALL B.Tech
3	13OE452	Nano Materials for	Even &	3-0-0	3	NIL	ALL B.Tech


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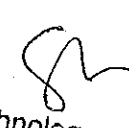
		Energy & Management	Odd				
4	11OE403	Characterization of Nano Materials	Even & Odd	3-0-0	3	NIL	ALL B.Tech
5	13OE453	Micro & Nano Fabrications	Even & Odd	3-0-0	3	NIL	ALL B.Tech
6	11OE405	Nano Fluids / Science & Technology	Even & Odd	3-0-0	3	NIL	ALL B.Tech
INDUSTRIAL ENGINEERING (MINOR GROUP)							
7	12OE440	Industrial Engineering Techniques	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EC,EM,EE,PE
8	11OE434	Operations Research	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EC,EM,EE,PE
9	13OE454	Engineering Management	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EC,EM,EE,PE
10	11OE404	Work study & Ergonomics	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EC,EM,EE,PE
11	11OE406	Operations Management	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EC,EM,EE,PE
COMPUTING(MINOR GROUP)							
12	13OE455	Principles of Operating System	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
13	13OE456	Algorithm design and analysis	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
14	13OE457	Theory of Computation	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
15	13OE458	Parallel Processing	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
16	13OE459	Data Analytics	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
Additional Courses for B.Tech with Minor's Degree in WEB PROGRAMMING							
1	13OE461	Foundations for web development	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
2	13OE462	Client side web Development	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
3	13OE463	Web Application development on server side	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
4	13OE464	Web Application development through .NET Framework	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
5	13OE465	Component based Web Development through EJB	Even & Odd	3-0-0	3	NIL	BT,CE,EC,EE,ME,PE
BIO INFORMATICS(MINOR GROUP)							
24	13OE466	Basic Biology	Even &	3-0-0	3	NIL	CE,CS,EC,EE,ME


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			Odd				,PE,EM
25	13OE467	BIOINFORMATICS	Even & Odd	3-0-0	3	NIL	CE,CS,EC,EE,ME,PE,EM
26	13OE468	Molecular Modelling & Drug Design	Even & Odd	3-0-0	3	NIL	CE,CS,EC,EE,ME,PE,EM
27	13OE469	Bio Perl & Perl Programming	Even & Odd	3-0-0	3	NIL	CE,CS,EC,EE,ME,PE,EM
28	13OE470	Bio Mining Genomics & Proteomics	Even & Odd	3-0-0	3	NIL	CE,CS,EC,EE,ME,PE,EM
ELECTRONICS(MINOR GROUP)							
29	13OE471	Electronic Devices	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EE,ME,PE
30	13OE472	Digital Electronics	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EE,ME,PE
31	13OE473	Analog Electronics	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EE,ME,PE
32	13OE420	Pulse & Digital Circuits	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EE,ME,PE
33	13OE474	Linear Integrated Circuits	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EE,ME,PE
34	13OE475	Measurements & Instrumentation	Even & Odd	3-0-0	3	NIL	BT,CE,CS,EE,ME,PE
ELECTRICAL POWER ENGINEERING(MINOR GROUP)							
35	13OE476	Electrical Circuits	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
36	13OE477	Electrical Machines	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
37	13OE478	Electrical Power Generation	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
38	13OE479	Transmission & Distribution	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
39	13OE480	Power System Analysis & Protection	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
40	11OE429	Utilization of Electrical Power	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
ELECTRICAL MACHINES(MINOR GROUP)							
41	13OE476	Electrical Circuits	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
42	13OE477	Electrical Machines	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
43	13OE483	Advanced Control Systems	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
44	13OE484	Power Electronics Devices & Circuits	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
45	13OE485	Power Semi-Conductor	Even &	3-0-0	3	NIL	ECE, ECM, ME

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		& Drives	Odd				
46	13OE486	Special Machines	Even & Odd	3-0-0	3	NIL	ECE, ECM, ME
DIGITAL DESIGN(MINOR GROUP)							
47	13OE487	System on Chip Architecture	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT ECE
48	13OE488	Digital Signal Processing	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT ECE
49	13OE489	VLSI Design	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT ECE
50	13OE490	Switching Theory & Logic Design	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT ECE
51	13OE491	Computer Organization	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT ECE
52	13OE492	Microprocessors & Interfacing	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT ECE
GEO INFORMATICS(MINOR GROUP)							
53	13OE493	Fundamentals of Geospatial Technology	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT CE
54	13OE494	Geographical Information system	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT CE
55	13OE495	Environmental Geoinformatics	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT CE
56	13OE496	GIS data Analysis & Modelling	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT CE
57	13OE497	Geospatial technology for Natural Resources & Disaster Management	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT CE
58	13OE498	Geospatial Applications	Even & Odd	3-0-0	3	NIL	ALL B.TECH EXCEPT CE
Management(HS) Electives							
1	11HS201	Emotional Intelligence	Even & Odd	3-0-0	3	NIL	ALL B.TECH
2	11HS202	Paradigms in Management Thought	Even & Odd	3-0-0	3	NIL	ALL B.TECH
3	11HS203	Indian Economy	Even & Odd	3-0-0	3	NIL	ALL B.TECH
4	11HS205	Professional Ethics & Values	Even & Odd	3-0-0	3	NIL	ALL B.TECH
5	11HS206	Behavioral Sciences	Even & Odd	3-0-0	3	NIL	ALL B.TECH
6	11HS208	Managing Personal Finances	Even & Odd	3-0-0	3	NIL	ALL B.TECH
7	11HS209	Basics of Marketing for Engineers	Even & Odd	3-0-0	3	NIL	ALL B.TECH

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8	11HS210	Self Management	Even & Odd	3-0-0	3	NIL	ALL B.TECH
9	11HS211	Organization Management	Even & Odd	3-0-0	3	NIL	ALL B.TECH
10	13HS212	Construction Project Management	Even & Odd	3-0-0	3	NIL	ALL B.TECH
11	11OE414	Disaster Management	Even & Odd	3-0-0	3	NIL	ALL B.TECH
12	11HS212	Resource Safety & Quality Management	Even & Odd	3-0-0	3	NIL	ALL B.TECH
13	13OE422	Water	Even & Odd	3-0-0	3	NIL	ALL B.TECH
14	13HS214	Event Management	Even & Odd	3-0-0	3	NIL	ALL B.TECH
15	13HS215	Public Administration	Even & Odd	3-0-0	3	NIL	ALL B.TECH
AUDITED COURSES							
1	13AC201	Energy & Society	Even & Odd	2-0-0	NIL	NIL	ALL B.TECH
2	13AC202	Employability Skills	Even & Odd	1-0-2	NIL	NIL	ALL B.TECH
3	13AC301	Advanced Employability Skills	Even & Odd	1-0-2	NIL	13AC202	ALL B.TECH
4	13AC203	Sports / Games / Yoga	Even & Odd	0-0-2	NIL	NIL	ALL B.TECH
5	13AC204	NCC /NSS /NSO/ CEA	Even & Odd		NIL	NIL	ALL B.TECH
6	13AC302	Quantitative Aptitude and Reasoning	Even & Odd	0-0-2	NIL	NIL	ALL B.TECH
NON-CREDIT COURSES:							
1	13NC201	Certificate Courses-1		--	NIL	NIL	ALL B.TECH
2	13NC202	Certificate Courses-2		--	NIL	NIL	ALL B.TECH
Term Paper							
1	13TP401	Term Paper		0-0-4	2	NIL	ALL B.TECH
Final Year Project							
1	13PW401	Final year Project	Even	0-0-24	12	NIL	ALL B.TECH
2	13PS401	Practice School	Even			NIL	ALL B.TECH
3	13IS201	Industrial Training		4 Weeks	NC	NIL	ALL B.TECH

HEAD 
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