

**Department of Basic Science and Humanities****DEPARTMENT OF MATHEMATICS****MINUTES OF 2<sup>nd</sup> BOARD OF STUDIES MEETING****Virtual Mode, Date: 16-08-2024 @ 2.30 pm**

The board of studies meeting was held on **16<sup>th</sup> August ,2024** in the Department of **Mathematics** to discuss the following points for R23 regulations of II B.Tech I Sem & II Sem based on the model syllabus given by AICTE & JNTUK

Detailed discussion on the following has been done .

- Implementation of Courses under R23 regulations
- Discussions on the allocation of Branches in CIVIL,EEE,MECHANICAL,CSE,CSE-DS,AIIML
- Course out comes & Mapping with PO statement along with justification
- Innovation teaching & Evaluation Techniques in Mathematics
- Implementation of curriculum as per NEP ( New education policy)
- Various steps to improve the skills & Knowledge of the students

**CIVIL ENGINEERING (V23- II<sup>nd</sup> YEAR COURSE STRUCTURE & SYLLABUS)**

S.No.	Category	Title	L	T	P	Credits
1	BS	Numerical Techniques And Statistical Methods	3	0	0	3
2	HSMC	Universal human values – understanding harmony and Ethical human conduct	2	1	0	3
3	Engineering Science	Surveying	3	0	0	3
4	Professional Core	Strength of Materials	3	0	0	3
5	Professional Core	Fluid Mechanics	3	0	0	3
6	Professional Core	Surveying Lab	0	0	3	1.5
7	Professional Core	Strength of Materials Lab	0	0	3	1.5
8	Skill Enhancement Course	Building Planning and Drawing	0	1	2	2
<b>Total</b>			<b>14</b>	<b>2</b>	<b>8</b>	<b>20</b>
9	Audit Course	Environmental Science	2	0	0	-

MECHANICAL ENGINEERING (V23-II<sup>nd</sup> YEAR COURSE STRUCTURE & SYLLABUS)

B.Tech II Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	BS	Numerical Methods and Transform Techniques	3	0	0	3
2	HSMC	Universal Human Values– Understanding Harmony & Ethical Human Conduct	2	1	0	3
3	Engineering Science	Thermo dynamics	2	0	0	2
4	Professional Core	Mechanics of Solids	3	0	0	3
5	Professional Core	Material Science and Metallurgy	3	0	0	3
6	Professional Core	Mechanics of Solids and Materials Science Lab	0	0	3	1.5
7	Professional Core	Computer-aided Machine Drawing	0	0	3	1.5
8	Engineering Science	Python programming Lab	0	0	2	1.0
9	Skill Enhancement Course	Embedded Systems and IoT	0	1	2	2
10	Audit Course	Environmental Science	2	0	0	-
<b>Total</b>			<b>15</b>	<b>2</b>	<b>10</b>	<b>20</b>

B.Tech. II Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Management Course- I	Industrial Management	2	0	0	2
2	Basic Science	Complex Variables, Probability and Statistics	3	0	0	3
3	Professional Core	Manufacturing processes	3	0	0	3
4	Professional Core	Fluid Mechanics & Hydraulic Machines	3	0	0	3
5	Professional Core	Theory of Machines	3	0	0	3
6	Professional Core	Fluid Mechanics & Hydraulic Machines Lab	0	0	3	1.5
7	Professional Core	Manufacturing processes Lab	0	0	3	1.5
8	Skill Enhancement course	Soft Skills	0	1	2	2
9	Engineering Science	Design Thinking & Innovation	1	0	2	2
<b>Total</b>			<b>15</b>	<b>1</b>	<b>10</b>	<b>21</b>
Mandatory Community Service Project Internship of 08 weeks duration during summer Vacation						

**ELECTRICAL AND ELECTRONICS ENGINEERING**  
**(R23-II<sup>nd</sup> Year COURSE STRUCTURE & SYLLABUS)**  
**B.Tech. II Year-I Semester**

<i>S.No</i>	<i>Category</i>	<i>Title</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>C</i>
1	BS	Complex Variables & Numerical Methods	3	0	0	3
2	HSMC	Universal human values – understanding harmony and Ethical human conduct	2	1	0	3
3	Engineering Science	Electro magnetic Field Theory	3	0	0	3
4	Professional Core	Electrical Circuit Analysis-II	3	0	0	3
5	Professional Core	DC Machines & Transformers	3	0	0	3
6	Professional Core	Electrical Circuit Analysis-II And Simulation Lab	0	0	3	1.5
7	Professional Core	DC Machines & Transformers Lab	0	0	3	1.5
8	Skill Enhancement Course	Data Structures Lab	0	1	2	2
9	Audit Course	Environmental Science	2	0	0	-
<b>Total</b>			<b>15</b>	<b>2</b>	<b>10</b>	<b>20</b>

**Decision:** Noted and approved the course structure, Syllabus

CSE(DS V23-IIIndYEARCOURSESTRUCTURE&SYLLABUS)

**B.Tech– II Year I Semester**

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Discrete Mathematics & Graph Theory	3	0	0	3
2	BS&H	Universal human values – understanding harmony and Ethical human conduct	2	1	0	3
3	Engineering Science	Introduction to Data Science	3	0	0	3
4	Professional Core	Advanced Data Structures & Algorithms Analysis	3	0	0	3
5	Professional Core	Object-Oriented Programming Through JAVA	3	0	0	3
6	Professional Core	Data Science Lab	0	0	3	1.5
7	Professional Core	Object-Oriented Programming Through JAVA Lab	0	0	3	1.5
8	Skill Enhancement course	Python programming	0	1	2	2
9	Audit Course	Environmental Science	2	0	0	-
<b>Total</b>			<b>15</b>	<b>2</b>	<b>10</b>	<b>20</b>

**B.Tech– II Year II Semester**

S.No.	Category	Title	L	T	P	Credits
1	Management Course-I	Optimization Techniques	2	0	0	2
2	Engineering Science/Basic Science	Statistical methods for Data science	3	0	0	3
3	Professional Core	Data Engineering	3	0	0	3
4	Professional Core	DBMS	3	0	0	3
5	Professional Core	Digital Logic and Computer Organization	3	0	0	3
7	Professional Core	Data Engineering Lab	0	0	3	1.5
8	Professional Core	DBMS Lab	0	0	3	1.5
9	Skill Enhancement course	Exploratory Data Analysis with Python	0	1	2	2
10	BS&H	Design Thinking & Innovation	1	0	2	2
<b>Total</b>			<b>15</b>	<b>1</b>	<b>10</b>	<b>21</b>
Mandatory Community Service Project Internship of 08 weeks duration during summer Vacation						

**Decision:** Noted and approved the course structure, Syllabus

**B.Tech CSE (V23-IIInd) COURSE STRUCTURE & SYLLABUS**  
**B.Tech.-II Year I Semester**

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Discrete Mathematics & Graph Theory	3	0	0	3
2	BS&H	Universal human values – understanding harmony and Ethical human conduct	2	1	0	3
3	Engineering Science	Digital Logic & Computer Organization	3	0	0	3
4	Professional Core	Advanced Data Structures & Algorithm Analysis	3	0	0	3
5	Professional Core	Object Oriented Programming Through Java	3	0	0	3
6	Professional Core	Advanced Data Structures and Algorithm Analysis Lab	0	0	3	1.5
7	Professional Core	Object Oriented Programming Through Java Lab	0	0	3	1.5
8	Skill Enhancement Course	Python Programming	0	1	2	2
9	Audit Course	Environmental Science	2	0	0	-
<b>Total</b>			<b>16</b>	<b>2</b>	<b>8</b>	<b>20</b>

**B.Tech.-II Year II Semester**

S.No.	Category	Title	L	T	P	Credits
1	Management Course-I	Managerial Economics and Financial Analysis	2	0	0	2
2	Engineering Science/ Basic Science	Probability & Statistics	3	0	0	3
3	Professional Core	Operating Systems	3	0	0	3
4	Professional Core	Database Management Systems	3	0	0	3
5	Professional Core	Software Engineering	2	1	0	3
6	Professional Core	Operating Systems Lab	0	0	3	1.5
7	Professional Core	Database Management Systems Lab	0	0	3	1.5
8	Skill Enhancement Course	Full Stack Development-I	0	1	2	2
9	BS&H	Design Thinking & Innovation	1	0	2	2
<b>Total</b>			<b>14</b>	<b>2</b>	<b>10</b>	<b>21</b>
Mandatory Community Service Project Internship of 08 weeks duration during Summer vacation						

**Decision:** Noted and approved the course structure, Syllabus

**A. The following items were also discussed and approved.**

Course structure for II B.Tech –I Semester & II Semester courses of R-23 regulations.  
Changes of Course Outcomes & Mapping with PO statement along with justification.  
Detailed syllabus of II B.Tech 1 semester& II Semester along with outcomes of each course.

**B. The following are the courses proposed for II B.Tech 1 & II Semesters**

**II B.Tech:**

I &II Semester Numerical Techniques And Statistical Methods(CIVIL)  
Numerical Methods and Transform Techniques(MECHANICAL)  
Complex Variables & Numerical Methods(EEE)  
Discrete mathematics & Graph theory(CSE-DS, ,CSEAIML)  
Complex Variables, Probability and Statistics(MECH)  
Probability& statistics(CSE,AIML)  
Statistical methods for Data Science(CSE-DS)

**Suggestions given by the experts during BOS-2024**

**Subject : Mathematics**

Board of studies for the academic year **2024-25** was conducted on **16<sup>th</sup> August ,2024**.The meeting was chaired by Mr V J Moses .HoD.BS&H.While all the members of faculty of Mathematics participated along with subject experts in professor cadre from reputed universities .After clearly discussing each and every unit in each paper of Mathematics,the board has finalized the syllabi for new regulation (R23) with few suggestions .  
The finalized papers are enclosed here with attested by the experts .

❖ A few changes ( additions and deletions ) are made with the suggestions of University nominees and Subject experts (R23 regulations )

**1. In regarding Mathematics**

\* In Sem-I :In the course of Numerical techniques & statistical methods offered to civil, Central differences-Bassels&stirling formulas topics are added in Unit-I.

- In the course of Numerical techniques & statistical methods offered to civil, Modified Euler's method is added in Unit-II
- In the course of Numerical techniques & statistical methods offered to civil, Numerical Methods and Transform Techniques offered to Mechanical, Complex variables & Numerical methods offered to EEE The EULER METHOD, MODIFIED EULER METHOD,R-K METHOD (2&4 ORDER) Should Come under Single step Method in Unit II.

- In the course of Numerical techniques & statistical methods offered to civil, Numerical Methods and Transform Techniques offered to mechanical, the methods Milne's predictor & corrector Method should come under Multi-step Method in Unit II
- In the course of Numerical Methods and Transform Techniques offered to mechanical Newton –Raphson method along with simultaneous one variable method is added in Unit-I
- In sem II for CSE-DS branch specific subject name was changed as Statistical methods for Data Science(CSE-DS) in the name of Probability& statistics

*After reviewing the submitted syllabus , again it was scrutinized by Dr Kasiviswanath garu NIT, Warangal and Member BoS , SVIST. And suggested the following :*

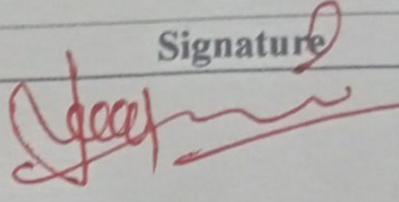
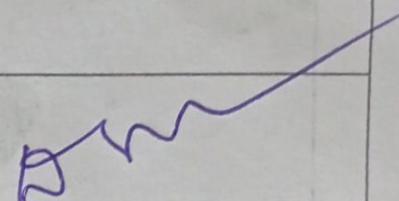
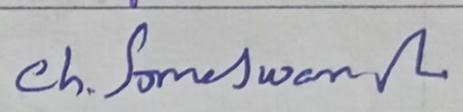
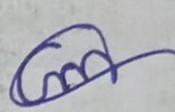
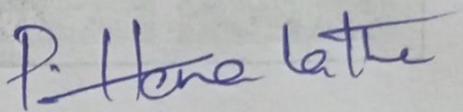
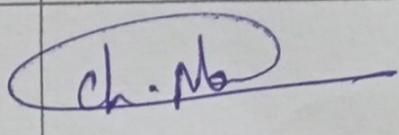
- In the course of Numerical techniques & statistical methods offered to civil, Complex Variables& Probability and Statistics offered to mechanical, Statistical methods for Data science, & Probability and Statistics offered to CSE  $\chi^2$  Test for goodness of fit topic is added in Unit V.
- \* In the course of Complex variables & Numerical methods offered to EEE Modified Eulers method is added in Unit II.
- In the course of Complex Variables& Probability and Statistics offered to mechanical Engg, Removable singularities is added in types of singularities in Unit-II.
- In the course of Numerical Methods and Transform Techniques offered to mechanical Engg. Modified Euler's method is added in Unit II.

*Students involvement should be more than teacher's in everyday class*

# Department of Mathematics

## Department Composition of Board of Studies:

The following members are drafted as internal members to Board of Studies for the Department of Mathematics

S.No	Name and Designation of Member	Signature
1	Chairperson : Mr. V J Moses , Assoc. Professor & HOD	
<b>UNIVERSITY NOMINEE</b>		
1	Dr. Kasi Viswanadham KNS Professor NIT Warangal Mobile :9866028867 Email :kasi@nitw.ac.in	Present (Online)
<b>SUBJECT EXPERT</b>		
2	Dr. V.Ravindranath Head&ProfessorofMathematics. JNTUKakinada. Andhra Pradesh Mobile: 9948083686., Email Id: <a href="mailto:Nathvr@yahoo.com">Nathvr@yahoo.com</a>	Present (Online)
<b>FACULTY ( INTERNAL ) MEMBERS</b>		
1	Mr. D. Sai Pratap Kumar HoD&Assoc.Professor	
2	Mr. Ch.Someswararao , Asst Professor	
3	Mr. G .Nagarjuna , Asst.Professor	
4	Smt P Hemalatha , Asst. Professor	
5	Mr.Ch.Narasimharao , Asst. Professor	

# MATHEMATICS BOARD OF STUDIES –II MEET

Date : 16.08.2024

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SREE VAHINI UNIVERSITY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF MATHEMATICS  
II Year II Semester  
PROBABILITY AND STATISTICS

**Course Objectives:**

- To familiarize the students with the foundations of probability and statistical methods
- To discuss probability concepts and statistical methods in various applications (Engineering)

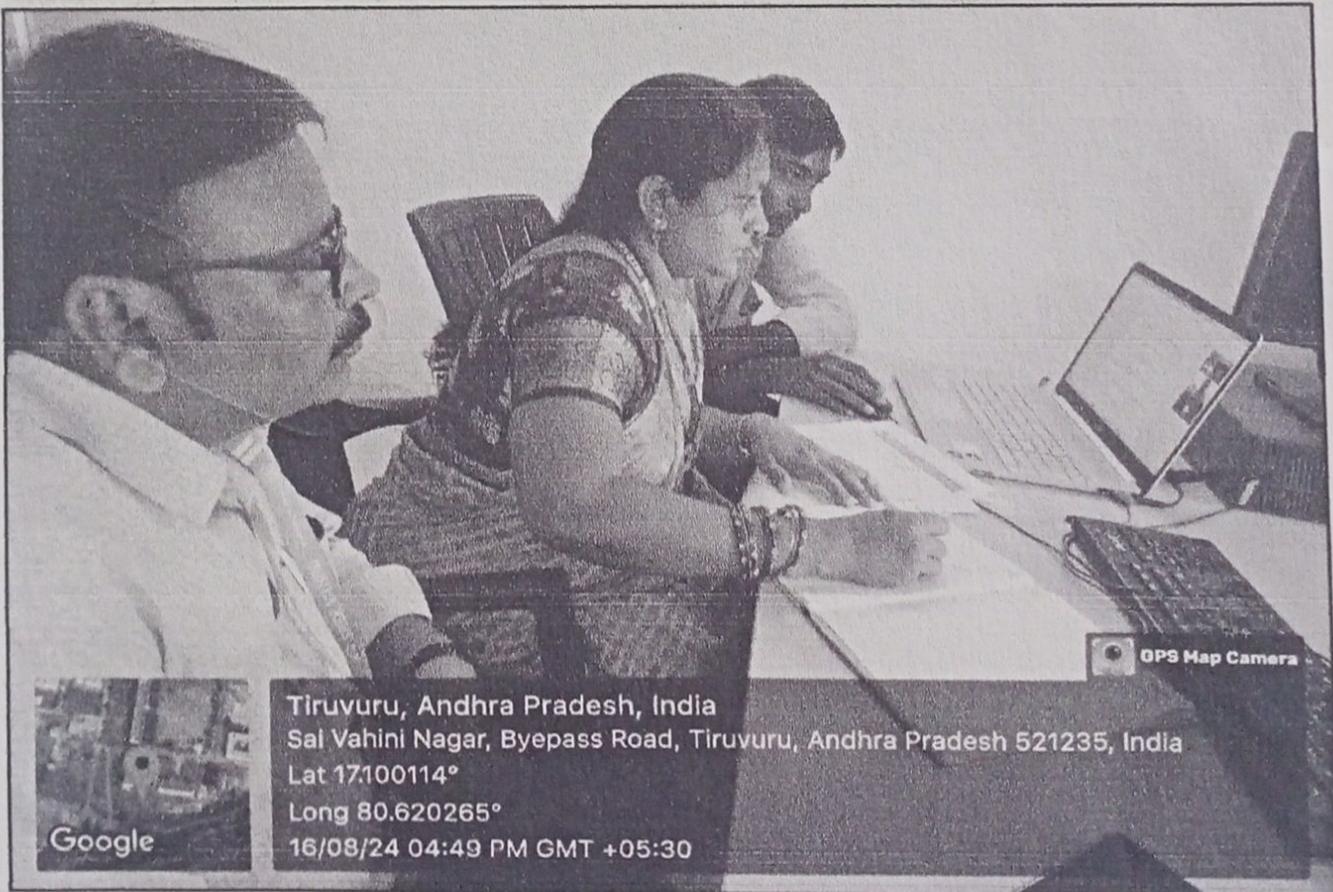
**Course Outcomes:** Upon successful completion of this course, the student should be able to

- Classify the concepts of data science and its importance (L1)
- Interpret the association of characteristics and through correlation and regression method (L1)
- Apply discrete and continuous probability distributions (L1)
- Design the components of a statistical hypothesis test (L1)
- Inter the statistical inferential methods based on small and large sampling (L1)

**Unit - I: Descriptive statistics and methods for data science.**  
Data science - Spurious relationships - Prediction on Simple, Exponential and Continuous variables  
Data visualization - Measures of Central tendency - Measures of Variability - Skewness - Kurtosis

**UNIT - II: Correlation and Regression**  
Correlation - Correlation coefficient - Rank correlation  
Linear Regression: Straight line - Multiple Linear Regression - Regression coefficients and properties  
- Curvilinear Regression: Parabolic - Exponential - Power series

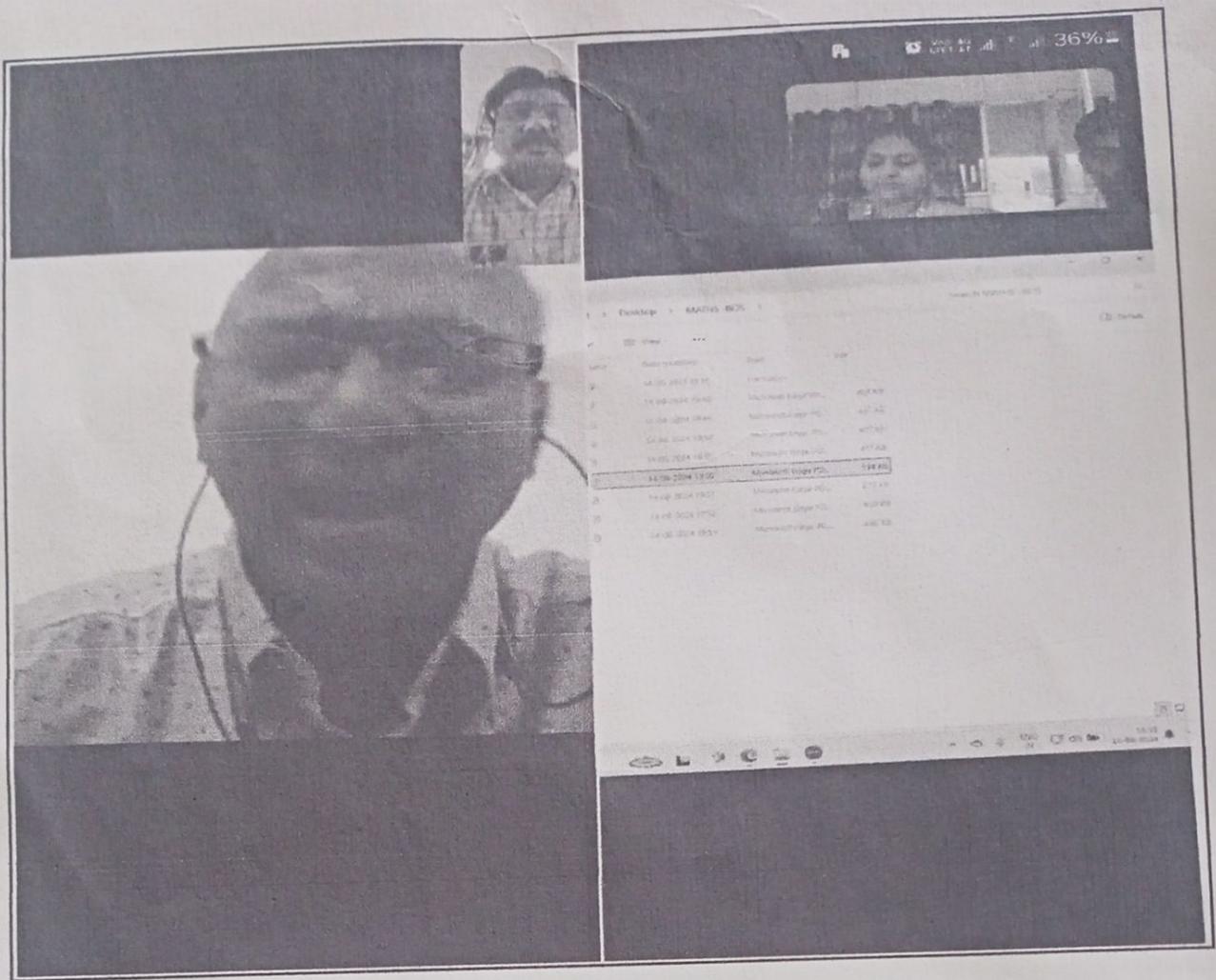
R Nagendra Babu's screen

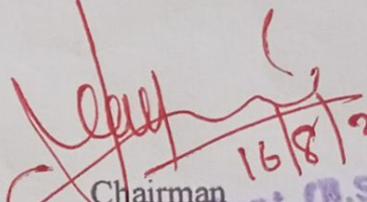


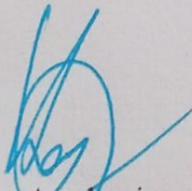
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Sal Vahini Nagar, Bypass Road, Tiruvuru, Andhra Pradesh 521235, India  
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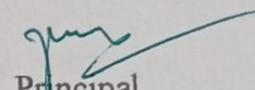


  
 16/8/2024  
 Chairman  
 Board of Studies  
 Dept. (B.Sc.H.)  
 Sree Vahini Institute of  
 Science & Technology  
 Tiruvuru-521 235-Krishna



Dean Academics  
**DEAN ACADEMICS**

VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY  
 TIRUVURU-521 235, KRISHNA, AP.

  
 Principal

Principal  
 Sree Vahini Institute of Science and Technology  
 TIRUVURU-521235

8/27/24, 4:37 PM

Sree Vahini Institute of Science and Technology Mail - Modified syllabus - V23- BOS meeting - sent for your approval - Regd



freshman hod <freshmanhod@sreevahini.edu.in>

## Modified syllabus - V23- BOS meeting - sent for your approval - Regd

Kasi Viswanadham K N S <kasi@nitw.ac.in>  
To: freshman hod <freshmanhod@sreevahini.edu.in>

Sun, Aug 25, 2024 at 9:14 PM

Dear Madam,

I have gone through the corrected files.

You have almost made the corrections suggested in the BOS meeting. Still, some are missing as suggested in the meeting.

I am giving those missings below.

1. In the course of Complex Variables and Numerical Methods offered to EEE, Modified Euler's method is to be added (single step method) in Unit-II
2. In the course of Probability and Statistics offered to CSE, Chisquare test for goodness of fit in Unit-V is to be added along with the existing topics.
3. In the course of Complex Variables, Probability and Statistics offered to Mechanical Engg., Removable singularities is to be added in types of singularities of Unit-II.
4. In the course of Numerical Methods and Transformation Techniques offered to Mechanical Engg., Modified Euler's method is to be added (single step method) in Unit-II.

Please include the above and it is approved from my side.

With regards.

[Quoted text hidden]

—

Prof.K.N.S.Kasi Viswanadham

Department of Mathematics

National Institute of Technology

Warangal - 506 004 (INDIA)

Mobile: +91- 98660 28867

**Department of Basic Science and Humanities**

**DEPARTMENT OF CHEMISTRY**

**MINUTES OF 2<sup>nd</sup> BOARD OF STUDIES MEETING**

**Virtual Mode, Date: 19-08-2024@ 12.30pm**

The board of studies meeting was held on **19<sup>th</sup> August, 2024** in the **Department of Chemistry** to discuss the following points for R23 regulations of II B.Tech I Sem based on the model syllabus given by AICTE & JNTUK

**Detailed discussion on the following has been done.**

- Implementation of Courses under V23 regulations
- Discussions on the allocation of Branches in CIVIL, EEE, MECHANICAL, CSE, CSE-DS, AIML.
- Course out comes & Mapping with PO statement along with justification
- Innovation teaching & Evaluation Techniques
- Implementation of curriculum as per NEP ( New education policy)
- Various steps to improve the skills & Knowledge of the students

**II B.Tech CSE**

**(V 23-II nd COURSE STRUCTURE & SYLLABUS)**

**B.Tech.– II Year I Semester**

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Discrete Mathematics & Graph Theory	3	0	0	3
2	BS&H	Universal human values – understanding harmony and Ethical human conduct	2	1	0	3
3	Engineering Science	Digital Logic & Computer Organization	3	0	0	3
4	Professional Core	Advanced Data Structures & Algorithm Analysis	3	0	0	3
5	Professional Core	Object Oriented Programming Through Java	3	0	0	3
6	Professional Core	Advanced Data Structures and Algorithm Analysis Lab	0	0	3	1.5
7	Professional Core	Object Oriented Programming Through Java Lab	0	0	3	1.5
8	Skill Enhancement Course	Python Programming	0	1	2	2
9	Audit Course	<b>Environmental Science</b>	2	0	0	-
<b>Total</b>			<b>16</b>	<b>2</b>	<b>8</b>	<b>20</b>

**II B.Tech CSE (DS)**  
**(V23-II nd YEAR COURSE STRUCTURE & SYLLABUS)**

**B. Tech – II Year I Semester**

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Discrete Mathematics & Graph Theory	3	0	0	3
2	BS&H	Universal human values – understanding harmony and Ethical human conduct	2	1	0	3
3	Engineering Science	Introduction to Data Science	3	0	0	3
4	Professional Core	Advanced Data Structures & Algorithms Analysis	3	0	0	3
5	Professional Core	Object-Oriented Programming Through JAVA	3	0	0	3
6	Professional Core	Data Science Lab	0	0	3	1.5
7	Professional Core	Object-Oriented Programming Through JAVA Lab	0	0	3	1.5
8	Skill Enhancement course	Python programming	0	1	2	2
9	Audit Course	Environmental Science	2	0	0	-
<b>Total</b>			<b>15</b>	<b>2</b>	<b>10</b>	<b>20</b>

**Decision:** Noted and approved the course structure, Syllabus

**ELECTRICAL AND ELECTRONICS ENGINEERING**  
**(V23 II<sup>nd</sup> Year COURSE STRUCTURE & SYLLABUS)**

**B.Tech. II Year-I Semester**

S.No	Category	Title	L	T	P	C
1	BS	Complex Variables & Numerical Methods	3	0	0	3
2	HSMC	Universal human values – understanding harmony and Ethical human conduct	2	1	0	3
3	Engineering Science	Electromagnetic Field Theory	3	0	0	3
4	Professional Core	Electrical Circuit Analysis-II	3	0	0	3
5	Professional Core	DC Machines & Transformers	3	0	0	3
6	Professional Core	Electrical Circuit Analysis-II And Simulation Lab	0	0	3	1.5
7	Professional Core	DC Machines & Transformers Lab	0	0	3	1.5
8	Skill Enhancement Course	Data Structures Lab	0	1	2	2
9	Audit Course	Environmental Science	2	0	0	-
<b>Total</b>			<b>15</b>	<b>2</b>	<b>10</b>	<b>20</b>

**Decision:** Noted and approved the course structure, Syllabus

**A. The following items were also discussed and approved.**

Course structure for II B.Tech –I Semester courses of V-23 regulations.  
Changes of Course Outcomes & Mapping with PO statement along with justification.  
Detailed syllabus of II B.Tech 1 semester along with outcomes of each course.

**B. The following are the courses proposed for II B.Tech I Semesters**

**II B.Tech:**

I Semester - Environmental Science

**Suggestions given by the experts during BOS-2024**

**Subject : Environmental Science**

Board of studies for the academic year 2024-25 was conducted on 19-08-2024. The meeting was chaired by HoD.BS&H. While all the members of faculty of Chemistry participated along with subject experts in professor cadre from reputed universities .

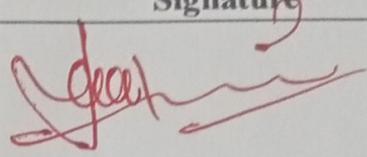
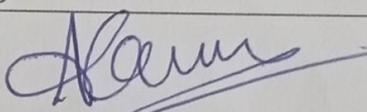
After clearly discussing each and every unit in each paper of Environmental Science (Theory) ,the board has finalized the syllabus for new regulation (V23) with few suggestions .The finalized papers are enclosed here with attested by the experts .

- ❖ A few changes ( additions and deletions ) are made with the suggestions of University nominees and Subject experts (V23 regulations ) :
- ❖ In Unit-IV, Hydrogen Fuel and its applications to environment-limitations topic is added.
- ❖ Time tables of concerned faculty and working hours of the syllabus must be attached.
- ❖ Local visit of Industrial or Agriculture fields and should file the problems regarding Environmental Issues.

# DEPARTMENT OF CHEMISTRY

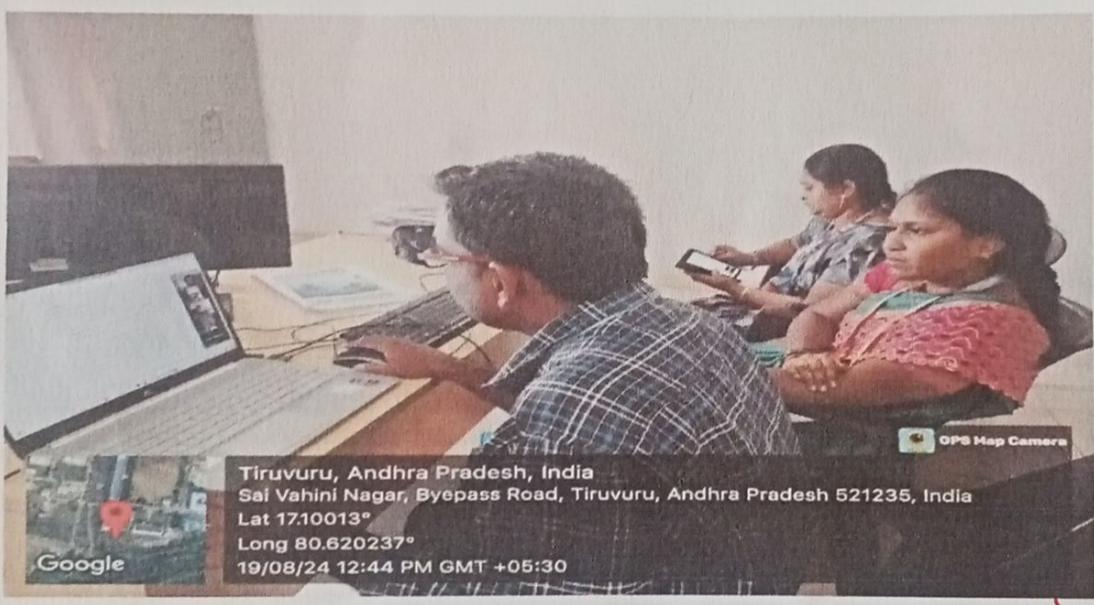
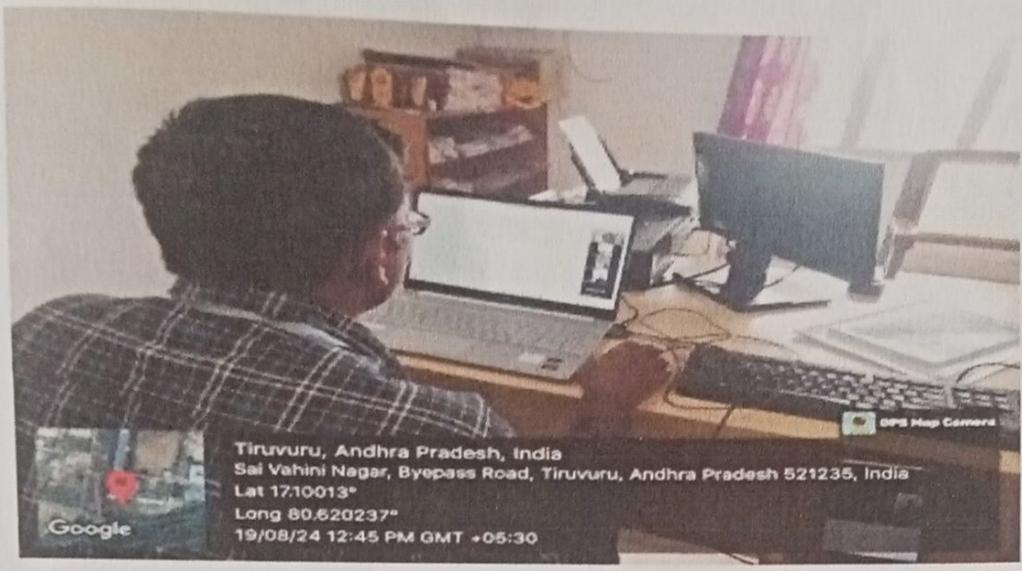
## Department Composition of Board of Studies:

The following members are drafted as internal members to Board of Studies for the Department of Chemistry

S.No	Name and Designation of Member	Signature
1	<b>Chairperson :</b> Mr. V J Moses , Assoc. Professor & HOD	
<b>UNIVERSITY NOMINEE</b>		
1	Dr.B.Hari Babu Professor Acharya Nagarjuna University .Gunturu. Mobile: 8500338866 EmailId :dr.b.haribabu @gmail.com	Present (Online)
<b>SUBJECT EXPERT</b>		
1	Dr. MV Basaveswararao Professor KrishnaUniversity .Machilipatnam . Andhra Pradesh Mobile No: 9346234562 Email.Id: <a href="mailto:professormandava@gmail.com">professormandava@gmail.com</a> .	Present (Online)
<b>FACULTY ( INTERNAL ) MEMBERS</b>		
4	Koteswara Rao Anam (Ph.D), Assistant Professor	
5	Smt. V.Tejaswi, Asst. Professor	v. tejaswi

**ENVIRONMENTAL SCIENCE  
 BOARD OF STUDIES –II MEET**

**Date: 19.08.2024**



Chairman  
 Board of Studies

Dean Academics  
**DEAN ACADEMICS**  
 SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY  
 TIRUVURU-521 235, KRISHNA, AP

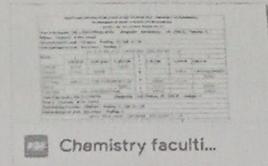
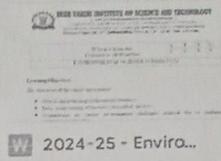
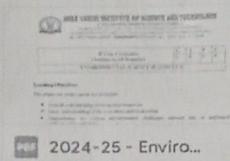
Principal  
**Principal**  
 Sree Vahini Institute of Science and Technology  
 Tiruvuru-521235

Compose



3 Attachments • Scanned by Gmail

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Chemistry faculti...

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H B Bollikolla

approved – Prof. B. Hari Babu, M.Sc., Ph.D., Department of Chemistry, Head, Department of Chemistry, Head, Department



Prof. Mandava Venkata Basaveswara Rao

Approved.



freshman hod <freshmanhod@sreevahini.edu.in>

to Mandava

Thank you sir



freshman hod <freshmanhod@sreevahini.edu.in>

to H

*Handwritten signature in red ink*

Sreevahini Institute of  
Science & Technology  
ru-521 235-Krishna

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