



# SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC – Autonomous Institution)

(Approved by AICTE, Permanently affiliated to JNTUK, Kakinada, ISO 9001: 2015 certified Institution)

(Accredited by NAAC with 'A' Grade; Recognised by UGC under sections 2(f) & 12(B))

NH-216, Amalapuram-Kakinada Highway, Cheyzeru (V), AMALAPURAM -533216.

## DEPARTMENT OF CIVIL ENGINEERING

Ref No: SRIN/CIVIL/BOS4/MOM/01

Date: 20-07-2024

### Minutes of Board of Studies Meeting

Minutes of 4th Meeting of Board of Studies (BOS) of Department of Civil Engineering, Srinivasa Institute of Engineering and Technology (Autonomous), NH-216, Cheyzeru(V), Amalapuram, held on 20.07.2024 (Saturday), at 11:00 AM in its Board Room through Online and offline mode.

#### Agenda

1. To discuss about the curriculum and syllabus of IInd year Civil Engineering. Students admitted during academic year 2023.
2. To discuss about the curriculum and syllabus offered by Civil Engineering to other departments.
3. Training/skill development programs proposed for department of civil engineering.
4. Department Advisory Committee (DAC) and Program Assessment Committee (PAC).
5. Result analysis
6. Any other points with the permission of Chairperson.

#### Members of the Board of Studies

SL. NO	NAME OF THE MEMBER	AFFILIATION OF THE MEMBER	CONTACT DETAILS	STATUS
1	Dr. V S J Yeswanth Paluri	Associate Professor and HoD – Civil Engg. Dept. Srinivasa Inst. of Engg. And Tech.	<a href="mailto:vsjyeswanth@sriniet.edu.in">vsjyeswanth@sriniet.edu.in</a> 9553314600	Chairman, BoS-Civil Engg.
2	Dr. B. Krishna Rao	Professor & Director, BICS, JNTUK, Kakinada-533003	<a href="mailto:krishnaraob102@gmail.com">krishnaraob102@gmail.com</a> 9440147830	University Nominee (Nominated by Honorable Vice-Chancellor, JNTUK, Kakinada)
3	Dr. N. Victor Babu	Professor (A) -CE Andhra University Visakapatnam-530003	<a href="mailto:neelavictorbabu@gmail.com">neelavictorbabu@gmail.com</a> 9440586648	External Subject Expert (Nominated by Academic Council)
4	Dr. A. C. S. V. Prasad	Professor & HoD-CE SRKRCE, Bhimavaram-534204	<a href="mailto:acsyprasad@srkrec.ac.in">acsyprasad@srkrec.ac.in</a> 9440984918	External Subject Expert (Nominated by Academic Council)
5	Mr. K. Bala Krishna Murthy	Executive Engineer, PIPHW Division No.2, Polavaram, West Godavari district, Andhra Pradesh. 534315	<a href="mailto:bkmurthy69@gmail.com">bkmurthy69@gmail.com</a> 7013526558	Industry Expert
6	Mr. D. Nagendra Varma	Project Manager, NCC Pvt. Ltd, Hyderabad -500081 Telangana	<a href="mailto:dantulurivarma124@gmail.com">dantulurivarma124@gmail.com</a> 8374308125	Alumni Representative (Nominated by the Principal)
7	Mr. K. Srinivasa Sudheer	Asst. Prof., Dept. of Civil Engg, Srinivasa Inst. of Engg. And Tech.	<a href="mailto:kssudheer@sriniet.edu.in">kssudheer@sriniet.edu.in</a> 8500479905	Internal Subject Expert
8	Ms. P. Lavanya Devi	Asst. Prof., Dept. of Civil Engg, Srinivasa Inst. of Engg. And Tech.	<a href="mailto:lavyadevi0710@gmail.com">lavyadevi0710@gmail.com</a> 7207441390	Internal Subject Expert
9	Mr. P. D. N. Ganesh	Asst. Prof., Dept. of Civil Engg, Srinivasa Inst. of Engg. And Tech.	<a href="mailto:ganesh.pitchika@gmail.com">ganesh.pitchika@gmail.com</a> 9666434003	Internal Subject Expert



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The Chairman of the first Board of Studies (BoS) extended a warm welcome to the members present and started the presentation by briefing about the institution and the given agenda was discussed with the members.

Agenda Point	Item	Discussion
<b>Agenda Item-I</b>	To discuss about the curriculum and syllabus of IInd year Civil Engineering. Students admitted during academic year 2023.	Mr. K. Bala Krishna Murthy suggested to remove Theodolite surveying from the syllabus of survey theory and lab as these days theodolite is not being used. Dr. A. C. S. V. Prasad asked to re-organize the II year II semester laboratories and subjects
<b>Agenda Item-II</b>	To discuss about the curriculum and syllabus offered by Civil Engineering to other departments.	Mr. K. Bala Krishna Murthy suggested to include River conservation act in the mandatory in Environmental Science.
<b>Agenda Item-III</b>	Training/skill development programs proposed for department of civil engineering.	No suggestions were mentioned by the BOS members regarding Training/skill development programs.
<b>Agenda Item-IV</b>	Department Advisory Committee (DAC) and Program Assessment Committee (PAC).	No suggestions were mentioned by the BOS members regarding DAC and PAC.
<b>Agenda Item-V</b>	Result analysis	No suggestions were mentioned by the BOS members regarding result analysis.
<b>Agenda Item-VI</b>	Any other points with the permission of Chairperson	All the members accepted to distribute the contents of the courses uniformly in all the units without deleting any recommended content. It is unanimously resolved to follow the internal and external examination evaluation procedures recommended by JNTUK, Kakinada.



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SL. NO	NAME OF THE MEMBER	AFFILIATION OF THE MEMBER	STATUS	SIGNATURE
1	Dr. V S J YeswanthPaluri	Associate Professor andHoD – Civil Engg. Dept. Srinivasa Inst. of Engg. And Tech.	Chairman, BoS-Civil Engg.	<i>P.V.S.J. Yeswanth</i>
2	Dr. B. Krishna Rao	Professor & Director, BICS, JNTUK, Kakinada-533003	University Nominee (Nominated by Honorable Vice- Chancellor, JNTUK, Kakinada)	
3	Dr. N. Victor Babu	Professor (A) -CE Andhra University Visakapatnam-530003	External Subject Expert (Nominated by Academic Council)	
4	Dr. A. C. S. V. Prasad	Professor &HoD-CE SRKRCE, Bhimavaram-534204	External Subject Expert (Nominated by Academic Council)	
5	Mr. K. Bala Krishna Murthy	Executive Engineer, PIPHW Division No.2, Polavaram, West Godavari district, Andhra Pradesh. 534315	Industry Expert	
6	Mr. D. NagendraVarma	Project Manager, NCC Pvt. Ltd, Hyderabad -500081 Telangana	Alumni Representative (Nominated by the Principal)	
7	Mr. K. SrinivasaSudheer	Asst. Prof., Dept. of Civil Engg, Srinivasa Inst. of Engg. And Tech.	Internal Subject Expert	<i>Sudheer</i>
8	Ms. P. Lavanya Devi	Asst. Prof., Dept. of Civil Engg, Srinivasa Inst. of Engg. And Tech.	Internal Subject Expert	<i>Lavanya</i>
9	Mr. P. D. N. Ganesh	Asst. Prof., Dept. of Civil Engg, Srinivasa Inst. of Engg. And Tech.	Internal Subject Expert	<i>Ganesh</i>





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II Year – I Semester	<b>UNIVERSAL HUMAN VALUES – UNDERSTANDING HARMONY AND ETHICAL HUMAN CONDUCT (Common to All branches of Engineering)</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>

## Course Objectives:

- To help the students appreciate the essential complementary between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such holistic perspective forms the basis of Universal Human Values and movement towards
- To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behaviour and mutually enriching interaction with Nature.

## Course Outcomes:

At the end of the course students will be able to

**CO1:** Define the terms like Natural Acceptance, Happiness and Prosperity (L1, L2)

**CO2:** Identify one's self, and one's surroundings (family, society nature) (L1, L2).

**CO3:** Apply what they have learnt to their own self in different day-to-day settings in real life (L3).

**CO4:** Relate human values with human relationship and human society. (L4).

**CO5:** Justify the need for universal human values and harmonious existence (L5).

**CO6:** Develop as socially and ecologically responsible engineers (L3, L6).

## UNIT I Introduction to Value Education (6 lectures and 3 tutorials for practice session)

Lecture 1: Right Understanding, Relationship and Physical Facility (Holistic Development and the Role of Education)

Lecture 2: Understanding Value Education

Tutorial 1: Practice Session PS1 Sharing about Oneself

Lecture 3: self-exploration as the Process for Value Education

Lecture 4: Continuous Happiness and Prosperity – the Basic Human Aspirations

Tutorial 2: Practice Session PS2 Exploring Human Consciousness

Lecture 5: Happiness and Prosperity – Current Scenario  
Lecture 6: Method to Fulfill the Basic Human Aspirations  
Tutorial 3: Practice Session PS3 Exploring Natural Acceptance

**UNIT II      Harmony in the Human Being (6 lectures and 3 tutorials for practice session)**

Lecture 7: Understanding Human being as the Co-existence of the self and the body.  
Lecture 8: Distinguishing between the Needs of the self and the body

Tutorial 4: Practice Session PS4 Exploring the difference of Needs of self and body.  
Lecture 9: The body as an Instrument of the self  
Lecture 10: Understanding Harmony in the self  
Tutorial 5: Practice Session PS5 Exploring Sources of Imagination in the self  
Lecture 11: Harmony of the self with the body  
Lecture 12: Programme to ensure self-regulation and Health  
Tutorial 6: Practice Session PS6 Exploring Harmony of self with the

**UNIT III      Harmony in the Family and Society (6 lectures and 3 tutorials for practice session)**

Lecture 13: Harmony in the Family – the Basic Unit of Human Interaction  
Lecture 14: 'Trust' – the Foundational Value in Relationship  
Tutorial 7: Practice Session PS7 Exploring the Feeling of Trust  
Lecture 15: 'Respect' – as the Right Evaluation  
Tutorial 8: Practice Session PS8 Exploring the Feeling of Respect  
Lecture 16: Other Feelings, Justice in Human-to-Human Relationship  
Lecture 17: Understanding Harmony in the Society  
Lecture 18: Vision for the Universal Human Order  
Tutorial 9: Practice Session PS9 Exploring Systems to fulfil Human Goal

**UNIT IV      Harmony in the Nature/Existence (4 lectures and 2 tutorials for practice session)**

Lecture 19: Understanding Harmony in the Nature  
Lecture 20: Interconnectedness, self-regulation and Mutual Fulfilment among the Four Orders of Nature  
Tutorial 10: Practice Session PS10 Exploring the Four Orders of Nature  
Lecture 21: Realizing Existence as Co-existence at All Levels  
Lecture 22: The Holistic Perception of Harmony in Existence  
Tutorial 11: Practice Session PS11 Exploring Co-existence in Existence

**UNIT V      Implications of the Holistic Understanding – a Look at Professional Ethics  
(6 lectures and 3 tutorials for practice session)**

Lecture 23: Natural Acceptance of Human Values

Lecture 24: Definitiveness of (Ethical) Human Conduct

Tutorial 12: Practice Session PS12 Exploring Ethical Human Conduct

Lecture 25: A Basis for Humanistic Education, Humanistic Constitution and Universal Human Order

Lecture 26: Competence in Professional Ethics

Tutorial 13: Practice Session PS13 Exploring Humanistic Models in Education

Lecture 27: Holistic Technologies, Production Systems and Management Models-Typical Case Studies

Lecture 28: Strategies for Transition towards Value-based Life and Profession

Tutorial 14: Practice Session PS14 Exploring Steps of Transition towards Universal Human Order

**Practice Sessions for UNIT I – Introduction to Value Education**

PS1 Sharing about Oneself

PS2 Exploring Human Consciousness

PS3 Exploring Natural Acceptance

**Practice Sessions for UNIT II – Harmony in the Human Being**

PS4 Exploring the difference of Needs of self and body

PS5 Exploring Sources of Imagination in the self

PS6 Exploring Harmony of self with the body

**Practice Sessions for UNIT III – Harmony in the Family and Society**

PS7 Exploring the Feeling of Trust

PS8 Exploring the Feeling of Respect

PS9 Exploring Systems to fulfil Human Goal

**Practice Sessions for UNIT IV – Harmony in the Nature (Existence)**

PS10 Exploring the Four Orders of Nature

PS11 Exploring Co-existence in Existence

**Practice Sessions for UNIT V – Implications of the Holistic Understanding – a Look at Professional Ethics**

PS12 Exploring Ethical Human Conduct

PS13 Exploring Humanistic Models in Education

PS14 Exploring Steps of Transition towards Universal Human Order

**Textbooks:**

1. R R Gaur, R Asthana, G P Bagaria, A Foundation Course in Human Values and Professional Ethics, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1
2. R R Gaur, R Asthana, G P Bagaria, Teachers' Manual for A Foundation Course in Human Values and Professional Ethics, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-53-2

**Reference Books:**

1. Jeevan Vidya: Ek Parichaya, A Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999
2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004
3. The Story of My Experiments with Truth - by Mohandas Karamchand Gandhi
4. Small is Beautiful - E. F Schumacher.
5. Slow is Beautiful - Cecile Andrews
6. Economy of Permanence - J C Kumarappa
7. Bharat Mein Angreji Raj – Pandit Sunderlal
8. Rediscovering India - by Dharampal
9. The Story of Stuff (Book).
10. Hind Swaraj or Indian Home Rule - by Mohandas K. Gandhi
11. India Wins Freedom - Maulana Abdul Kalam Azad
12. Vivekananda - Romain Rolland (English)
13. Gandhi - Romain Rolland (English)



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<b>II Year – II Semester</b>	<b>MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS</b> (Common to CE, EEE, ECE, and CSE)	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		2	0	0	2

### Course Objectives:

- To inculcate the basic knowledge of microeconomics and financial accounting
- To make the students learn how demand is estimated for different products, input-output relationship for optimizing production and cost
- To Know the Various types of market structure and pricing methods and strategy
- To give an overview on investment appraisal methods to promote the students to learn how to plan long-term investment decisions.
- To provide fundamental skills on accounting and to explain the process of preparing financial statements.

### Course Outcomes:

- Define the concepts related to Managerial Economics, financial accounting and management (L2)
- Understand the fundamentals of Economics viz., Demand, Production, cost, revenue and markets (L2)
- Apply the Concept of Production cost and revenues for effective Business decision (L3)
- Analyze how to invest their capital and maximize returns (L4)
- Evaluate the capital budgeting techniques. (L5)
- Develop the accounting statements and evaluate the financial performance of business entity (L5)

### UNIT - I Managerial Economics

Introduction – Nature, meaning, significance, functions, and advantages. Demand-Concept, Function, Law of Demand - Demand Elasticity- Types – Measurement. Demand Forecasting- Factors governing Forecasting, Methods. Managerial Economics and Financial Accounting and Management.

### UNIT - II Production and Cost Analysis

Introduction – Nature, meaning, significance, functions and advantages. Production Function– Least- cost combination– Short run and long run Production Function- Isoquants and Is costs, Cost & Break-Even Analysis - Cost concepts and Cost behaviour- Break-Even Analysis (BEA) - Determination of Break-Even Point (Simple Problems).

### UNIT - III Business Organizations and Markets

Introduction – Forms of Business Organizations- Sole Proprietary - Partnership - Joint Stock Companies - Public Sector Enterprises. Types of Markets - Perfect and Imperfect



Competition - Features of Perfect Competition Monopoly- Monopolistic Competition- Oligopoly-Price-Output Determination - Pricing Methods and Strategies

#### **UNIT - IV Capital Budgeting**

Introduction – Nature, meaning, significance. Types of Working Capital, Components, Sources of Short-term and Long-term Capital, Estimating Working capital requirements. Capital Budgeting– Features, Proposals, Methods and Evaluation. Projects – Pay Back Method, Accounting Rate of Return (ARR) Net Present Value (NPV) Internal Rate Return (IRR) Method (sample problems)

#### **UNIT - V Financial Accounting and Analysis**

Introduction – Concepts and Conventions- Double-Entry Bookkeeping, Journal, Ledger, Trial Balance- Final Accounts (Trading Account, Profit and Loss Account and Balance Sheet with simple adjustments). Introduction to Financial Analysis - Analysis and Interpretation of Liquidity Ratios, Activity Ratios, and Capital structure Ratios and Profitability.

#### **Textbooks:**

1. Varshney & Maheswari: Managerial Economics, Sultan Chand.
2. Aryasri: Business Economics and Financial Analysis, 4/e, MGH.

#### **Reference Books:**

1. Ahuja HI Managerial economics Schand.
2. S.A. Siddiqui and A.S. Siddiqui: Managerial Economics and Financial Analysis, New Age International.
3. Joseph G. Nellis and David Parker: Principles of Business Economics, Pearson, 2/e, New Delhi.
4. Domnick Salvatore: Managerial Economics in a Global Economy, Cengage.

#### **Online Learning Resources:**

<https://www.slideshare.net/123ps/managerial-economics-ppt>  
<https://www.slideshare.net/rossanz/production-and-cost-45827016>  
<https://www.slideshare.net/darkyla/business-organizations-19917607>  
<https://www.slideshare.net/balarajbl/market-and-classification-of-market>  
<https://www.slideshare.net/ruchi101/capital-budgeting-ppt-59565396>  
<https://www.slideshare.net/ashu1983/financial-accounting>



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<b>II Year – II Semester</b>	<b>SOFTSKILLS</b> (Common to ECE & ME)	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>0</b>	<b>1</b>	<b>2</b>	<b>2</b>

### Course Objectives:

- To prepare to face global competition for employment and excellence in profession.
- To help the students understand and build interpersonal and interpersonal skills that will enable them to lead meaningful professional life

### UNIT–1: INTRODUCTION

Introduction- Emergence of life skills, Definition & Meaning, Importance& need, reasons for skill gap, Analysis--Soft Skills vs Hard skills, Linkage between industry and soft skills,Challenges,PersonalityDevelopments.SoftSkills,SoftSkillsvsEnglish-ImprovingTechniques.

### UNIT–II: Intra-Personal:

Definition-Meaning – Importance-SWOT analysis, Johari windows - Goal Setting- quotient skills - Emotional Intelligence- Attitudinal skills - Right thinking- Problem Solving-Time management, stress management.

### UNIT–III: Inter-Personal:

Definition–Meaning–Importance-Communicationsskills-TeamWork,managerial skills -Negotiation skills-Leadership skills, corporate etiquettes.

### UNIT–IV: Verbal Skills:

DefinitionandMeaning-Listeningskills,need-types,advantages,Importance-ImprovingTipsforListening,Speaking,need-types,advantages,Importance-ImprovingTips,Reading- Writing Skills, Report, Resume, statement of purpose, need- types, advantages ,Importance-Improving Tips.

## UNIT–V:Non-Verbal Skills& Interview skills

DefinitionandMeaning–Importance-FacialExpressions-EyeContact–Proxemics-Haptics - Posture, cross cultural body language, body language in interview room, appearance and dress code –Kinetics-Para Language -tone, pitch, pause, neutralization of accent ,use of appropriate language, Interview skills, interview methods and questions.

### Text Books:

- 1) Sherfield, M.Robertatal,CornerstoneDevelopingSoftSkills,4/e,PearsonPublication,NewDelhi,2014.
- 2) Alka Wadkar, Life SkillsforSuccess,1/e,SagePublicationsIndiaPrivateLimited,2016.

### Reference Books:

1. Sambaiah.M.TechnicalEnglish, WileypublishersIndia.NewDelhi.2014.
2. Gangadhar Joshi, From Campus to Corporate ,SAGE TEXT.
3. Alex.K, SoftSkills,3rded.S.ChandPublication,NewDelhi,2014.
4. Meenakshi Raman and Sangita Sharma,Technical Communication: Principle and Practice, Oxford University Press,2009.
5. ShaliniVarma,BodyLanguageforYourSuccessMantra,4/e,S.ChandPublication,NewDelhi,2014.
6. StephenCovey,SevenHabitsofHighlyEffectivePeople,JMDBook,2013.

### Online Learning Resources:

- [https://onlinecourses.nptel.ac.in/noc20\\_hs60/preview](https://onlinecourses.nptel.ac.in/noc20_hs60/preview)
- <http://www.youtube.com/@softskillsdevelopment6210>
- [https://youtube.com/playlist?list=PLLy\\_2iUCG87CQhELCYtvXh0E\\_y-bOO1\\_q&si=Fs05Xh8ZrOPsR8F4](https://youtube.com/playlist?list=PLLy_2iUCG87CQhELCYtvXh0E_y-bOO1_q&si=Fs05Xh8ZrOPsR8F4)
- <https://www.coursera.org/learn/people-soft-skills-assessment?language=English>  
<https://www.edx.org/learn/soft-skills>

### Course Outcomes:

COs	Statements	Blooms Level
CO1	Assimilate and understood the meaning and importance of soft skills and Learn how to develop them.	L1
CO2	Understand the significance of soft skills in the working environment for Professional excellence.	L2
CO3	Prepare to under go the placement process with confidence and clarity.	L3
CO4	Ready to face any situation in life and equip themselves to handle them effectively.	L6
CO5	Understand and learn the importance of etiquette in both professional And personal life	L2