

**SREE VIDYANIKETHAN ENGINEERING COLLEGE
(Autonomous)**

Sree Sainath Nagar, A. Rangampet-517 102
Department of Basic Sciences and Humanities

**Minutes of the meeting of the 6th Board of studies in
Department of Basic Sciences and Humanities for 1st B. Tech.
held on 9th January, 2021 @ 11:45 AM Virtually**

Members Present in the individual boards:

S. No.	Name and Address of the member	Member Type
1.	Dr. Y. B. Kiran Assistant Professor (SL) & Chairman BoS Dept. of BSH. Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati.	Chairman
English		
2.	Prof. V. B. Chitra Assistant Professor (SL) & Professor of English Department of Humanities, JNTUA College of Engineering, Anantapuramu - 515002	External
3.	Prof. P. Hari Padma Rani Professor of English, Dept. of English Language and Literature, Sri Padmavati Mahila Visvavidyalayam, TIRUPATI – 517502	External
4.	Prof. R. L. N. RAJU Associate Professor of English Department of English VIT University, VELLORE – 632014 TAMILNADU	External
5.	Dr. M. Ravichand Professor of English, Dept.of BSH. Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
6.	Dr. S. Pushpalatha Associate Professor of English, Dept.of BSH. Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
7.	Dr. B. Anitha Assistant Professor (SL), Dept.of BSH. Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
8.	Dr. C. Raghavendra Reddy Assistant Professor (SL), Dept.of BSH. Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal

MATHEMATICS		
9.	Prof. Dr. G.S.S. Raju Professor of Mathematics, Department of Mathematics, JNTU College of Engineering, Pulivendula, YSR District , Andhra Pradesh – 516390	External
10.	Prof. G. Viswanadha Reddy Professor of Mathematics Department of Mathematics S.V.University, Tirupati	External
11.	Dr. M. Sudheer Babu Associate Professor of Mathematics, Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
12.	Dr. A.V.M. Prasad Professor & Head, Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
13.	Dr. B. Reddappa Assistant Professor (SL), Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
14.	Dr. K. Kumaraswamy Naidu Assistant Professor (SL), Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
15.	Dr. T. Chalapathi Assistant Professor (SL), Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
PHYSICS		
16.	Prof. R. Padma Suvarna Professor & Head Department of Physics JNTU A College of Engineering Anantapuramu – 515002	External
17.	Prof. S. Vijaya Bhaskar Rao Professor of physics Department of Physics Sri Venkateswara University Tirupati - 517 502	External
18.	Prof. K. Krishna Reddy Professor of Physics Yogi Vemana University, Kadapa & Registrar of Krishna University, Machilipatnam	External

19.	Dr. P. Vishnu Prasanth Associate Professor of Physics, Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
20.	Dr. V. Nirupama Assistant Professor (SL), Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
21.	Dr. Y. B. Kishore kumar Assistant Professor (SL), Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
22.	Dr. M. V. Sasi Kumar Assistant Professor (SL), Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
CHEMISTRY		
23.	Prof. G. V. Subba Reddy Professor of Chemistry, JNTUA College of Engineering, Pulivendula, YSR District , AP - 516390	External
24.	Dr. K. Vijaya Krishna Associate Professor of Chemistry, School of Basic Sciences, Indian Institute of Technology Bhubaneswar (IITBBS) Bhubaneswar, Odisha -752050	External
25.	Dr. P. Vasugovardhan Reddy Associate Professor of chemistry, Department of chemistry, Yogi Vemana University, YSR District -516216	External
26.	Dr. G. Ganesh Assistant Professor (SL), Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal
27.	Dr. G. Rambabu Associate Professor of Chemistry, Dept. of BSH, Sree Vidyanikethan Engineering College, Sree Sainath Nagar – 517102, Tirupati	Internal

6th Board of Studies Meeting of Basic Sciences and Humanities (BSH) for 1st B. Tech. was conducted **through online video conferencing** using ZOOM platform on 9th January, 2021 from 11.45 AM. The screenshots taken during the meeting are shown below:

English Board:

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Spoken English (AC) [Compatibility Mode] - Word

I B.Tech. - I/II Semester
(20BT1HSAC) SPOKEN ENGLISH
 (Common to All Branches of Engineering)
 (Audit Course)

Int. Marks	Ext. Marks	Total Marks	L	T	P	C
-	-	-	2	-	-	-

PRE-REQUISITES: -

COURSE OBJECTIVES:

- To impart the knowledge of day to day conversational expressions.
- To enhance contextual vocabulary and technical jargon for effective usage of language.
- To improve functional grammar for speaking and writing without errors.
- To acquaint with appropriate conversational and narrating techniques for effective communication.

COURSE OUTCOMES: After successful completion of the course, students will be able to:

CO1: Demonstrate knowledge of grammar and vocabulary for writing effective formal letters and e-mails.

CO2: Communicate effectively by applying appropriate writing techniques by examining and applying functional grammar.

Course Outcomes	Program Outcomes			
	PO1	PO2	PO3	PO10
CO1	3	1	1	1
CO2	2	3	1	2

Correlation Levels: 3 - High 2 - Medium 1 - Low

Screen 1 2 of 8

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1.Communicative English [Compatibility Mode] - Word

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Int. Marks	Ext. Marks	Total Marks	L	T	P	C
30	70	100	3	0	--	3

PRE-REQUISITES: -

COURSE OBJECTIVES:

- To acquaint with the nuances of effective communication correlating with academic content.
- To understand and interpret the importance of listening techniques for effective communication.
- To develop reading and writing techniques for effective technical communication.
- To make use of speaking techniques to communicate effectively in formal and informal situations.

COURSE OUTCOMES: After successful completion of this course, students will be able to:

CO1: Demonstrate knowledge of English language, examining and applying the aspects of Process of communication, Paralinguistic features, Skimming, Scanning, and Elements of style in writing.

CO2: Analyze the modes and techniques of listening, speaking, reading, writing and apply appropriately to communicate effectively with the engineering community and society.

CO3: Apply reading and writing techniques in preparing documents by examining SQ3R Technique, Writer's Block, and Précis Writing.

CO4: Communicate effectively applying appropriate speaking techniques by examining and applying the communication styles in Conferences, Symposia, Seminars and Persuasive Speaking in formal and real time situations.

PAGE 1 OF 2 554 WORDS ENGLISH (UNITED STATES)

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Mathematics Board

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PRE REQUISITE: -

COURSE DESCRIPTION: Ordinary Differential Equations; Partial Differential Equations; Multivariable Calculus (Differentiation); Multivariable Calculus (Integration); Multivariable Calculus (Vector Calculus).

COURSE OBJECTIVES:

- To familiarize students with analytical methods of solving differential equations.
- To enable the students to analyze and apply differentiation and integration for multivariable functions.
- To introduce the vector methods in evaluating multiple integrals in two and three dimensional spaces.

COURSE OUTCOMES: After successful completion of the course, students will be able to:

CO1. Formulate and solve differential equations by applying knowledge of calculus for engineering problems.

CO2. Demonstrate knowledge in multivariable calculus for evaluating multiple integrals through techniques of integration.

CO3. Identify scalar and vector valued functions and evaluate vector integrals through knowledge of vector integral theorems and techniques.

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Page 1 of 9 1793 words

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TEXT BOOKS:

- T. K. V. Iyengar, B. Krishna Gandhi, S. Ranganatham and M. V. S. S. N. Prasad, *Engineering Mathematics, vol-1*, S. Chand and Company, 13th edition, 2014.
- B. S. Grewal, *Higher Engineering Mathematics*, Khanna publishers, 44th edition, 2017.

REFERENCE BOOKS:

- Dennis G. Zill and Warren S. Wright, *Advanced Engineering Mathematics*, Jones and Bartlett, 6th edition, 2011.
- R. K. Jain and S. R. K. Iyengar, *Advanced Engineering Mathematics*, Alpha Science International Ltd., 6th edition, 2017.

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Physics Board

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fibers, v-number (quantitative), fabrication of optical fiber by double clad technique, applications of optical fibers, sensors (temperature, displacement, liquid level detector).

UNIT-II: ACOUSTICS AND ULTRASONICS (9 periods)

Acoustics - Introduction, classification of sound, sound intensity level (decibel), reverberation, reverberation time, Sabine's formula (qualitative), absorption coefficient and its determination, factors affecting acoustics and their remedies, basic requirements of an acoustically good hall.

Ultrasonics - Introduction to ultrasonic waves, production of ultrasonic waves by magnetostriction method, piezoelectric method, detection of ultrasonics (qualitative), industrial applications (ultrasonic welding, ultrasonic soldering and ultrasonic drilling).

UNIT-III: KINEMATICS AND KINETICS (10 periods)

Page: 1 of 11 Words: 2,273

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The screenshot displays a Zoom meeting grid with eight participants. The participants are arranged in three rows: the top row has three participants, the middle row has three, and the bottom row has two. Each participant's video feed shows them in their respective environments, some wearing headsets. The Zoom interface at the bottom includes a play/pause button, a progress bar, and system icons for microphone and camera. The Windows taskbar at the bottom of the screen shows various application icons and the system clock.

Chemistry Board

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Engineering Chemistry (SVEC-20) - Proposed - Ganesh (Protected View) - Microsoft Word (Product Activation Failed)

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Protected View This file originated from an Internet location and might be unsafe. Click for more details. Enable Editing

**1 B. Tech. - 1/II Semester
(20BT1BS02) ENGINEERING CHEMISTRY**
(Common to All Branches)

Int. Marks	Ext. Marks	Total Marks	L	T	P	C
30	70	100	3	-	-	1

PRE REQUISITE: -

COURSE OBJECTIVES:

- To provide basic knowledge in quantum-mechanical model of atom, bonding theories, water treatment, electrochemistry, corrosion, instrumental methods, fuels and lubricants.
- To develop skills in identification of molecular shapes, measurement of hardness of water, calculation of cell potential, calorific value of fuels.
- To impart basic knowledge pertains to various instrumental methods, their applications and characterization of molecular structures using instrumental methods.

COURSE OUTCOMES: After successful completion of the course, students will be able to:

CO1. Analyze and solve problems associated with hardness of water, boiler troubles and address the societal, health and safety issues related to quality of water.

CO2. Apply the basic knowledge of quantum mechanical approach to atomic structure and bonding theories to identify shapes of different molecules.

CO3. Apply the basic knowledge of corrosion phenomenon to identify solutions for control

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Engineering Chemistry (SVEC-20) - Proposed - Ganesh [Compatibility Mode] - Microsoft Word (Pr...

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COURSE OBJECTIVES:

- To provide basic knowledge in quantum-mechanical model of atom, bond theories, water treatment, electrochemistry, corrosion, instrumental methods, fu and lubricants.
- To develop skills in identification of molecular shapes, measurement of hardness water, calculation of cell potential, calorific value of fuels.
- To impart basic knowledge pertains to various instrumental methods, th applications and characterization of molecular structures using instrum methods.

COURSE OUTCOMES: After successful completion of the course, students will be able to:

CO1. Analyze and solve problems associated with hardness of water, boiler troubles and address the societal, health and safety issues related to quality of water.

CO2. Apply the basic knowledge of quantum mechanical approach to atomic structure and bonding theories to identify shapes of different molecules.

CO3. Apply the basic knowledge of corrosion phenomenon to identify solutions for control of corrosion and demonstrate competency in the basic concepts of electrochemical cells.

CO4. Demonstrate the basic knowledge of instrumental methods and their applications in the structural analysis of materials.

Page: 1 of 12 Words: 1,2,411 English (India)

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Minutes:**I. Action Taken Report on Minutes of 4th Meeting held on 10th June, 2019.**

The members were apprised of the action taken on the minutes of the 4th Board of Studies meeting held on 10th June, 2019.

The members noted and approved the same

II. Course Objectives, Course Outcomes and Syllabi handled by the Department:

Members of the B.O.S were apprised of the Course Objectives and Course Outcomes, Syllabi of the following courses handled by the department

Programme	Semester	Subject	Member(s) who	
			presented	Approved
ENGLISH				
I – B. Tech	First semester	Communicative English,	Dr. M. Ravichand	Board of Studies in B S & H (ENGLISH)
	Second semester			
	First semester	Communicative English laboratory		
	Second semester			
	First semester	Spoken English (AC)		
	Second semester			
MATHEMATICS				
I – B. Tech.	First semester	Differential Equations and Multivariable calculus	Dr. M. Sudheer Babu	Board of Studies in B S & H (MATHEMATICS)
	Second semester	Transformation Techniques and Linear Algebra		
PHYSICS				
I – B. Tech.	First semester	Engineering Physics	Dr. P. Vishnu Prasanth	Board of Studies in B S & H (PHYSICS)
	Second semester			
	First semester	Applied Physics		
	Second semester			
	First semester	Engineering Physics Laboratory		
	Second semester			
	First semester	Applied Physics Laboratory		
	Second semester			
CHEMISTRY				
I – B. Tech.	First semester	Engineering Chemistry	Dr. G. Ganesh	Board of Studies in B S & H (CHEMISTRY)
	Second semester			
	First semester	Engineering Chemistry Laboratory		
	Second semester			

Members of respective disciplines unanimously approved course objectives, course outcomes and syllabi of the above courses.

III. Panel of Question paper setters, Model question papers and Lesson plan for the courses handled by the department.

The Lesson Plans for the courses, Panel of Examiners and Model question papers for semester – end examinations for the above courses handled by the department under SVCE-20 were presented to the members.

Members perused, discussed and approved the above



(Y. B. Kiran)
Chairman BOS for BS&H