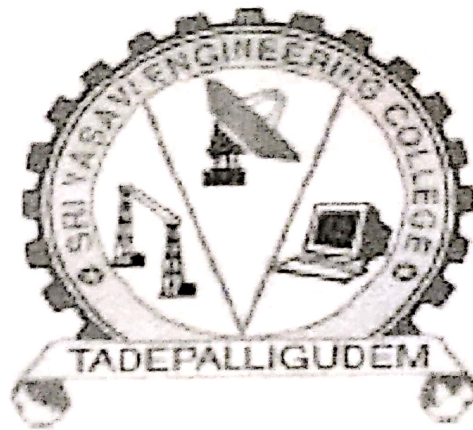


Sri Vasavi Engineering College

(Autonomous)



Handbook

Bridge Course for Lateral Entry Students

A.Y. 2022-23

Department of Electrical and Electronics Engineering
(NBA Accredited)

Index

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Institute Vision & Mission

Vision

To be a premier technological institute striving for excellence with global perspective and commitment to the nation.

Mission

- ♦ *To produce Engineering graduates of professional quality and global perspective through learner-centric education.*
- ♦ *To establish linkages with government, industry and Research laboratories to promote R&D activities and to disseminate innovations.*
- ♦ *To create an eco-system in the institute that leads to holistic development and ability for life-long learning.*

Department Vision & Mission

Vision

To evolve as a centre of excellence in Electrical and Electronics Engineering that produces graduates of high quality with ethical values.

Mission

- *To impart technical knowledge through learner-centric education supplemented with practical exposure.*
- *To provide opportunities that promote personality development through co-curricular and extra-curricular activities.*
- *To inculcate human values & team spirit that enables the Electrical and Electronics Engineers to face the future challenges.*

Programme Educational Objectives (PEOs)

PEO1: *Be the practicing engineers in chosen technical fields such as designing, manufacturing and testing of various electrical systems.*

PEO2: *Fulfil the needs of society by solving technical problems in an ethical, responsible and an optimal way.*

PEO3: *Demonstrate professionalism through life-long learning.*

Programme Specific Outcomes (PSOs)

- *To contribute for the development of green energy technologies to meet future energy demands.*
- *To identify, formulate, design, investigate and operate various electrical systems.*

Programme Outcomes (POs)

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and concepts of electrical engineering to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and electrical.

PO3: Design/development of solutions: Design solutions for complex Electrical Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern Electrical Engineering and IT tools including prediction and modelling to complex electrical engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the electrical engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex Electrical Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the Electrical Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Schedule of Bridge Course for Lateral Entry Students

A.Y. 2022-23

Date/Time	1 09:30 AM - 10:30 AM	2 10:30 AM - 11:20 AM	3 11:20 AM - 12:10 PM	4 12:10 PM - 1:00 PM	1:00 PM 2:00 PM	5 2:00 PM - 4:30 PM
22-09-2022 THU	English Communication Skills		Electrical Circuit Analysis	Mathematics	LUNCH	Programming in 'C' for problem solving
23-09-2022 FRI	English Communication Skills		Electrical Circuit Analysis	Mathematics		Programming in 'C' for problem solving
24-09-2022 SAT	Electrical Circuit Analysis	Mathematics	English Communication Skills			Programming in 'C' for problem solving
26-09-2022 MON	Electrical Circuit Analysis	Mathematics	English Communication Skills			Programming in 'C' for problem solving
27-09-2022 TUE	Mathematics	Electrical Circuit Analysis	English Communication Skills			Programming in 'C' for problem solving
28-09-2022 WED	Mathematics	Electrical Circuit Analysis	English Communication Skills			Programming in 'C' for problem solving
29-09-2022 THU	English Communication Skills		Mathematics	Electrical Circuit Analysis		Programming in 'C' for problem solving
30-09-2022 FRI	Electrical Circuit Analysis	Mathematics	English Communication Skills			Programming in 'C' for problem solving
01-10-2022 SAT	Electrical Circuit Analysis	Mathematics	English Communication Skills			Programming in 'C' for problem solving

S. No	Name of the Course	Name of the Faculty	Venue
1	English Communication Skills	Mr. G. Srinivasa Rao	English Lab Diploma Block
2	Mathematics	Mrs. B. Adilakshmi	BS&H - 302
3	Electrical Circuit Analysis	Mr. N. Sankar	BS&H - 104
4	Programming in 'C' for problem solving	Mr. R.L. Phani Kumar / Mr. Ch. Hemanand	James Gosling Lab - CSE Block

LESSON PLAN

Academic Year : 2022-23

Programme: B.Tech EEE Lateral Entry

Name of the Course : English Communication Skills

Course Outcomes (Along with Knowledge Level):

CO -1: Collect suitable expressions and vocabulary to participate in JAM. (K1)

CO -2: Identify and produce vowel and consonant sounds. Use pauses and recognize prominent syllables to know word accent (K2)

CO-3: Choose suitable expressions to seek/refuse permissions, make suggestions- agree and disagree with)

CO-4: Debate rationally and cogently while putting forth the ideas. (K4)

CO-5: Examine and interpret the given picture. (K3)

S. No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours required	Pedagogy	Teaching Aids
1	CO1	<u>Unit-I</u> JAM Session Collect suitable expressions to participate in JAM	K1	2	Brainstorming and discussion	White board, Public Address System and Computer terminals with headphones and LCD Projector
2	CO2	Identify and listen to consonant sounds. Listen to consonant sounds, practice and record.	K2	1	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
3	CO2	Identify vowels-monophthongs, diphthongs. Listen to consonant sounds, practice and record.	K2	1	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
4	CO2	Practice writing transcription	K3	2	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector

5	CO3	Choose suitable e expressions to seek permission, grant/refuse permission Listen to tracks and practice exercises at systems and in manual.	K3	3	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
6	CO3	Find apt expressions to make suggestions, agree/disagree with a suggestion, express opinions. Listen to tracks and practice exercises at systems and in manual.	K3	3	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
7	CO4	Illustrate ideas and interpret topics to argue in debates effectively.	K4	2	Brainstorming, showing videos, oral practice and analysis	White board, Public Address System and Computer terminals with headphones and LCD Projector
8	CO5	Interpret the given picture and give caption and explain	K3	2	Brainstorming, showing videos, oral practice and analysis	Public Address System & LCD Projector
7	CO3	Develop ideas and topics to exhibit articulator skills and participate in group discussions.	K3	3	Brainstorming, showing videos, oral practice and analysis	White board, Public Address System and Computer terminals with headphones and LCD Projector

BRIDGE COURSE SYLLABUS FOR EEE

CO1: System of linear equations:

1 hour

Rank – Echelon form-Solution of linear system of equations – Scientific calculator Usage.

CO2: Differential equations of first order, first degree & second and higher order:3 hours
Linear – Exact – Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$

Applications of Ordinary Differential Equations:

Newton's Law of cooling – Law of natural growth and decay

CO3: Probability:

2 hours

Random experiment – sample space – simple event, definitions and problems – Addition theorem- conditional probability – Baye's Theorem

CO4: Multiple integrals & vector differentiation:

2 hours

Define Improper integrals – double and triple integrals- vector differential operator- divergence - curl

CO5: Fourier series for the periodic signals:

1 hour

Definitions – even and odd functions – Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.

Text Books:

1. B.S.Grewal, Higher Engineering Mathematics, 43rd Edition, Khanna Publishers.
2. N.P.Bali, Engineering Mathematics, Lakshmi Publications.
3. B. V. Raman, Tata Mc Graw Hill, A text Book of Engineering Mathematics.

Reference Books:

1. Erwin Kreyszig, Wiley India Pvt. Ltd, Advanced Engineering Mathematics.
2. Churchill, Complex Variables and applications.

***** NOTE: ALL THE STUDENTS MUST CARRY SCIENTIFIC CALCULATOR FROM DAY-1*****

LESSON PLAN

Academic Year : 2022-23
Name of the Course : Bridge Course for Lateral Entry Students
Programme : B. Tech
Semester : III
Branch : EEE

Course Outcomes (Along with Knowledge Level):

S.N O	CO No.	Course Outcome	BTL
1	C01	Apply matrix technique to solve linear system of equations	K3
2	C02	Solve ODE of first order, first degree and second and higher order and Applications	K3
3	C03	Outline about probability	K1
4	C04	Find double and triple integrals and divergence, curl of a vector	K3
5	C05	Find the Fourier series for the periodic signals	K3

Lecture Plan:

S. No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours	Pedagogy	Teaching Aids
		CO1: System of linear equations	K3	1		
1	CO1	Define matrix, types of matrices, Elementary row and column operations, Explain Echelon form, System of equations and consistency	K3	1	Lecture Method	Black Board
		CO2: Differential equations of first order, first degree and second and higher order	K3	3		
2	CO2	Definition of differential equation, order, degree, solve the linear ODE, Explain exact differential equations	K2	1	Lecture Method	Black Board
3	CO2	Linear non homogeneous differential equations of higher order with constant	K3	1	Lecture Method	Black Board

		coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$				
4	CO2	Newton's Law of cooling – Law of natural growth and decay	K3	1	Lecture Method	Black Board
		CO3: Probability	K1	2		
5	CO3	Random experiment – sample space – simple event, definitions and problems- Addition theorem	K1	1	Lecture Method	Black Board
6	CO3	conditional probability – Baye's Theorem	K1	1	Lecture Method	Black Board
		CO4: Multiple integrals & vector differentiation	K3	2		
7	CO4	Define Improper integrals and find double and triple integrals	K3	1	Lecture Method	Black Board
8	CO4	Find divergence, curl of a vector	K3	1	Lecture Method	Black Board
		CO5: Fourier series for the periodic signals	K3	1		
9	CO5	Definitions – even, odd and periodic functions – Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.	K3	1	Lecture Method	Black Board

LESSON PLAN FOR BRIDGE COURSE

Academic Year: 2022-23

Programme: B.Tech EEE, Lateral Entry

Semester: III

Name of the Course: **Electrical Circuit Analysis**

COURSE OUTCOMES:

Course Outcomes (Along with Knowledge Level):

After Completion of the course Students will be able to:

CO Number	Course Outcome	Knowledge Level
CO1	Understand how to apply KCL & KVL for DC circuits with Dependent sources	K2
CO2	Understand how to apply KVL when the circuit has current source	K2
CO3	Understand how to apply KCL when the circuit has voltage source	K2
CO4	Understand advantages of poly phase over single phase, Different types of connections in 3 phase system	K2
CO5	Understand the relation between Line voltages and phase voltages & Line currents and phase currents.	K2

Text Books:

1. M. E. Van Valkenburg, "Network Analysis", Prentice Hall, 2006.
2. D. Roy Choudhury, "Networks and Systems", New Age International Publications, 1998.
3. W. H. Hayt and J. E. Kemmerly, "Engineering Circuit Analysis", McGraw Hill Education, 2013.
4. Network analysis by Sudhakar shyammohan S Palli

Reference Books:

1. C. K. Alexander and M. N. O. Sadiku, "Electric Circuits", McGraw Hill Education, 2004.
2. K. V. V. Murthy and M. S. Kamath, "Basic Circuit Analysis", Jaico Publishers, 1999.
3. Chakrabarthy (2005), Circuit Theory, 4th Edition, Dhanpat Rai & Sons Publications,.

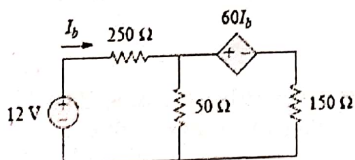
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO1	Describing KCL and KVL with dependent sources	K1	1	Lecture	BB/ICT
2		Numerical problems	K2	1	Lecture	BB/ICT
ASSIGNMENT-I						
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO2	Describing KVL with current source (super mesh analysis)	K2	1	Lecture	ICT
2		Numerical problems	K2	1	Lecture	ICT

ASSIGNMENT-II						
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO3	Performance of KCL with current source	K2	1	Lecture	ICT
2		Numerical problems	K2	1	Lecture	ICT
ASSIGNMENT-III						
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO4	Advantages of 3-phase system over 1-phase system	K2	1	Lecture	ICT
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO5	Different types of connections in 3-phase systems	K2	1	Lecture	ICT
2		Relation between Line voltage and phase voltage & Line currents and phase currents in balanced three phase circuit	K2	1	Lecture	ICT
ASSIGNMENT-IV						

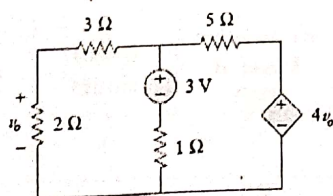
Total no. of hours: 09

ASSIGNMENT-I

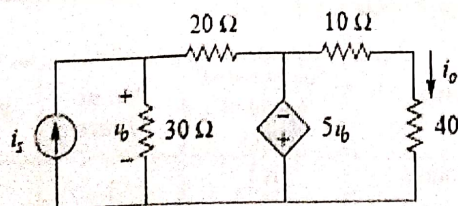
- Determine I_b in the circuit using nodal analysis.



- Using nodal analysis, find v_o in the circuit ?

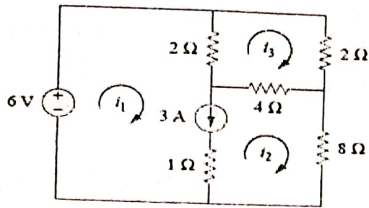


- Calculate the current gain i_o/i_s in the circuit of

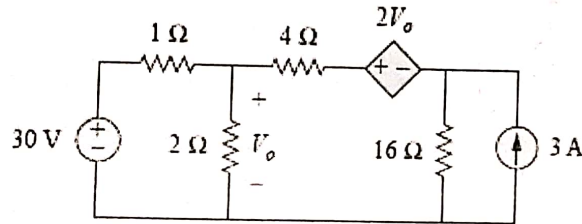


ASSIGNMENT-II

1. Use mesh analysis to determine i_1, i_2 and i_3

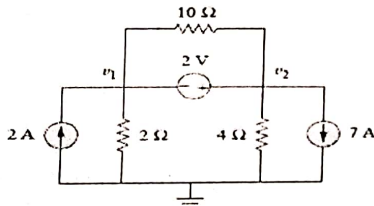


2. Use nodal analysis to find V_o in the circuit of Fig

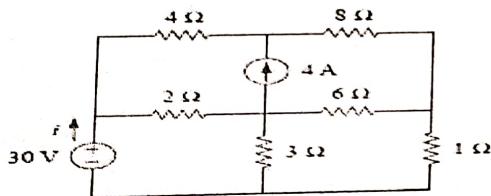


ASSIGNMENT-III

1. For the circuit shown in Fig. find the node voltages



2. Find current i in the circuit of Fig



ASSIGNMENT-IV

1. One line voltage of a balanced Y-connected source is $V_{AB} = 240 \angle -20^\circ$ V. If the source is connected to a Δ -connected load of $20 \angle 40^\circ \Omega$, find the phase and line currents. Assume the abc sequence.
2. A positive-sequence, balanced Δ -connected source supplies a balanced Δ -connected load. If the impedance per phase of the load is $18 + j12 \Omega$ and $I_a = 19.202 \angle 35^\circ$ A, find I_{AB} and V_{AB} .
3. Determine the phase sequence of the set of voltages

$$v_{an} = 200 \cos(\omega t + 10^\circ)$$

$$v_{bn} = 200 \cos(\omega t - 230^\circ), \quad v_{cn} = 200 \cos(\omega t - 110^\circ)$$

- 4 Calculate the line currents in the three-wire Y-Y system of Fig. 12.13.

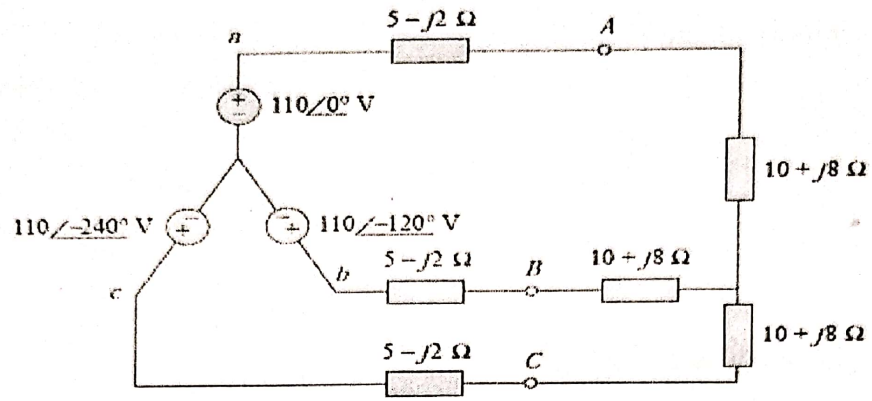


Figure 12.13

LESSON PLAN FOR BRIDGE COURSE

Academic Year: 2022-23

Programme: B. Tech

Semester: III

Branch: EEE

Name of the Course: Programming in 'C' for problem Solving

COURSE OUTCOMES:

Course Outcomes (Along with Knowledge Level):

After Completion of the course Students will be able to:

CO Number	Course Outcome	Knowledge Level
CO1	Describe various problem solving strategies such as Algorithms and Flowcharts	K2
CO2	Develop various programming constructs using Control Structures	K3
CO3	Summarize the process of modular programming approach	K3
CO4	Illustrate the usage of String handling functions and pointers	K3
CO5	Construct Programs using Structures , Union and Files	K3

Text Books:

1. Programming in C, Ashok N Kamthane, Amit Ashok Kamthane, Pearson Education, 3rd Edition.
2. C :The Complete Reference, Herbert Schildt, Tata McGraw Hill, 4th Edition.
3. Programming in C, Reema Thareja, Oxford University Press, 1st Edition.
4. Let Us C, Yashavant P. Kanetkar, BPB Publications, 15th Edition.

Reference Books:

1. Programming with C, Byron S Gottfried, Tata McGrawhill, 2nd Edition.
2. Problem Solving and Program design in C, Hanly J R & Koffman E.B, Pearson Education, 7th Edition.
3. Foundations of Computer Science (C Edition), Alfred V. Aho, Jeffrey D. Ullman, W. H. Freeman publishers, 1992.
4. Programming and Problem Solving Using C, ISRD Group, ACE series, Tata McGraw Hill, 2008.
5. Programming in C, Pradip Dey, Manas Ghosh, Oxford University Press, 2nd Edition.

S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO1	Describe different Problem Solving Strategies and algorithms and flowcharts	K1	1	Lecture	BB/ICT
2		Explain different types of Programming Languages and differences between Compiler, Assembler and Linker	K2	1	Lecture	BB/ICT
3		Discuss the History ,Importance of C and structure of C Program	K2	1	Lecture	BB/ICT
4		Explain different Data types and variables	K2	1	Lecture	BB/ICT
5		Discuss different types of constants, input and output functions	K2	1	Lecture	BB/ICT
ASSIGNMENT-I						
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO2	Explain Arithmetic, Relational and Logical Operators	K2	1	Lecture	ICT
2		Explain Increment, Decrement ,Conditional operator and Assignment operator	K2	1	Lecture	ICT
3		Explain Bitwise operators, special operators Expressions	K2	1	Lecture	ICT
4		Illustrate Type conversions with suitable examples	K3	1	Lecture	ICT
5		Discuss Precedence, Associativity, Order of evaluation	K2	1	Lecture	ICT
ASSIGNMENT-II						
6		Explain Conditional statements – Types of if statements	K2	1	Lecture	ICT
7		Illustrate Switch-case constructs with suitable examples	K3	1	Lecture	ICT
8		Differentiate and Illustrate Loops-While loop & do while loop	K2	1	Lecture	ICT
9		Illustrate for loop with suitable examples	K3	1	Lecture	ICT
ASSIGNMENT-III						
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO3	Experiment different types of Functions	K3	1	Lecture	ICT
2		Illustrate different Parameter Passing Techniques	K3	1	Lecture	ICT
3		Explain Recursion	K3	1	Lecture	ICT
4		Describe Storage Classes, Compare different Types of Storage Classes	K2	1	Lecture	ICT
5		Define, initialize and access the pointer variable	K1	1	Lecture	ICT
ASSIGNMENT-IV						
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids

1	CO4	Explain 1-D Arrays and 2-D Arrays, Multi Dimensional Arrays	K3	1	Lecture	ICT
2		Develop programs on String handling functions	K3	2	Lecture	ICT
ASSIGNMENT-V						
S.No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	CO5	Categorize Derived types, Structures declaration, Initialization of structures, accessing structures	K3	1	Lecture	ICT
2		Differentiate nested structures, arrays of structures	K2	1	Lecture	ICT
3		Develop programs on structures and functions, pointers to structures	K3	1	Lecture	ICT
4		Differences between structure and union	K3	1	Lecture	ICT
5		Develop programs on Declaring, Opening, and Closing , Reading from and Writing to Text Files	K3	1	Lecture	ICT
ASSIGNMENT-VI						

Total no. of hours: 27

ASSIGNMENT-I

1. Write algorithm and flow chart for biggest of three numbers.
2. Explain different datatypes in C with size and range of values.

ASSIGNMENT-II

1. Explain bitwise operators with suitable examples.
2. You will be given 3 integers as input. The inputs may or may not be different from each other. You have to output 1 if all three inputs are different from each other, and 0 if any input is repeated more than once.

ASSIGNMENT-III

1. Develop a program to find largest of given 3 numbers
2. Develop a program to reverse a given number

ASSIGNMENT-IV

1. Develop a program to create a function for GCD of two numbers
2. Construct a Recursive function for print 'n' Fibonacci Numbers.

ASSIGNMENT-V

1. Develop a program for search an element from the Array.
2. Develop a program for find a substring in the given string without string library functions.

ASSIGNMENT-VI

1. Develop a program to access the members of a structure
2. Develop a program to create a File and Display the contents of a file.



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society)
(Approved by AICTE, New Delhi & Recognized by UGC under section 2(f) & 12(B))
(Permanently affiliated to JNTUK, Kakinada, Accredited by NBA and NAAC with 'A' Grade)
Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

Department of Electrical & Electronics Engineering (NBA Accredited)

Ref. No: SVEC/EEE/Office/2022-23/62

Date: 23-09-2022

A.Y. 2022-23

Bridge Course for III Semester Lateral Entry Students

Today's Attendance Report

Semester	Total No. of Students	Absent	Present
B.Tech III Semester	34	13 (009/LE/EEE/2022, 11, 12, 13, 15, 19, 20, 24, 25, 26, 27, 31 & 32)	21


Head of the Department

Department Vision:

- To evolve as a centre of excellence in Electrical and Electronics Engineering that produces graduates of high quality with ethical values.

Department Mission:

- To impart technical knowledge through learner-centric education supplemented with practical exposure.
- To provide opportunities that promote personality development through co-curricular and extra-curricular activities.
- To inculcate human values & team spirit that enables the Electrical and Electronics Engineers to face the future challenges.



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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

Department of Electrical & Electronics Engineering (NBA Accredited)

Ref. No: SVEC/EEE/Office/2022-23/61

Date: 22-09-2022

A.Y. 2022-23

Bridge Course for III Semester Lateral Entry Students

Today's Attendance Report

Semester	Total No. of Students	Absent	Present
B.Tech III Semester	34	13 (009/LE/EEE/2022, 11, 12, 13, 15, 22, 24, 25, 27, 28, 29, 32 & 33)	21


Head of the Department

Dr. Sudha Rani Donepudi, M.E., Ph.D
Head of the Department
Electrical & Electronics Engineering
SRI VASAVI ENGINEERING COLLEGE
(Autonomous)

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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)


Department of Electrical & Electronics Engineering (NBA Accredited)

Ref. No: SVEC/EEE/Office/2022-23/60

Date: 21-09-2022

Circular

This is to inform that **Bridge Courses** for students admitted for III Semester in batch (2021-2025) as **Lateral Entries** will be conducted from 21-09-2022 to 01-10-2022. The schedule and handout of Bridge Course are attached to this circular. All students must attend the Bridge Course without fail.


Head of the Department
Dr. Sudha Rani Donepudi, M.E., Ph.D
Head of the Department
Electrical & Electronics Engineering
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Department Mission:

- To impart technical knowledge through learner-centric education supplemented with practical exposure.
- To provide opportunities that promote personality development through co-curricular and extra-curricular activities.
- To inculcate human values & team spirit that enables the Electrical and Electronics Engineers to face the future challenges.



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society)
(Approved by AICTE, New Delhi & Recognized by UGC under section 2(f) & 12(B))
(Permanently affiliated to JNTUK, Kakinada, Accredited by NBA and NAAC with 'A' Grade)
Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

Department of Electrical & Electronics Engineering (NBA Accredited)

Schedule of Bridge Course for Lateral Entry Students

A.Y. 2022-23

Date/Time	1		2		3		4		5	6	7
	09:30 AM - 10:30 AM	10:30 AM - 11:20 AM	11:20 AM - 12:10 PM	12.10 PM - 1.00 PM	1.00 PM - 2.00 PM	2.00 PM - 4.30 PM					
22-09-2022 THU	English Communication Skills (English Lab Diploma Block)		Electrical Circuit Analysis (BS&H - 104)		Mathematics (BS&H - 302)		LUNCH		Programming in 'C' for problem solving (James Gosling Lab)		
23-09-2022 FRI	English Communication Skills (English Lab Diploma Block)		Electrical Circuit Analysis (BS&H - 104)		Mathematics (BS&H - 302)				Programming in 'C' for problem solving (James Gosling Lab)		
24-09-2022 SAT	Electrical Circuit Analysis (BS&H - 104)	Mathematics (BS&H - 302)	English Communication Skills (English Lab Diploma Block)						Programming in 'C' for problem solving (James Gosling Lab)		
26-09-2022 MON	Electrical Circuit Analysis (BS&H - 104)	Mathematics (BS&H - 302)	English Communication Skills (English Lab Diploma Block)						Programming in 'C' for problem solving (James Gosling Lab)		
27-09-2022 TUE	Mathematics (BS&H - 302)	Electrical Circuit Analysis (BS&H - 104)	English Communication Skills (English Lab Diploma Block)						Programming in 'C' for problem solving (James Gosling Lab)		
28-09-2022 WED	Mathematics (BS&H - 302)	Electrical Circuit Analysis (BS&H - 104)	English Communication Skills (English Lab Diploma Block)						Programming in 'C' for problem solving (James Gosling Lab)		
29-09-2022 THU	English Communication Skills (English Lab Diploma Block)		Mathematics (BS&H - 302)	Electrical Circuit Analysis (BS&H - 104)		Programming in 'C' for problem solving (James Gosling Lab)					
30-09-2022 FRI	Electrical Circuit Analysis (BS&H - 104)	Mathematics (BS&H - 302)	English Communication Skills (English Lab Diploma Block)						Programming in 'C' for problem solving (James Gosling Lab)		
01-10-2022 SAT	Electrical Circuit Analysis (BS&H - 104)	Mathematics (BS&H - 302)	English Communication Skills (English Lab Diploma Block)						Programming in 'C' for problem solving (James Gosling Lab)		

S. No	Name of the Course	Name of the Faculty	Venue
1	English Communication Skills	Mr. G. Srinivasa Rao	English Lab Diploma Block
2	Mathematics	Mrs. B. Adilakshmi	BS&H - 302
3	Electrical Circuit Analysis	Mr. N. Sankar	BS&H - 104
4	Programming in 'C' for problem solving	Mr. R.L. Phani Kumar / Mr. Ch. Hemanand	James Gosling Lab - CSE Block

Head of the Department
Dr. Sudha Rani Donepudi, M.E., Ph.D
 Head of the Department
 Electrical & Electronics Engineering
SRI VASAVI ENGINEERING COLLEGE
 (Autonomous)

Department Vision:

- To evolve as a centre of excellence in Electrical and Electronics Engineering that produces graduates of high quality with ethical values.

Department Mission:

- To impart technical knowledge through learner-centric education supplemented with practical exposure.
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ACADEMIC YEAR 2022-23



CLASS CONSOLIDATED TIME TABLE FOR LATERAL ENTRY STUDENTS

BATCH - 2 ECE, ECT & ME

Periods	1	2	3	4		5	6	7
Date	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-2:00	2:00-2:50	2:50-3:40	3:40-4:30
22/09/22	DEPT. ACTIVITIES	MATHS	ENGLISH		LUNCH BREAK	C PROGRAMMING		
23/09/22	DEPT. ACTIVITIES	MATHS	ENGLISH			C PROGRAMMING		
24/09/22	ENGLISH		MATHS	DEPT. ACTIVITIES		C PROGRAMMING		
26/09/22	ENGLISH		MATHS	DEPT. ACTIVITIES		C PROGRAMMING		
27/09/22	ENGLISH		MATHS	DEPT. ACTIVITIES		C PROGRAMMING		
28/09/22	ENGLISH		MATHS	DEPT. ACTIVITIES		C PROGRAMMING		
29/09/22	DEPT. ACTIVITIES	MATHS	ENGLISH			C PROGRAMMING		
30/09/22	ENGLISH		MATHS	DEPT. ACTIVITIES		C PROGRAMMING		
01/10/22	ENGLISH		MATHS	DEPT. ACTIVITIES		C PROGRAMMING		

Staff Details

S.NO	Course Name	Name of the Faculty
1.	DEPT.ACTIVITIES	Dr. T.V.N.L.Aswini
		Mr. D.V.N. Prabhakar
2.	MATHS	Dr. N.N.V.Sakunthala
3.	ENGLISH	Mrs. K.Radha Madhavi
4.	C PROGRAMMING	Mrs. M.N.V.Surekha
		Mr. K.Lakshmi Narayana

Venue Details

S.NO	Course Name	Room No.
1.	DEPT. ACTIVITIES	D-304 (ECE&ECT)
		LH-201 (ME)
2.	MATHS	BSH-303
3.	ENGLISH	Polytechnic Block Lab
4.	C PROGRAMMING	E.F.CODD Lab


HOD-ECE


HOD-ME


PRINCIPAL



BRIDGE COURSE SYLLABUS FOR ECE, MECH

CO1: System of linear equations:

1 hour

Rank – Echelon form-Solution of linear system of equations – Scientific calculator Usage.

CO2: Differential equations of first order, first degree & second and higher order:

2 hours

Linear – Exact – Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$

CO3: Laplace Transforms

3 hours

Laplace transforms-introduction– Definition and Laplace transforms of standard functions– properties -Shifting theorems– Transforms of derivatives and integrals.

Inverse Laplace Transforms and Applications

Inverse Laplace transforms –properties- inverse Laplace transforms of derivatives and integrals - Convolution theorem,

Applications: Solving ordinary differential equations (initial value problems) using Laplace transforms.

CO4: Z – Transforms

2 hours

Z – Transforms – Properties– Damping Rule – Shifting Rule – Initial and Final value Theorems – Inverse Z-Transforms-properties– Convolution Theorem

Applications: Solutions of Difference equation by Z - transforms.

CO5: Fourier series for the periodic signals:

1 hour

Definitions – even and odd functions – Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.

Text Books:

1. B.S.Grewal, Higher Engineering Mathematics, 43rd Edition, Khanna Publishers.
2. N.P.Bali, Engineering Mathematics, Lakshmi Publications.
3. B. V. Raman, Tata Mc Graw Hill, A text Book of Engineering Mathematics.

Reference Books:

1. Erwin Kreyszig, Wiley India Pvt. Ltd, Advanced Engineering Mathematics.
2. Churchill, Complex Variables and applications.

***** NOTE: ALL THE STUDENTS MUST CARRY SCIENTIFIC CALCULATOR FROM DAY-1*****



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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

LESSON PLAN

Academic Year : 2022-23
Name of the Course : Bridge Course for Lateral Entry Students
Programme : B. Tech
Semester : III
Branch : ECE, MECH

Course Outcomes (Along with Knowledge Level):

S.NO	CO No.	Course Outcome	BTL
1	C01	Apply matrix technique to solve linear system of equations	K3
2	C02	Solve ODE of first order, first degree and second and higher order and Applications	K3
3	C03	apply the Laplace transform for solving differential equations	K3
4	C04	apply the Z- transform for solving difference equations	K3
5	C05	Find the Fourier series for the periodic signals	K3

Lecture Plan:

S. No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours required	Pedagogy	Teaching Aids
		CO1: System of linear equations	K3	1		
1	CO1	Define matrix, types of matrices, Elementary row and column operations, Explain Echelon form, System of equations and consistency	K2	1	Lecture Method	Black Board
		CO2: Differential equations of first order, first degree and second and higher order	K3	2		
2	CO2	Definition of differential equation, order, degree. solve the linear ODE. Explain exact differential equations	K2	1	Lecture Method	Black Board
3	CO2	Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$	K3	1	Lecture Method	Black Board
		CO3: Laplace Transforms	K1	3		
4	CO3	Define Laplace transforms, properties of Laplace Transforms, Laplace transform of standard functions.	K1	1	Lecture Method	Black Board
5	CO3	Derivatives and integrals, multiplication by t^n and divisible by 't'	K1	1	Lecture Method	Black Board
6	CO3	Define Inverse Laplace transforms, properties, Inverse Laplace transforms by using partial fractions, Inverse Laplace transforms of Derivatives and integrals and multiplication and divisible by 's', Inverse Laplace transforms using Convolution theorem.	K1	1	Lecture Method	Black Board
		CO4: Z-Transforms	K3	2		
7	CO4	Define Z- transforms , Z-transform of standard functions, properties of Z-transforms, initial and final value theorems, Z-transforms of functions multiplication by n and division by n	K3	2	Lecture Method	Black Board
		CO5: Fourier series for the periodic signals	K3	1	Lecture Method	Black Board
9	CO5	Definitions – even, odd and periodic functions Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.	K3	1	Lecture Method	Black Board


 (HOD, BOEAS) 22/09/2022



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Pedatadepalli, **TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)**

Ref.No : SVEC/ Admn./ Circular/ 2022-23/ 37

Principal's Office
Date: 20-09-2022

Circular

An Orientation Programme for B.Tech Lateral Entry Students (2022-23 Batch) will be held at 10.00 a.m. on 21-09-2022.

All the Deans, HODs, Section Heads and faculty handling bridge courses are requested to join the orientation programme, followed by lunch.

Venue: Swami Vivekananda Seminar Hall


PRINCIPAL

Copy to :

1. Deans | HODs | Section Heads
2. HODs with a request to circulate among their Staff & LE Students (2022-23) Batch
3. I/C Polytechnic Program
4. Exam Section | Library | T&P | Hostels | Office | Circular File
5. Sri Ch. Apparao, Director Technical for information
6. Secretary & Correspondent for information | President for information

Vision

To be a premier technological institute striving for excellence with global perspective and commitment to the nation.

Mission

- To produce Engineering graduates of professional quality and global perspective through learner-centric education.
- To establish linkages with government, industry and Research laboratories to promote R&D activities and to disseminate innovations.
- To create an eco-system in the institute that leads to holistic development and ability for life-long learning.



SRI VASAVI ENGINEERING COLLEGE (Autonomous)

PEDATADEPALLI, TADEPALLIGUDEM-534 101

Department of Computer Science & Engineering (Accredited by NBA)

Ref. No: SVEC/CSE/2022-23/I Sem/Circular/17

Date: 20/09/2022

CIRCULAR

It is to bring to your kind notice that the following faculty members are allocated for Bridge Course for ECET Students from 22/09/2022 to 01/10/2022 from CSE Department.

Faculty SPOC : Mr. G Sriram Ganesh

S.No.	Branch	Course Name	Faculty Members	Signature
1.	CSE, CST, CAI and AIM	C Programming	Mr. P Uma Sankar	
			Mr. M Raghu Chandra	
		Python Programming	Mrs. A Leelavathi	
			Mr. K Lakshmaji	
2.	ECE, ECT and MECH	C Programming	Mr. K Lakshmi Narayana	<i>K. Lakshmi Narayana</i>
			Mrs. M N V Surekha	<i>M. N. V. Surekha</i>
3.	EEE and CIVIL		Mr. R L Phani Kumar	
			Mr. Ch Hemanandh	

[Signature]
20/09/2022
Head of the Department
Head of the Department
Dept. of Computer Science & Engineering
Sri Vasavi Engineering College
TADEPALLIGUDEM-534 101

Vision: To evolve as a centre of academic and research excellence in the area of Computer Science and Engineering.

Mission: To utilize innovative learning methods for academic improvement.
To encourage higher studies and research to meet the futuristic requirements of Computer Science and Engineering.
To inculcate Ethics and Human values for developing students with good character.



LESSON PLAN FOR BRIDGE COURSE

Academic Year: 2022-23

Programme: B. Tech.

Branch: ECE, ME

Name of the Course: Programming in 'C' for problem Solving

COURSE OUTCOMES:

Course Outcomes (Along with Knowledge Level):

After Completion of the course Students will be able to:

CO Number	Course Outcome	Knowledge Level
CO1	Describe various problem solving strategies such as Algorithms and Flowcharts.	K2
CO2	Develop various programming constructs using Control Structures.	K3
CO3	Illustrate the process of modular programming approach.	K3
CO4	Illustrate the usage of String handling functions and pointers.	K3
CO5	Construct Programs using Structures, Union and Files.	K3

Text Books:

1. Programming in C, Ashok N Kamthane, Amit Ashok Kamthane, Pearson Education, 3rd Edition.
2. C :The Complete Reference, Herbert Schildt, TataMcgraw Hill, 4th Edition.
3. Programming in C, ReemaThareja, Oxford University Press, 1st Edition.
4. Let Us C, YashavantP.Kanetkar, BPB Publications, 15th Edition.

Reference Books:

1. Programming with C, Byron S Gottfried, Tata McGrawhill, 2nd Edition.
2. Problem Solving and Program design in C, Hanly J R &Koffman E.B, Pearson Education, 7th Edition.
3. Foundations of Computer Science (C Edition), Alfred V. Aho, JeffreyD.Ullman, W. H. Freeman publishers, 1992.
4. Programming and Problem Solving Using C, ISRD Group, ACE series, TataMcGraw Hill, 2008.
5. Programming in C, PradipDey, ManasGhosh, Oxford University Press, 2nd Edition.



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S. No	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids	
1	22-09-2022	CO1	Describe different Problem Solving Strategies and algorithms and flowcharts	K1	1	Lecture	ICT	
2			Explain different types of Programming Languages and differences between Compiler, Assembler and Linker	K2	1	Lecture	ICT	
3			Discuss the History ,Importance of C and structure of C Program	K2	1	Lecture	ICT	
4	23-09-2022		Discuss variables, constants, data types, input and output functions	K2	1	Lecture	ICT with Hands on	
ASSIGNMENT-I								
S. No	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids	
1	23-09-2022	CO2	Explain Arithmetic, Relational, Logical Operators, Assignment operator, and Increment & decrement operators	K2	1	Lecture	ICT with Hands on	
2			Explain Bitwise operators, conditional operator, and special operators, Expressions	K2	1	Lecture	ICT with Hands on	
3	24-09-2022		Illustrate Type conversions with suitable examples	K3	1	Lecture	ICT with Hands on	
4			Discuss Precedence, Associativity, Order of evaluation	K2	1	Lecture	ICT with Hands on	
ASSIGNMENT-II								
5	24-09-2022		Explain Conditional statements – Types of if statements	K2	1	Lecture	ICT with Hands on	
6	26-09-2022		Illustrate switch-case constructs with suitable examples	K3	1	Lecture	ICT with Hands on	
7			Differentiate and Illustrate Loops-While loop & do-while loop	K2	1	Lecture	ICT with Hands on	
8		Illustrate for loop with suitable examples	K3	1	Lecture	ICT with Hands on		
ASSIGNMENT-III								
S. No	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids	
1	27-09-2022	CO3	Experiment different types of functions	K3	1	Lecture	ICT with Hands on	
2			Illustrate different Parameter Passing Techniques	K3	1	Lecture	ICT with Hands on	
3			Explain Recursion	K3	1	Lecture	ICT with Hands on	
4	28-09-2022		Describe Storage Classes, Compare different Types of Storage Classes	K2	1	Lecture	ICT with Hands on	
5			Define, initialize and access the pointer variable	K1	1	Lecture	ICT with Hands on	
6			Illustrate Pointer Arithmetic	K3	1	Lecture	ICT with Hands on	
ASSIGNMENT-IV								
S. No	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids	
1	29-09-2022	CO4	Explain 1-D Arrays and 2-D Arrays, Multi Dimensional Arrays	K3	1	Lecture	ICT with Hands on	
2			Develop Programs on Arrays	K3	1	Lecture	ICT with Hands on	



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3			Develop programs on String handling functions using arrays	K3	1	Lecture	ICT with Hands on
4	30-09-2022		Develop programs on String handling functions using pointers	K3	1	Lecture	ICT with Hands on
ASSIGNMENT-V							
S. No	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	30-09-2022	CO5	Categorize Derived types, Structures declaration, Initialization of structures, accessing structures	K3	1	Lecture	ICT with Hands on
2			Differentiate nested structures, arrays of structures	K2	1	Lecture	ICT with Hands on
3	Develop programs on structures and functions, pointers to structures		K3	1	Lecture	ICT with Hands on	
4	01-10-2022		Differences between structure and union	K3	1	Lecture	ICT with Hands on
5	Develop programs on Declaring, Opening, and Closing , Reading from and Writing to Text Files		K3	1	Lecture	ICT with Hands on	
ASSIGNMENT-VI							

Total no. of hours: 27

* ICT: Information and Communications Technology



5

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ASSIGNMENT-I

1. Develop an algorithm and flow chart for biggest of three numbers.
2. Explain different data types in C with size and range of values.

ASSIGNMENT-II

1. Explain bitwise operators with suitable examples.
2. Develop a program where you will be given 3 integers as input. The inputs may or may not be different from each other, your program has to output 1 if all three inputs are different from each other, and 0 if any input is repeated more than once.

ASSIGNMENT-III

1. Develop a program to find largest of given 3 numbers
2. Develop a program to reverse a given number

ASSIGNMENT-IV

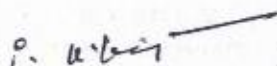

1. Develop a program to create a function for GCD of two numbers
2. Construct a Recursive function for print 'n' Fibonacci Numbers.

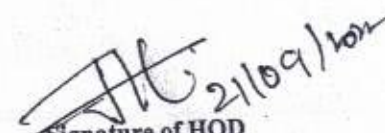
ASSIGNMENT-V

1. Develop a program for searching an element in the Array.
2. Develop a program for find a substring in the given string without string library functions.

ASSIGNMENT-VI

1. Develop a program to access the members of a structure.
2. Develop a program to create a File and Display the contents of a file.

i. 
ii. P.N.V. Susree 
Signature of Faculty

 21/09/2022
Signature of HOD
Head of the Department
Dept. of Computer Science & Engineering
Sri Vasavi Engineering College
TADEPALLIGUDEM-534 101



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Pedatadepalli, **TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)**

Ref.No : SVEC/ Admn./ Circular/ 2022-23/ 37

Principal's Office
Date: 20-09-2022

Circular

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2. HODs with a request to circulate among their Staff & LE Students (2022-23) Batch
3. I/C Polytechnic Program
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6. Secretary & Correspondent for information | President for information

Vision

To be a premier technological institute striving for excellence with global perspective and commitment to the nation.

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- To establish linkages with government, industry and Research laboratories to promote R&D activities and to disseminate innovations.
- To create an eco-system in the institute that leads to holistic development and ability for life-long learning.

Semester	II SEM	L	T	P	C	COURSE CODE
Regulation	V20	-	-	3	1.5	V2OECT01
Name of the Course	Switching Theory and Logic Design					
Branches	Common to EEE, ECE, ECT, CSE & CST					

Course Outcomes (CO's) (Along with Knowledge Level (K)):

After going through this course the student will be able to

CO No.	Course Outcome	Knowledge Level
CO-1	Explain the different types of number Systems, number conversions, codes and logic Gates.	K ₂
CO-2	Apply the concepts of Boolean algebra and use the knowledge of K-maps and tabular method for minimization of Boolean expressions.	K ₃
CO -3	Construct the higher order modules from their lower order structures of various combinational logic circuits.	K ₃
CO-4	Explain the concept of various flip flops	K ₂
CO-5	Develop various sequential circuits like registers, counters and various Finite State Machine Models	K ₃

Unit - I: Number Systems & Codes:

Representation of numbers of different radix, conversation from one radix to another radix, r and $(r-1)$'s compliment of signed members. Basic logic operations -NOT, OR, AND, Universal building blocks, EX-OR, EX-NOR – Gates.

Binary codes: BCD, Excess-3, Gray code, 2421, 84-2-1, error detection, error correction codes -Hamming Code

Unit - II :Minimization Techniques

Boolean theorems, principle of complementation & duality, De-morgan theorems, minimization of logic functions using Boolean theorems, Standard SOP and POS, Forms, NAND-NAND and NOR-NOR realizations, minimization of switching functions using K-Map up to 5 variables, tabular minimization.

Unit - III :Combinational Logic Circuits Design

Half adder, full adder, half subtractor, full subtractor, Ripple Carry adder and subtractor, 4 bit binary adder-subtractor circuit, BCD adder circuit, Excess 3 adder circuit, Design of decoder, demultiplexer, 7 segment decoder, Implementation of higher order circuits using lower order circuits for MUX, DEMUX, DECODER, realization of Boolean functions using decoders and multiplexers, priority encoder.

Unit - IV :Sequential Circuits -I

Classification of sequential circuits (synchronous and asynchronous); basic flip-flops, truth tables and excitation tables (Nand RS latch, nor RS latch, RS flip-flop, JK flip-flop, T flip-flop, D flip-flop with reset and clear terminals). Asynchronous Inputs (Preset and Clear), Race around condition, Master Slave JK Flip flop, Conversion from one flip-flop to another flip-flop.

Unit - V :Sequential Circuits -II

Design of ripple counters, design of synchronous counters, Johnson counter, ring counter. Design of registers - Buffer register, control buffer register, shift register, bi-directional shift register, universal shift register.

Finite State Machine: Introduction to Mealy and Moore Finite state Machines

Text Books

1. Digital Design by M. Morris Mano, Michael D. Ciletti, PEA.
2. Fundamentals of Logic Design, 5/e Roth, Cengage.
3. Modern Digital Electronics by RP Jain, TMH

Reference Books

1. An Engineering Approach to Digital Design, William I. Fletcher, Pearson edition.
2. Switching Theory and Logic Design by A. Anand Kumar
3. Switching & Finite Automata Theory, 2nd Edition, ZviKohavi, TMH, 1978



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Pedatadepalli, TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)

LESSON PLAN

Academic Year: 2022

Programme: B.Tech

Section: ECE, ECT

Name of the Course: Switching Theory and Logic Design

Course Code: V20ECT01

Course Outcomes (Along with Knowledge Level):

S.No.	CO No.	Course Outcome	BTL/ Knowledge Level
1.	CO1	Explain the different types of number Systems, number conversions, codes and logic Gates.	K2
2.	CO2	Apply the concepts of Boolean algebra and use the knowledge of K-maps and tabular method for minimization of Boolean expressions.	K3
3.	CO3	Construct the higher order modules from their lower order structures of various combinational logic circuits.	K3
4.	CO4	Explain the concept of various flip flops	K2
5.	CO5	Develop various sequential circuits like registers, counters and various Finite State Machine Models.	K3

Text Books:

1. Digital Design by M. Morris Mano, Michael D. Ciletti, PEA.
2. Fundamentals of Logic Design, 5/e Roth, Cengage.
3. Modern Digital Electronics by RP Jain, TMH

Reference Books:

1. An Engineering Approach to Digital Design, William I. Fletcher, Pearson edition.
2. Switching Theory and Logic Design by A. Anand Kumar
3. Switching & Finite Automata Theory, 2nd Edition, ZviKohavi, TMH,1978

Lecture Plan:

S. No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1.NUMBER SYSTEMS & CODES						
1	CO1 (K ₂)	Conversation from one radix to another radix. Explain the basic logic operations -NOT, OR, AND	K2	1	Lecture with peer to peer discussion	Chalk & Board



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		and Universal building blocks				
		Explain the Error detection, error correction codes (parity checking, even parity, odd parity, Hamming code)	K2	1	Lecture with peer to peer discussion	Chalk & Board
2. MINIMIZATION TECHNIQUES						
2	C02 (K ₃)	Discuss Boolean theorems and laws and Minimize the logic functions	K2	1	Lecture Recitation	Chalk & Board
		Apply Boolean theorems to minimize switching functions using K-Map 2,3,4 variables, Tabular minimization	K3	1	Lecture with peer to peer discussion	Chalk & Board
3. COMBINATIONAL LOGIC CIRCUITS DESIGN						
3	C03 (K ₃)	Construct of Adders, subtractors, multiplexer, Demultiplexer Encoder, Decoder, Comparators	K3	1	Lecture with peer to peer discussion	Chalk & Board
4. SEQUENTIAL CIRCUITS I						
4	C04 (K ₂)	Describe RS latch, nor RS latch, Basic flip-flops RS flip-flop, JK flip-flop, T flip-flop, D flip-flop	K2	1	Lecture with peer to peer discussion	Chalk & Board
		Explain Truth tables and excitation tables. Conversion from one flip-flop to another flip-flop	K2	1	Lecture with peer to peer discussion	Chalk & Board
5. SEQUENTIAL CIRCUITS II						
5	C05 (K ₃)	Illustrate the Design of ripple counters, Johnson counter, ring counter	K3	1	Lecture with peer to peer discussion	Chalk & Board
		Explain the Design of registers - Shift register Buffer register Universal shift register.	K2	1	Lecture with peer to peer discussion	Chalk & Board
		Explain Mealy and Moore Finite state machine	K2	1	Lecture with peer to peer discussion	Chalk & Board
		Total No. of Hours		9		



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CO- PO & CO-PSO matrix:

COs/POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
CO1	1	1	1	1					1			3		1
CO2	2	1	1	1	2				1			3		2
CO3	2	1	1	1	2				1			3		2
CO4	1	1	1	1	1				1			3		1
CO5	2	1	1	1	2				1			3		2
Average Mapping	1.6	1.0	1.0	1.0	1.8				1.0			3.0		1.6

Details of Course Instructors:

S.No.	Name of Instructor with designation	Year/ Section	Contact No. & e-mail:	Signature of Course Instructor
1	Dr. T V N L ASWINI	ECE , ECT	aswini.thota@srivasa viengg.ac.in 9491723793	

Name of the Course Coordinator (**with designation**): Dr. T V N L ASWINI, Assistant Professor

Signature of the Course Coordinator

T V N L Aswini

Signature of the Head of the Department



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Pedatadepalli, **TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)**

Department of Electronics & Communication Engineering

Academic Year: 2022-23

EXAMINATION: Assignment

Programme: B.Tech LE Students	Branch: ECE, ECT
Course Code: V20ECT01	Course Title: Switching Theory and Logic Design

Instructions: 1. Answer all the questions
2. All questions carry equal marks

Maximum Marks:05

COX,KX	Question	Marks
(1) CO1,K2	(i) Solve the subtraction $(1110)_2 - (1010)_2$ using 2's complement & 1's complement methods. (ii) Solve the addition using excess-3 code for $386+756$. (iii) Predict the position of the error bit in a 7 bit Hamming code received as 1001001 and 0111001. Assume parity checks are created by odd parity. Develop a full adder using 3 to 8 decoder.	3M
(2) CO2,K3	(i) Discuss Demorgans law (ii) Compute the following to minimum number of literals. $A'B(D'+CD')+B(A+A'CD)$ (iii) Minimize the following expression using K-map and realize using NAND Gates. $F(A,B,C,D) = \sum (0,1,2,9,11) + d(8,10,14,15)$.	3M
(3) CO3,K3	(i) Construct 16×1 Mux using only 2×1 Mux. (ii) Implement $f(A,B,C,D) = \sum (0,2,3,6,8,9,13,14)$ using 8×1 MUX. (iii) Develop a full adder by using two half adders.	3M
(4) CO4,K2	(i) Convert SR flip-flop to JK-flip-flop. (ii) Distinguish combinational logic circuits and sequential circuits. (iii) Discuss the excitation tables for SR, D, JK and T flip-flops.	3M
(5) CO5,K3	(i) Design a mod -10 synchronous counter using JK flip-flops (ii) Discuss the capabilities and limitations of finite state machines? (iii) Explain universal shift register with neat circuit diagram.	3M

COX – Course Outcome

KX – Blooms Knowledge level (K1, K2, K3, K4, K5, and K6).

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Department of Electronics and Communication Engineering

III Semester Class Daily Attendance for LE Students ECE & ECT

Sl. No.	Branch	Roll No.	Name of the Student	22-09-2022	23-09-2022	24-09-2022
1.	ECE	001/LE/ECE/2022	ANGINA ANUSHKA		A. Anushka	A. Anushka
2.	ECE	002/LE/ECE/2022	GARAPATI SHANTHI			
3.	ECE	003/LE/ECE/2022	CHALLA SATYA SAI MANI KANTA			
4.	ECE	004/LE/ECE/2022	SHAIK TASLIM			
5.	ECE	005/LE/ECE/2022	ELIPE S V KARTHIKEYA KIRAN KUMAR			
6.	ECE	006/LE/ECE/2022	ANNAMREDDY NAGA VENKATA SAI DURGA ANJALI			
7.	ECE	007/LE/ECE/2022	SIVA SAI TEJA		A. Anjali	K.S.S.Teja
8.	ECE	008/LE/ECE/2022	AMBATI ABHILASH			A. Abhilash
9.	ECE	009/LE/ECE/2022	PEETHALA LOKESH			
10.	ECE	010/LE/ECE/2022	PODURI SITA RAM KUMAR			
11.	ECE	011/LE/ECE/2022	NAMANA AJAY SAI MAHESH			
12.	ECE	012/LE/ECE/2022	PALLEM SHADRAK			
13.	ECE	013/LE/ECE/2022	MATAM PREMA JYOTHI			
14.	ECE	014/LE/ECE/2022	VEDALA PRASANNA KUMARI			
15.	ECE	015/LE/ECE/2022	KOLLI JAYA RAJU			
16.	ECE	016/LE/ECE/2022	SUGGISETTI PAVANI VENKATA LAKSHMI GAYATHRI			
1.	ECT	001/LE/ECT/2022	ISUKAPATI RAVI			
2.	ECT	002/LE/ECT/2022	VARADA MOHAN			
3.	ECT	003/LE/ECT/2022	LANKA NAGAMANI			
4.	ECT	004/LE/ECT/2022	SAJJA BALA USHA KUMARI			
5.	ECT	005/LE/ECT/2022	SATYA SIVA SAI VARDHINEDI			
6.	ECT	006/LE/ECT/2022	CHINTALA CHARAN KARTHIK			

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Department of Electronics and Communication Engineering

III Semester Class Daily Attendance for LE Students ECE& ECT

Sl. No.	Branch	Roll No.	Name of the Student	26-09-2022	27-09-2022	28-09-2022
1.	ECE	001/LE/ECE/2022	ANGINA ANUSHKA			
2.	ECE	002/LE/ECE/2022	GARAPATI SHANTHI	G. Shanthi	G. Shanthi	G. Shanthi
3.	ECE	003/LE/ECE/2022	CHALLA SATYA SAI MANI KANTA	Ch. S. Sai Mani Kanta	Ch. S. Sai Mani Kanta	
4.	ECE	004/LE/ECE/2022	SHAIK TASLIM	A. Taslim	A. Taslim	
5.	ECE	005/LE/ECE/2022	ELIPE S V KARTHIKEYA KIRAN KUMAR	E. S. V. Kiran Kumar	E. S. V. Kiran Kumar	
6.	ECE	006/LE/ECE/2022	ANNAMREDDY NAGA VENKATA SAI DURGA ANJALI			
7.	ECE	007/LE/ECE/2022	SIVA SAI TEJA	K. S. S. Teja	K. S. S. Teja	K. S. S. Teja
8.	ECE	008/LE/ECE/2022	AMBATI ABHILASH	A. Abhibash	A. Abhibash	A. Abhibash
9.	ECE	009/LE/ECE/2022	PEETHALA LOKESH			
10.	ECE	010/LE/ECE/2022	PODURI SITA RAM KUMAR	P. Sita Ram Kumar	P. Sita Ram Kumar	P. Sita Ram Kumar
11.	ECE	011/LE/ECE/2022	NAMANA AJAY SAI MAHESH	N. Ajay Sai Mahesh	N. Ajay Sai Mahesh	N. Ajay Sai Mahesh
12.	ECE	012/LE/ECE/2022	PALLEM SHADRAK			
13.	ECE	013/LE/ECE/2022	MATAM PREMA JYOTHI	M. Prema Jyothi	M. Prema Jyothi	M. Prema Jyothi
14.	ECE	014/LE/ECE/2022	VEDALA PRASANNA KUMARI			
15.	ECE	015/LE/ECE/2022	KOLLI JAYA RAJU	K. Jaya Raju		
16.	ECE	016/LE/ECE/2022	SUGGISETTI PAVANI VENKATA LAKSHMI GAYATHRI			
1.	ECT	001/LE/ECT/2022	ISUKAPATI RAVI			
2.	ECT	002/LE/ECT/2022	VARADA MOHAN	V. Mohan		
3.	ECT	003/LE/ECT/2022	LANKA NAGAMANI			
4.	ECT	004/LE/ECT/2022	SAJJA BALA USHA KUMARI			
5.	ECT	005/LE/ECT/2022	SATYA SIVA SAI VARDHINEDI			
6.	ECT	006/LE/ECT/2022	CHINTALA CHARAN KARTHIK			

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Department of Electronics and Communication Engineering

III Semester Class Daily Attendance for LE Students ECE & ECT

Sl. No.	Branch	Roll No.	Name of the Student	29-09-2022	30-09-2022	01-10-2022
1.	ECE	001/LE/ECE/2022	ANGINA ANUSHKA			
2.	ECE	002/LE/ECE/2022	GARAPATI SHANTHI	G. Shantha		
3.	ECE	003/LE/ECE/2022	CHALLA SATYA SAI MANI KANTA			
4.	ECE	004/LE/ECE/2022	SHAIK TASLIM			
5.	ECE	005/LE/ECE/2022	ELIPE S V KARTHIKEYA KIRAN KUMAR			
6.	ECE	006/LE/ECE/2022	ANNAMREDDY NAGA VENKATA SAI DURGA ANJALI			
7.	ECE	007/LE/ECE/2022	SIVA SAI TEJA			
8.	ECE	008/LE/ECE/2022	AMBATI ABHILASH	K.S. Teja	A. Abhinish	A. Abhinish
9.	ECE	009/LE/ECE/2022	PEETHALA LOKESH			
10.	ECE	010/LE/ECE/2022	PODURI SITA RAM KUMAR	P. Sita Ram Kumar		
11.	ECE	011/LE/ECE/2022	NAMANA AJAY SAI MAHESH	N. Ajay Sai Mahesh		N. Ajay Sai Mahesh
12.	ECE	012/LE/ECE/2022	PALLEM SHADRAK			
13.	ECE	013/LE/ECE/2022	MATAM PREMA JYOTHI	M. Premajyothi		
14.	ECE	014/LE/ECE/2022	VEDALA PRASANNA KUMARI			
15.	ECE	015/LE/ECE/2022	KOLLI JAYA RAJU			
16.	ECE	016/LE/ECE/2022	SUGGISETTI PAVANI VENKATA LAKSHMI GAYATHRI			
1.	ECT	001/LE/ECT/2022	ISUKAPATI RAVI			
2.	ECT	002/LE/ECT/2022	VARADA MOHAN			
3.	ECT	003/LE/ECT/2022	LANKA NAGAMANI			
4.	ECT	004/LE/ECT/2022	SAJJA BALA USHA KUMARI			
5.	ECT	005/LE/ECT/2022	SATYA SIVA SAI VARDHINEDI			
6.	ECT	006/LE/ECT/2022	CHINTALA CHARAN KARTHIK			

ACADEMIC YEAR 2019-20



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

Podatadepalli, TADEPALLIGUDEM-534 101, W.G. Dist.

Department Of Electronics and Communication Engineering

Time Table for Lateral Entry Students (Bridge Courses)

Periods	1	2	3	4		5	6	7
Time	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-2:00	2:00-2:50	2:50-3:40	3:40-4:30
Day								
Mon					Lunch Break	C Programming		
Tue						Mathematics		
Wed						C Programming		
Thu						Mathematics		
Fri								
Sat								

Staff Details:

S. NO.	COURSE NAME	Faculty Name
1.	C Programming	Sri M.Nageswara Rao
2.	Mathematics	Sri D.N.V.Ramakrishna

Handwritten signatures:
M. Nageswara Rao
D.N.V. Ramakrishna

Handwritten signature: E. Komalini

Head of the Department

Vision:

To develop the department into a centre of excellence and produce high quality, technically competent and responsible Electronics and Communication Engineers.

Mission:

- To create a learner centric environment that promotes the intellectual growth of the students.
- To develop linkages with R & D organizations and educational institutions for excellence in teaching, learning and consultancy practices.
- To build the student community with high ethical standards.

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Department of Electronics and Communication Engineering

III Semester Class Daily Attendance for LE Students

S.NO	Branch	Roll No	Name of the Student	19/7/19	20/7/19	22/7/19	23/7/19
1	ECE	001/LE/ECE/2019	R.PREMSAGAR	Prem Sagar	Prem Sagar	Prem Sagar	Prem Sagar
2	ECE	002/LE/ECE/2019	M.GANESH KUMAR	M.Ganesh	M.Ganesh	M.Ganesh	M.Ganesh
3	ECE	003/LE/ECE/2019	CH.V.SUBBARAO	Subbarao	Subbarao	Subbarao	Subbarao
4	ECE	004/LE/ECE/2019	N.PRASANTH	N.Prasanth	N.Prasanth	N.Prasanth	Pravallika
5	ECE	005/LE/ECE/2019	D.PRAVALLIKA	Pravallika	Pravallika	Pravallika	Pravallika
6	ECE	006/LE/ECE/2019	S.SHANMUKHA SRINIVAS	S.SRINIVAS	S.SRINIVAS	S.SRINIVAS	Pranush
7	ECE	007/LE/ECE/2019	A.DHANUSH	Pranush	Pranush	Pranush	S.Aruna
8	ECE	008/LE/ECE/2019	S.ARUNA	S.Aruna	S.Aruna	S.Aruna	Devi
9	ECE	009/LE/ECE/2019	M.DEVI	Devi	Devi	Devi	Dorababu
10	ECE	010/LE/ECE/2019	K.DORA BABU	Dorababu	Dorababu	Dorababu	
11	ECE	011/LE/ECE/2019	G.BALA GOPINADH	Haneef	Haneef	Haneef	Haneef
12	ECE	012/LE/ECE/2019	MD.HANEEF	Haneef	Haneef	Haneef	
13	ECE	013/LE/ECE/2019	K.ACHYUTH	Shyamkumar	Shyamkumar	Shyamkumar	Shyamkumar
14	ECE	014/LE/ECE/2019	K.SHYAMKUMAR	Shyamkumar	Shyamkumar	Shyamkumar	
15	ECE	015/LE/ECE/2019	K.MCHINIAMULYA	Chandana	Chandana	Chandana	Chandana
16	ECE	016/LE/ECE/2019	M.CHANDANA PRABHA	Chandana	Chandana	Chandana	Chandana
17	ECE	017/LE/ECE/2019	Y.NAGA SANDEEP	Sandeep	Sandeep	Sandeep	Sandeep
18	ECE	018/LE/ECE/2019	R.P.V.S.ADITHYA	R.Aditya	R.Aditya	R.Aditya	R.Aditya
19	ECE	019/LE/ECE/2019	P.VAMSI	Vamsi	Vamsi	Vamsi	Vamsi



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Pedatadepalli, TADEPALLIGUDEM - 534 101, W.G. Dist. (A.P)

Department of Electronics and Communication Engineering

III Semester Class Daily Attendance for LE Students

S.NO	Branch	Roll No	Name of the Student	28/7/19	29/7/19	30/7/19
1	ECE	001/LE/ECE/2019	R.PREMSAGAR	PremSagar PremSagar	PremSagar PremSagar	PremSagar PremSagar
2	ECE	002/LE/ECE/2019	M.GANESH KUMAR			
3	ECE	003/LE/ECE/2019	CH.V.SUBBARAO	Ch. Subbarao Ch. Subbarao	Ch. Subbarao	
4	ECE	004/LE/ECE/2019	N.PRASANTH	N.Prasanth N.Prasanth		
5	ECE	005/LE/ECE/2019	D.PRAVALLIKA	Pravallika Pravallika	Pravallika	Pravallika
6	ECE	006/LE/ECE/2019	S.SHANMUKHA SRINIVAS	Shanmukha Shanmukha	Shanmukha	Shanmukha
7	ECE	007/LE/ECE/2019	A.DHANUSH	Dhanush Dhanush	Dhanush	Dhanush
8	ECE	008/LE/ECE/2019	S.ARUNA	S.Arana S.Arana	S.Arana	S.Arana
9	ECE	009/LE/ECE/2019	M.DEVI	M.Devi M.Devi	M.Devi	M.Devi
10	ECE	010/LE/ECE/2019	K.DORA BABU	K.Dora Babu K.Dora Babu	K.Dora Babu	K.Dora Babu
11	ECE	011/LE/ECE/2019	G.BALA GOPINADH			
12	ECE	012/LE/ECE/2019	MD.HANEEF	Haneef Haneef	Haneef	Haneef
13	ECE	013/LE/ECE/2019	K.ACHYUTH	Achyuth Achyuth	Achyuth	Achyuth
14	ECE	014/LE/ECE/2019	K.SHYAMKUMAR			
15	ECE	015/LE/ECE/2019	K.MOHINIAMULYA	Mohiniamulya Mohiniamulya	Mohiniamulya	Mohiniamulya
16	ECE	016/LE/ECE/2019	M.CHANDANA PRABHA			
17	ECE	017/LE/ECE/2019	Y.NAGA SANDEEP	Sandeep		
18	ECE	018/LE/ECE/2019	R.P.V.S.ADITHYA			
19	ECE	019/LE/ECE/2019	P.VAMSI	P.Vamsi P.Vamsi	P.Vamsi	P.Vamsi



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Department of Electronics and Communication Engineering

III Semester Class Daily Attendance for LE Students

S.NO	Branch	Roll No	Name of the Student	3/17/19	11/2/19	5/2/19	6/2/19
1	ECE	001/LE/ECE/2019	R.PREMSAGAR	Prem	Prem	Prem	Prem
2	ECE	002/LE/ECE/2019	M.GANESH KUMAR	Ganesh	Ganesh	Ganesh	Ganesh
3	ECE	003/LE/ECE/2019	CH.V.SUBBARAO	Subbarao	Subbarao	Subbarao	Subbarao
4	ECE	004/LE/ECE/2019	N.PRASANTH	PRASANTH N PRASANTH			
5	ECE	005/LE/ECE/2019	D.PRAVALLIKA	Pravallika			
6	ECE	006/LE/ECE/2019	S.SHANMUKHA SRINIVAS	S.Srinivas	S.Srinivas	S.Srinivas	S.Srinivas
7	ECE	007/LE/ECE/2019	A.DHANUSH	Dhanush	Dhanush	Dhanush	Dhanush
8	ECE	008/LE/ECE/2019	S.ARUNA	Aruna	Aruna	Aruna	Aruna
9	ECE	009/LE/ECE/2019	M.DEVI	M.Devi	M.Devi	M.Devi	M.Devi
10	ECE	010/LE/ECE/2019	K.DORA BABU	K.Dorababu	K.Dorababu	K.Dorababu	K.Dorababu
11	ECE	011/LE/ECE/2019	G.BALA GOPINADH				
12	ECE	012/LE/ECE/2019	MD.HANEEF	Haneef	Haneef	Haneef	Haneef
13	ECE	013/LE/ECE/2019	K.ACHYUTH	K.Achyuth	K.Achyuth	K.Achyuth	K.Achyuth
14	ECE	014/LE/ECE/2019	K.SHYAMKUMAR	Shyam	Shyam	Shyam	Shyam
15	ECE	015/LE/ECE/2019	K.MOHINIAMULYA	Amulya	Amulya	Amulya	Amulya
16	ECE	016/LE/ECE/2019	M.CHANDANA PRABHA				
17	ECE	017/LE/ECE/2019	Y.NAGA SANDEEP	Sandeep	Sandeep	Sandeep	Sandeep
18	ECE	018/LE/ECE/2019	R.P.V.S.ADITHYA				
19	ECE	019/LE/ECE/2019	P.VAMSI	Vamsi	Vamsi	Vamsi	Vamsi



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 Pedatadepalli, TADEPALLIGUDEM - 534 101, W.G. Dist. (A.P)

Department of Electronics and Communication Engineering

III Semester Class Daily Attendance for LE Students

S.NO	Branch	Roll No	Name of the Student	7/8/19	8/8/19	12/8/19	13/8/19
1	ECE	001/LE/ECE/2019	R. PREMSAGAR	R. Premasagar	R. Premasagar	R. Premasagar	R. Premasagar
2	ECE	002/LE/ECE/2019	M. GANESH KUMAR	M. Ganesh Subbarao	M. Ganesh Subbarao	M. Ganesh Subbarao	M. Ganesh Subbarao
3	ECE	003/LE/ECE/2019	CH.V.SUBBARAO				
4	ECE	004/LE/ECE/2019	N.PRASANTH	N.PRASANTH N.PRASANTH	N.PRASANTH N.PRASANTH	N.PRASANTH N.PRASANTH	N.PRASANTH N.PRASANTH
5	ECE	005/LE/ECE/2019	D.PRAVALLIKA	D. PRAVALLIKA D. PRAVALLIKA	D. PRAVALLIKA D. PRAVALLIKA	D. PRAVALLIKA D. PRAVALLIKA	D. PRAVALLIKA D. PRAVALLIKA
6	ECE	006/LE/ECE/2019	S.SHANMUKHA SRINIVAS	S. SRINIVAS S. SRINIVAS	S. SRINIVAS S. SRINIVAS	S. SRINIVAS S. SRINIVAS	S. SRINIVAS S. SRINIVAS
7	ECE	007/LE/ECE/2019	A.DHANUSH	Dhanush	Dhanush	Dhanush	Dhanush
8	ECE	008/LE/ECE/2019	S.ARUNA	S.Aruna	S.Aruna	S.Aruna	S.Aruna
9	ECE	009/LE/ECE/2019	M.DEVI	M. Devi			
10	ECE	010/LE/ECE/2019	K.DORA BABU	K. Dorababu	K. Dorababu	K. Dorababu	K. Dorababu
11	ECE	011/LE/ECE/2019	G.BALA GOPINADH	G. BALA	G. BALA	G. BALA	G. BALA
12	ECE	012/LE/ECE/2019	MD.HANEEF	MD. HANEEF MD. HANEEF	MD. HANEEF MD. HANEEF	MD. HANEEF MD. HANEEF	MD. HANEEF MD. HANEEF
13	ECE	013/LE/ECE/2019	K.ACHYUTH	K. Achyuth K. Achyuth	K. Achyuth K. Achyuth	K. Achyuth K. Achyuth	K. Achyuth K. Achyuth
14	ECE	014/LE/ECE/2019	K.SHYAMKUMAR	K. shyamkumar			
15	ECE	015/LE/ECE/2019	K.MOHINIAMULYA				
16	ECE	016/LE/ECE/2019	M.CHANDANA PRABHA	M. Chandana	M. Chandana	M. Chandana	M. Chandana
17	ECE	017/LE/ECE/2019	Y.NAGA SANDEEP	Sandeep			
18	ECE	018/LE/ECE/2019	R.P.V.S.ADITHYA	R. Aditya			
19	ECE	019/LE/ECE/2019	P.VAMSI	vamsi	vamsi	vamsi	vamsi

ACADEMIC YEAR 2018-19



SRI VASAVI ENGINEERING COLLEGE

Pedatadepalli, TADEPALLIGUDEM-534 101, W.G. Dist.

Department Of Electronics and Communication Engineering

Time Table for Lateral entry Students

Periods	1	2	3	4	1:00-2:00	5	6	7
Time Day	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00		2:00-2:50	2:50-3:40	3:40-4:30
Mon	EDC	NA	SS	MEFA	Lunch Break	STLD	SS	MEFA
Tue	STLD	RVSP	MATHS	EDC		EDC/ET LAB		
Wed	RVSP	EDC	STLD	MATHS		SS	LIBRARY	
Thu	MEFA	MATHS	RVSP	NA		EDC	NA	MEFA
Fri	MATHS	MEFA	STLD	SS		RVSP	STLD	EDC
Sat	SS	EDC/ET LAB				NA	MATHS	RVSP

Staff Details :-

S.NO	Course	Name of the Course	Name of the Faculty
1	EDC	Electronic Devices and Circuits	Sri M.Satish Kumar
2	SS	Signals and Systems	Sri KNH Srinivas
3	STLD	Switching Theory and Logic Design	Smt TVNL Aswini
4	RVSP	Random Variables and Stochastic Processes	Sri DR Sandeep
5	NA	Network Analysis	Sri MTVL Ravi kumar
6	MEFA	Managerial Economics and Financial Analysis	Sri RV Rajasekhar
7	MATHS	Mathematics	Sri SK Dhana Prasad
8	EDC LAB	Electronic Devices and Circuits Lab	Dr Purnima K Sharma
9	ET LAB	Networks & Electrical Technology Lab	Sri V Rama Narayana

Head of the Department
 Dept. of Electronics & Comm. Engineering
 Sri Vasavi Engineering College
 TADEPALLIGUDEM-534101

Attendance :- Special classes for LE special classes

08818-284577, 284355 Ext: 321; Fax: 08818-284577



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society)
 Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada
 Postgraduate: TADEPALLIGUDEM - 534 501, W.G. Dist. (A.P.)

Regtd. No.	Name of the students	Male / Female	21/07/2018	25/07/2018	26/07/2018	27/07/2018	28/07/2018
001/LE/ECE/2018	GIDDA DHARUVITHA	Female	✓	G. Dhruvika	G. Dhruvika	G. Dhruvika	G. Dhruvika
002/LE/ECE/2018	CHINNI Y N V S G ANIL	Male	✓	Ch Anil	Ch Anil	Ch Anil	Ch Anil
003/LE/ECE/2018	BAYYAVARAPU VENKATA DHANA KISHORE	Male	✓		B. Kishor	B. Kishor	B. Kishor
004/LE/ECE/2018	VENDRA POORNA GANESH SWAMY	Male	✓	V. Ganuwan	V. Ganuwan	V. Ganuwan	V. Ganuwan
005/LE/ECE/2018	KOPPISETTI HARIKRISHNA	Male	✓		K. Harikrishna	K. Harikrishna	K. Harikrishna
006/LE/ECE/2018	DUDDUPUDI HANOK EMANS KUMAR	Male	✓		D. Emans	D. Emans	D. Emans
007/LE/ECE/2018	PUTTA POORNA TEJA	Male	✓	P. Poornima	P. Poornima	P. Poornima	P. Poornima
008/LE/ECE/2018	MUGIDHI RAVI CHANDU	Male	✓	M. Chandu	M. Chandu	M. Chandu	M. Chandu
009/LE/ECE/2018	NAIDU SIRI CHANDANA	Female	✓	N. Sanchi	N. Sanchi	N. Sanchi	N. Sanchi
010/LE/ECE/2018	PASAM SARADA DEVI	Female	✓	P. Sarada	P. Sarada	P. Sarada	P. Sarada
011/LE/ECE/2018	MADDALA VENKATESH	Male	✓	M. Venkatesh	M. Venkatesh	M. Venkatesh	M. Venkatesh
012/LE/ECE/2018	VEERLA NAGA TULASI	Female	✓	V. Tulasi	V. Tulasi	V. Tulasi	V. Tulasi
013/LE/ECE/2018	KONA PRASANNA YOTHI	Female	✓	K. Pragna	K. Pragna	K. Pragna	K. Pragna
014/LE/ECE/2018	KETHA DURGA PRASAD	Male	✓	K. Durga	K. Durga	K. Durga	K. Durga
015/LE/ECE/2018	MADDURI LAKSHMI SURYA SAI SOWJANYA	Female	✓	M. Sowjanya	M. Sowjanya	M. Sowjanya	M. Sowjanya
016/LE/ECE/2018	JALEM SRIVALLI	Female	✓	J. Srivalli	J. Srivalli	J. Srivalli	J. Srivalli
017/LE/ECE/2018	ANNANIDI MOHANA VENKATA DURGA NARAYANA	Male	✓		A. Mohan	A. Mohan	A. Mohan
018/LE/ECE/2018	MATHANGI GAYATHRI	Female	✓	M. Gayathri	M. Gayathri	M. Gayathri	M. Gayathri
019/LE/ECE/2018	YAMALAVALASA SUPRIYA	Female	✓	Y. Supriya	Y. Supriya	Y. Supriya	Y. Supriya
020/LE/ECE/2018	VEERAVALLI REKHASRI	Female	✓	V. Rekha	V. Rekha	V. Rekha	V. Rekha
021/LE/ECE/2018	DANDUBOINA BALA VENKATA NAGA SAI	Male	✓	D. B. N. S.	D. B. N. S.	D. B. N. S.	D. B. N. S.
022/LE/ECE/2018	MEKALA NITEESH DHARMA	Male	✓	M. Niteesh	M. Niteesh	M. Niteesh	M. Niteesh
023/LE/ECE/2018	CHILUKURI B V KRISHNA PRANEETH	Male	✓	Ch. Praneeth	Ch. Praneeth	Ch. Praneeth	Ch. Praneeth
024/LE/ECE/2018	PAMPANA USHA NAGA PRIYANKA	Female	✓	P. Usha	P. Usha	P. Usha	P. Usha
025/LE/ECE/2018	GURUVELLI SRIRAM	Male	✓	G. Sriram	G. Sriram	G. Sriram	G. Sriram

B2-5
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 A
 B2-6
 B2-6
 B
 B2-6
 B2-6

Regtd. No.	Name of the Students	Male/Female	21/07/2018	23/07/2018	24/07/2018	25/07/2018	26/07/2018	27/07/2018	28/07/2018
026/LE/ECE/2018	YADAGANI GANESH	Male	✓	Y.C.H	Y.C.H	Y.C.H	Y.C.H	Y.C.H	Y.C.H
027/LE/ECE/2018	MATTA NAGA VINAYAKA	Male	✓	M.M. Saravajee		M. Vinayaka M. Vinayaka M. Vinayaka			
028/LE/ECE/2018	KOLLEPARA TEERTHA SAI	Male							
029/LE/ECE/2018	SEERINA VENU GOPALASWAMY	Male							
030/LE/ECE/2018	MANNI PRASANTH KUMAR	Male							
031/LE/ECE/2018	GANGOLU RAVITEJA	Male							
032/LE/ECE/2018	PATHULA SAITEJA	Male							
033/LE/ECE/2018	KONALA VIJAYA BHASKAR	Male	✓	K.V. Bhaskar		K.V. Bhaskar V. Bhaskar K.V. Bhaskar			
034/LE/ECE/2018	BANTUPILLI SAIKUMAR	Male	✓						
035/LE/ECE/2018	KOMATI LOKESWAR	Male	✓	K. Lokesh					
036/LE/ECE/2018	DIDDE NAVYA	Female	✓	D. Navya		D. Navya D. Navya D. Navya			
037/LE/ECE/2018	GODE SRAVYA	Female	✓	G. Sravya		G. Sravya G. Sravya G. Sravya G. Sravya			
038/LE/ECE/2018	TALURI PRIYANKA	Female	✓	T. Priyanka		T. Priyanka T. Priyanka T. Priyanka T. Priyanka			
039/LE/ECE/2018	GUNNAM NARENDRA BABU	Male	✓	G. Narendra		G. Narendra G. Narendra G. Narendra			

40. Buddana - Anil Kumar
(23/7/18)

41. B-Sai Kumar 25/7/18

B. Anil B. Anil B. Anil B. Anil
B. Anil B. Anil B. Anil B. Anil

B. Anil B. Anil B. Anil B. Anil
B. Anil B. Anil B. Anil B. Anil

Head of the Department

Elkumal Que.

Head of the Department
Dept. of Electronics & Comm. Engineering
Vasavi Engineering College
TADIPATRITIGAI, INDIA-M-534101

Regd. No.	Name of the Students	Male/Female	28/07/2018	01/08/2018	09/08/2018	05/09/2018	24/08/2018	06/08/2018
026/LE/ECE/2018	YADAGAN GANESH	Male	S.C.H	M. Vinayaka	M. Vinayaka	M. Vinayaka	M. Vinayaka	M. Vinayaka
027/LE/ECE/2018	MATTA NAGA VINAYAKA	Male						
028/LE/ECE/2018	KO'LEPARA ESP'HA SAI	Male						
029/LE/ECE/2018	SEERLA VENJ GOPALASWAN	Male						
030/LE/ECE/2018	MANNE PRASANTH KUMAR	Male						
031/LE/ECE/2018	GANGOLU RAVITJJA	Male						
032/LE/ECE/2018	PATTIJI A. SAI TEJA	Male						
033/LE/ECE/2018	KONALA VIJAYA BHASKAR	Male						
034/LE/ECE/2018	BANTUPILLI SAIKUMAR	Male						
035/LE/ECE/2018	KOMATI LOKESWAR	Female						
036/LE/ECE/2018	DIDDE NAVVA	Female						
037/LE/ECE/2018	GODE SRAVVA	Female						
038/LE/ECE/2018	TALURI PRIYANKA	Female						
039/LE/ECE/2018	GLINNAM NARENDRA BABU	Male						
040/LE/ECE/2018	BUDDANA ANIL KUMAR	Male						
041/LE/ECE/2018	P. Gopi Chand	Male						
042/LE/ECE/2018	TUJJURI TEJA SATYA SURESH	Male						

043/LE/ECE/2018 Mullapudi usha Female
 046/LE/ECE/2018 P.V.V.S.T.M. Pavan Kumar Male
 043/LE/ECE/2018 MANGENIA RAJESH male
 045/LE/ECE/2018 Ch.Anil Kumar Male

Head of the Department
 M.Ushta, M.Ushta, M.Ushta, M.Ushta, M.Ushta
 P.V.V.S.T.M. Pavan Kumar, Pavan Kumar, Pavan Kumar, Pavan Kumar, Pavan Kumar
 M. Rajesh, M. Rajesh, M. Rajesh, M. Rajesh, M. Rajesh
 Ch. Anil, Ch. Anil, Ch. Anil, Ch. Anil, Ch. Anil

Department of the Department
 Board of Electronics & Comm. Engg.
 Dept. of Electronics & Comm. Engg.
 VASAVI ENGINEERING COLLEGE
 VADAPATI GUNTUR M.S.44

SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

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Pedat:depalli, TADEPALLI, GUDDEM - 534 101, W.G. Dist. (A.P.)



Regd. No.	Name of the Students	Male/Female	04/08/2018	05/08/2018	06/08/2018	07/08/2018	08/08/2018	11/08/2018
18A85A0401	GIDDA DHRUVITHA	Female	G. Dhruvitha	G. Dhruvitha	G. Dhruvitha	G. Dhruvitha	G. Dhruvitha	G. Dhruvitha
18A85A0402	CHINNIN V V S G ANIL	Male	Ch Anil	Ch Anil	Ch Anil	Ch Anil	Ch Anil	Ch Anil
18A85A0403	BAYAVARAPU VENKATA DHANA KISHORE	Male	B.K. Reddy	B.K. Reddy	B.K. Reddy	B.K. Reddy	B.K. Reddy	B.K. Reddy
18A85A0404	VENDRA POCRNA GANESH SWAMY	Male	V.P. Ganesh Swamy	V.P. Ganesh Swamy	V.P. Ganesh Swamy	V.P. Ganesh Swamy	V.P. Ganesh Swamy	V.P. Ganesh Swamy
18A85A0405	KOPPISETTI HARIKRISHNA	Male	K.H. Krishna	K.H. Krishna	K.H. Krishna	K.H. Krishna	K.H. Krishna	K.H. Krishna
18A85A0406	DUDDUPUDI HAROK EMANS KUMAR	Male	D. Emans	D. Emans	D. Emans	D. Emans	D. Emans	D. Emans
18A85A0407	PUTTA POORNA TEJA	Male	P. Teja	P. Teja	P. Teja	P. Teja	P. Teja	P. Teja
18A85A0408	MUGIDHI RAVI CHANDU	Male	M. Ravi Chandu	M. Ravi Chandu	M. Ravi Chandu	M. Ravi Chandu	M. Ravi Chandu	M. Ravi Chandu
18A85A0409	NAIDU SIRI CHANDANA	Female	N. Siri Chandana	N. Siri Chandana	N. Siri Chandana	N. Siri Chandana	N. Siri Chandana	N. Siri Chandana
18A85A0410	PASAM SARADA DEVI	Female	P. Saradadevi	P. Saradadevi	P. Saradadevi	P. Saradadevi	P. Saradadevi	P. Saradadevi
18A85A0411	VEERLA NAGA TULASI	Female	V. Tulasi	V. Tulasi	V. Tulasi	V. Tulasi	V. Tulasi	V. Tulasi
18A85A0412	KETHA DURGA PRASAD	Male	K.D. Prasad	K.D. Prasad	K.D. Prasad	K.D. Prasad	K.D. Prasad	K.D. Prasad
18A85A0413	MADDURTI LAKSHMI SURYA SAI SOWJANYA	Female	M. Sowjanya	M. Sowjanya	M. Sowjanya	M. Sowjanya	M. Sowjanya	M. Sowjanya
18A85A0414	JALEM SRIVALLI	Female	J. Srivalli	J. Srivalli	J. Srivalli	J. Srivalli	J. Srivalli	J. Srivalli
18A85A0415	ANNANIDI MOHANA VENKATA DURGA NARAYANA	Male	A. Mohana Narayana	A. Mohana Narayana	A. Mohana Narayana	A. Mohana Narayana	A. Mohana Narayana	A. Mohana Narayana
18A85A0416	MATHANGI GAYATHRI	Female	M. Gayathri	M. Gayathri	M. Gayathri	M. Gayathri	M. Gayathri	M. Gayathri
18A85A0417	VEERAVALLI REKHASRI	Female	V. Rekhasri	V. Rekhasri	V. Rekhasri	V. Rekhasri	V. Rekhasri	V. Rekhasri
18A85A0418	DANDUBOINA BALA VENKATA NAGA SAI	Male	D.B.V.N.S	D.B.V.N.S	D.B.V.N.S	D.B.V.N.S	D.B.V.N.S	D.B.V.N.S
18A85A0419	MEKALA NITEESH DHARMA	Male	M. Niteesh	M. Niteesh	M. Niteesh	M. Niteesh	M. Niteesh	M. Niteesh
18A85A0420	PAMPANA USHA NAGA PRIYANKA	Female	P.U.N. Priyanka	P.U.N. Priyanka	P.U.N. Priyanka	P.U.N. Priyanka	P.U.N. Priyanka	P.U.N. Priyanka
18A85A0421	GURUVELLI SRIRAM	Male	G. Sriram	G. Sriram	G. Sriram	G. Sriram	G. Sriram	G. Sriram
18A85A0422	YADAGANI GANESH	Male	Y. Ganesh	Y. Ganesh	Y. Ganesh	Y. Ganesh	Y. Ganesh	Y. Ganesh
18A85A0423	MATTA NAGA VINAYAKA	Male	M.V. Vinayaka	M.V. Vinayaka	M.V. Vinayaka	M.V. Vinayaka	M.V. Vinayaka	M.V. Vinayaka
18A85A0424	KOLLEPARA TEERTHA SAI	Male	K. Teertha Sai	K. Teertha Sai	K. Teertha Sai	K. Teertha Sai	K. Teertha Sai	K. Teertha Sai
18A85A0425	SEERLA VENU GOPALASWAMY	Male	S. Venu Gopalaswamy	S. Venu Gopalaswamy	S. Venu Gopalaswamy	S. Venu Gopalaswamy	S. Venu Gopalaswamy	S. Venu Gopalaswamy

2-A

2-B

Roll No.	Name	Gender	M.P.P. Prasa	M.P.P. Prasa	M.P.P. Prasa
18A85A0426	MANNE PRASANTH KUMAR	Male	M.P.P. Prasa	M.P.P. Prasa	M.P.P. Prasa
18A85A0427	GANGOLU RAJITEJA	Male	Gobai Teja	Gobai Teja	Gobai Teja
18A85A0428	KONALA VASAVA BHASKAR	Male	K.V. Bhaskar	K.V. Bhaskar	K.V. Bhaskar
18A85A0429	PANTUPILLI SAI KUMAR	Male	B. Sai Kumar	B. Sai Kumar	B. Sai Kumar
18A85A0430	JMATHI L. LESWAR	Male	K. Lokeshwar	K. Lokeshwar	K. Lokeshwar
18A85A0431	DIDPENAVYA	Female	D. Manjya	D. Manjya	D. Manjya
18A85A0432	GODE SRAVYA	Female	G. Sravya	G. Sravya	G. Sravya
18A35A0433	TALURI PRIYANKA	Female	T. Priyanka	T. Priyanka	T. Priyanka
18A85A0434	GUNNAM NARENDRA BABU	Male	G. Narendra	G. Narendra	G. Narendra
18A85A0435	BUDDANA ANIL KUMAR	Male	B. Anil Kumar	B. Anil Kumar	B. Anil Kumar
18A85A0436	PINNIRGINA GOPI CHAND	Male	P. Gopi Chand	P. Gopi Chand	P. Gopi Chand
18A85A0437	JIVURI TEJA SATYA SURENDRA	Male	J.T.S. Surendra	J.T.S. Surendra	J.T.S. Surendra
18A85A0438	MANGENA RAJESH	Male	M. Rajesh	M. Rajesh	M. Rajesh
18A85A0439	MULLAPUDI USHA	Female	M. Usha	M. Usha	M. Usha
18A85A0440	COPPA ANIL KUMAR	Male	Ch. Anil	Ch. Anil	Ch. Anil
18A85A0441	PALLA V. S. MANIKANTA PAVAN KUMAR	Male	P. V. S. Manikanta Pavan Kumar	P. V. S. Manikanta Pavan Kumar	P. V. S. Manikanta Pavan Kumar

Head of the Department

K. Surala

Head of the Department
 Dept. of Electronics & Commn Engineering
 Sri Vasavi Engineering College
 TADIPALLI GUIDI-M-534101



Date: 09.07.2019

Bridge Course for Lateral Entry Students, B.Tech, III SEM

(10/07/2019 to 18/07/2019) Timings: 5:00PM to 7:00PM

Today we had the meeting at 2:00 P.M. with all III Sem Faculty Members and Lateral Entry (LE) students. These Students are from Multiple Disciplines (CSE, Automobile, CIVIL, EEE, ECE, Instrumentation, Metallurgy).

Problem Identified:

- The students are facing the Problem with programming languages only.

Action suppose toTake:

- So, we are planning to conduct the C Programming classes beyond college hours. w.e.f. 10-07-2019 to 18.07.2019.

Faculty Name: Ms.I Lavanya, Asst.Professor, Dept. of CSE.

Venue: R&D Lab

Head of the Department

Vision: To evolve as a centre of academic and research excellence in the area of Computer Science and Engineering.

Mission: To utilize innovative learning methods for academic improvement.

To encourage higher studies and research to meet the futuristic requirements of Computer Science and Engineering.
To inculcate Ethics and Human values for developing students with good character.



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society)

(Approved by AICTE, New Delhi & Permanently affiliated to JNTUK, Kakinada)

(Accredited by NAAC with 'A' Grade, Recognized by UGC under section 2(f) & 12(B))

(NBA Accreditation to B.Tech., EEE, CSE, ME and ECE Branches for 3 Years)

Pedatadepalli, **TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)**

Ref.No : SVEC/ Admn./Circular/ 2022-23/ 36/A

Principal's Office
Date: 19-09-2022

Circular

A meeting with Deans and HODs is arranged at 02.00 p.m., today
i.e. on 19-09-2022.

Agenda :

1. Discussion on conduction of Bridge courses for Lateral entry students
2. Any other item with the permission of the chair.

Venue : Principal's Chamber


PRINCIPAL

Copy to :

1. Deans | HODs
2. Office, Circular File | Sri Ch. Apparao , Director Technical for information
3. Secretary & Correspondent for information
4. President for information

Vision

To be a premier technological institute striving for excellence with global perspective and commitment to the nation.

Mission

- To produce Engineering graduates of professional quality and global perspective through learner-centric education.
- To establish linkages with government, industry and Research laboratories to promote R&D activities and to disseminate innovations.
- To create an eco-system in the institute that leads to holistic development and ability for life-long learning.



Sri Vasavi Engineering College (Autonomous)

(Sponsored by Sri Vasavi Educational Society)

(Approved by AICTE, New Delhi & Permanently affiliated to JNTUK, Kakinada)
(Accredited by NBA & NAAC with 'A' Grade, Recognized by UGC Under Section 2(f) & 12(B))

Pedatadepalli, Tadepalligudem, W.G.Dt, A.P-534101

The meeting was held in the Principal's cabin on 19.09.2022 (Monday) to discuss about the conduct of Bridge course for the Lateral entry students admitted in the Academic year 2022-23.

Key points of discussion:

1. The I/C principal Dr. Ch. Rambabu welcomed the members and invited suggestions from the members of the meeting for the conduct of the bridge course for the lateral entry students.
2. It is proposed in the meeting to group the students into 3 batches. Batch-1 consists of Civil and EEE, Batch -2 consists of ECE, ECT & ME and Batch-3 consists of CSE, CST, AI & AIML.
3. Based on the inputs from the members, the courses identified for the bridge programme are Mathematics, English communication skills, C programming for all the batches and Python programming for the CSE related branches.
4. The Induction programme will be conducted on 21.09.2022 (Wednesday) and the bridge courses will commence from 22.09.22 till 01.10.2022.
5. The schedule of the bridge courses are as follows:

S.No.	Name of the bridge course	Batch	No. of hours allotted
1.	Mathematics	Batch 1 & 2 & 3	01
2.	English communication skills	Batch 1 & 2 & 3	02
3.	C Programming	Batch 1 & 2	03
		Batch 3	02
4.	Python Programming	Batch 3	02
5.	Department Activities	Batch 1 & 2	01

The following members are present in the meeting held on 19.09.2022 (Monday) :

S.No.	Name of the faculty member	Designation	Signature
1.	Dr. Ch. Rambabu	Prof. & Dean (SA)	
2.	Dr. Radha Krishna	Prof. & HoD, CE	
3.	Dr. Sudha Rani	Prof. & HoD, EEE	
4.	Dr. M.V Ramesh	Prof. & HoD, ME	
5.	Dr. Kusuma Kumari	Prof. & HoD, ECE	
6.	Dr. Jaya Kumari	Prof. & HoD, CSE	
7.	Dr. N. Raja Sekhar	Prof. & HoD, BSH	
8.	Dr. T. Sujani	Prof. & HoD, English	
9.	SK.Dhana Prasad	Asst. Prof. HoD, Mathematics	
10.	D.V.N Prabhakar	Asst. Prof. Dept of ME	



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

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(Accredited by NAAC with 'A' Grade, Recognized by UGC under section 2(f) & 12(B))
(NBA Accreditation to B.Tech., EEE, CSE, ME and ECE Branches for 3 Years)
Pedatadepalli, **TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)**

Ref.No : SVEC/ Admn./Circular/ 2022-23/ 39/A

Principal's Office
Date: 20-09-2022

Circular

A meeting with Deans , HODs ,Faculty handling bridge courses and Department Coordinators is arranged at 02.00 p.m., today i.e. on 20-09-2022.

Agenda :

1. Discussion on schedule of Bridge Courses for Lateral Entry students
2. Any other item with the permission of the chair.

Venue : Principal's Chamber


PRINCIPAL

Copy to :

1. Deans | HODs
2. Office, Circular File | Sri Ch. Apparao , Director Technical for information
3. Secretary & Correspondent for information
4. President for information

Vision

To be a premier technological institute striving for excellence with global perspective and commitment to the nation.

Mission

- To produce Engineering graduates of professional quality and global perspective through learner-centric education.
- To establish linkages with government, industry and Research laboratories to promote R&D activities and to disseminate innovations.
- To create an eco-system in the institute that leads to holistic development and ability for life-long learning.



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Pedatadepalli, Tadepalligudem, W.G.Dt, A.P-534101

The meeting was held in the Conference hall of office on 20.09.2022 (Tuesday) to discuss about the schedule of Bridge course for the Lateral entry students admitted in the Academic year 2022-23.

Key points of discussion:

1. The principal Dr. G.V.N.S.R Ratnakara Rao welcomed all the members of the meeting for the inaugural programme scheduled on 21.09.2022 at 10.00AM in Swamy Vivekananda Seminar Hall.
2. It is proposed in the meeting to identify the gaps and prepare the lesson plan for the bridge course with outcomes by discussing with the respective HoD and take approval from them. The lesson plan is mandatory for the core related courses handled by the department.
3. The attendance registers are to be maintained for each batch of students separately on daily basis.
4. The handouts of the courses handling by the faculty should be circulated to the students well in advance through groups.
5. The proper documentation should be maintained with the coordinators of department including photos taken during the programme.
6. The English faculty members are requested to give their requirement of labs.
7. The students should be encouraged to have their own laptops during the programme and further for practice purposes at home.
8. All the information should be passed to the students through whats app groups.

The following members are present in the meeting held on 20.09.2022 (Tuesday) :

S.No.	Name of the faculty member	Designation	Signature
1.	Dr. G.V.N.S.R. Ratnakara Rao	Prof. & Principal	
2.	Dr. Ch. Rambabu	Prof. & Dean (SA)	
3.	Dr. Radha Krishna	Prof. & HoD, CE	
4.	Dr. Sudha Rani	Prof. & HoD, EEE	
5.	Dr. M.V Ramesh	Prof. & HoD, ME	
6.	Dr. Kusuma Kumari	Prof. & HoD, ECE	
7.	Dr. Jaya Kumari	Prof. & HoD, CSE	
8.	Dr. N. Raja Sekhar	Prof. & HoD, BSH	
9.	Dr. T. Sujani	Prof. & HoD, English	
10.	SK.Dhana Prasad	Asst. Prof. & HoD, Mathematics	
11.	D.V.N Prabhakar	Asst. Prof. Dept of ME	
12.	B. Adilakshmi	Asst. Prof. Dept of BS&H	
13.	Dr. NNV.Sakuntala	Asst. Prof. Dept of BS&H	
14.	DNV.Rama Krishna	Asst. Prof. Dept of BS&H	
15.	K. Radha Madhavi	Asst. Prof. Dept of BS&H	
16.	G. Srinivasa Rao	Asst. Prof. Dept of BS&H	
17.	R.L. Phani Kumar	Asst. Prof. Dept of CSE	
18.	Ch.Hemanand	Asst. Prof. Dept of CSE	
19.	K. Lakshmi Narayana	Asst. Prof. Dept of CSE	
20.	M.N.V Surekha	Asst. Prof. Dept of CSE	
21.	P.Uma Sankar	Asst. Prof. Dept of CSE	
22.	M.Raghu Chandra	Asst. Prof. Dept of CSE	
23.	A.Leelavathi	Sr. Asst. Prof. Dept of CSE	
24.	K.Lakshmajji	Asst. Prof. Dept of CSE	
25.	T. Naga Seshu Babu	Asst. Prof. Dept of CE	
26.	N. Sankar	Asst. Prof. Dept of EEE	
27.	J.Rajendra	Asst. Prof. Dept of ECE	

**Details of Faculty members handling bridge course
for the Lateral entry students admitted in the Academic Year 2022-23**

S.No.	Name of the faculty member	Name of the course	Name of the branch	Contact No.
1.	B. Adilakshmi	Mathematics	CE & EEE	9491352289
2.	NNV Sakuntala	Mathematics	ECE, ECT & ME	9849865228
3.	DNV Ramakrishna	Mathematics	CSE, CST, AI & AIML	9441554684
4.	G. Srinivasa Rao	English	CE & EEE	9908568468
5.	K. Radha Madhavi	English	ECE, ECT & ME	9441035960
6.	T. Sujani	English	CSE, CST, AI & AIML	7569858814
7.	R.L. Phani Kumar	C Programming	CE & EEE	9966966752
8.	Ch.Hemanand	C Programming		9885357394
9.	K. Lakshmi Narayana	C Programming	ECE, ECT & ME	8500404489
10.	M.N.V Surekha	C Programming		8074159998
11.	P.Uma Sankar	C Programming	CSE, CST, AI & AIML	9652817394
12.	M.Raghu Chandra	C Programming	CSE, CST, AI & AIML	9052834405
13.	A.Leelavathi	Python Programming	CSE, CST, AI & AIML	9000149667
14.	K.Lakshmajji	Python Programming	CSE, CST, AI & AIML	9494337034
15.	T. Naga Seshu Babu	Department activities	CE	9493485444
16.	N. Sankar	Department activities	EEE	8978618576
17.	D.V.N. Prabhakar	Department activities	ME	7013290220
18.	J.Rajendra	Department activities	ECE	9703597123
19.	G.Sri Ram Ganesh	Department activities	CSE	9491792450

Details of Class Representatives department wise

1.	V. Hemanth		CE	9182863187
2.	Ch. Tarun		EEE	9390786368
3.	B. N. Ravi Varma		ME	9705053545
4.	P. Sita Ram Kumar		ECE	9110524432
5.	D. Ravindra		CSE	8367465961



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Report on Orientation & Class Work Inauguration

(for 2022 admitted B.Tech. Lateral Entry Students)

Brief details about the programme:

21.09.2022 (Wednesday) : The orientation and class work inauguration programme was conducted for the 2022 admitted B.Tech., Lateral Entry students on 21.09.2022 (Wednesday) in Swamy Vivekananda Seminar Hall. Around 170 members including LE students (85 nos.), parents (50 nos.), course handling faculty (20 nos.), Heads of the departments, Principal and management members are present.

Inauguration: (11.00 AM – 11.30 AM)

Two students of CSE department (VII semester) welcomed the audience and invited the guests on to the dias. Inaugural function started with the lighting of Jyothi by the dignitaries on the dias followed by the prayer song. The programme was presided over by Dr. Ch. Rambabu, Dean (SA).

While delivering his opening remarks, **Dr. Ch. Rambabu** congratulated the admitted students for choosing Sri Vasavi Engineering college as their destination for bright future. He informed the students that from tomorrow onwards bridge courses will be conducted for them to make them ready for the engineering education. He stressed upon the need for conducting the bridge courses. In his speech, he explained the grouping of students into 3 batches. Batch-1 comprises of Civil & EEE students, Batch-2 consists of ME, ECE & ECT and Batch-3 comprises of CSE, CST, CIA & AIM. The courses identified are English communication skills, Mathematics, 'C' programming for problem solving that are common for all the batches from the point of view of placements. Python programming course is additional course for Batch-3 students and Department activities are for remaining two batches. The class work will be conducted for 7 hours per day and class work schedule will be circulated through student groups. He said that from his observation, the performance of LE students is good in terms of academics and placements. He informed the parents to update the parent's contact number whenever it is changed and told them to meet the HoD on regular basis to know about the performance of their ward. He informed the parents about the message alert they will get daily for the absenteeism of their ward after the completion of first period.

Principal of the college, **Dr. G.V.N.S.R Ratnakara Rao garu** identified the diploma students from parent institution as well as from outside institutions. He said that the ECEI coaching conducted in house helped the students to get good ranks. He advised the students to not to limit themselves to the books written based on the syllabus but refer standard books in the particular domain. Out of his experience he informed the non CSE students to learn the courses related to CSE

branch ie., coding. He insisted the students to converse in English only in campus. He explained that the python programming is included as bridge course for CSE students to cope up with the advanced python courses in II year of B.Tech., He informed the students that this attendance will be considered along with the regular attendance and aggregate should be more than 75% for fee reimbursement. He introduced the management members, All Heads of the department, faculty handling bridge courses, office incharge, transport incharge, librarian, physical department and hostel warden to the gathering.

President **Sri G. Satyanarayana garu** explained about the importance of maintaining attendance more than 75% for getting fee reimbursement. He mentioned that the performance of LE students is good all these years and expected the same from these students also.

Secretary & Correspondent **Sri Ch. V. V. Subba Rao garu** announced the student strengths admitted through lateral entry in 2022-23. He informed that for the first time the lateral entry students are entered the campus before the commencement of regular class work for III sem students. The students are advised to make use of this opportunity and learn the bridge courses effectively. He promised that if require additional classes will be arranged for the benefit of the students. He informed that as the institution is autonomous, the curriculum was designed to give exposure to CSE courses to non CSE students also. He stressed the necessity of learning computer courses for getting opportunities for all branch students. He mentioned that along with software skills students should learn communication skills for better placement opportunities. The Hostlers will be taken care by conducting revision classes in the evening from 5.30 to 7.00PM daily. He intimated the parents that uniform and id cards will be provided soon and students should attend college wearing uniform and id card, no indiscipline is entertained. The students using transport facility should pay the fee within 2-3 days.

Director (Technical) **Sri Ch. Appa Rao garu**, in his speech informed about the ECAP facility available for the students to monitor the attendance of students in transparent way on daily basis. He advised the parents to spend some time with the students after they reach home. He informed that the institution is running in ragging free environment. He stressed the need for conversation in English only when in campus.

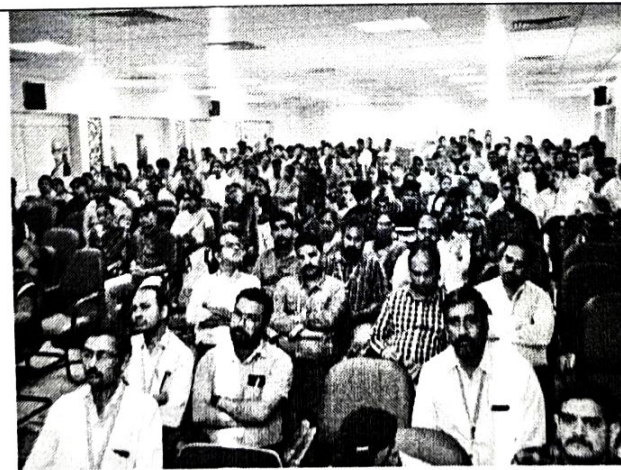
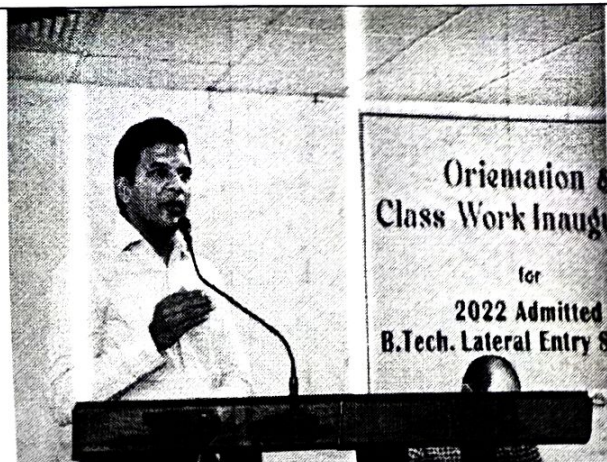
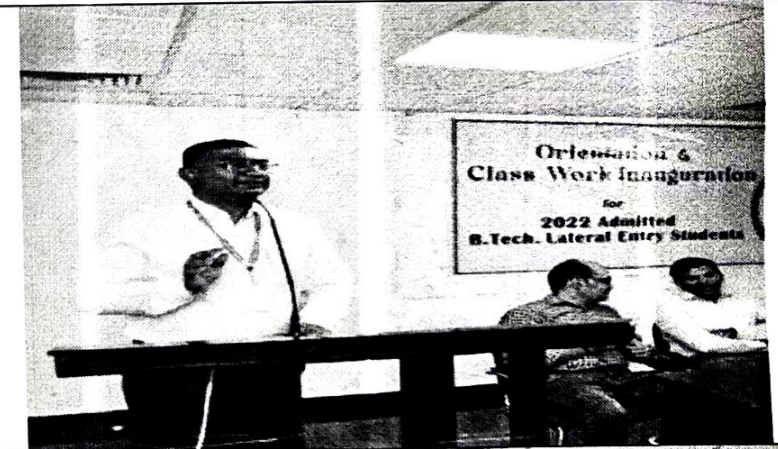
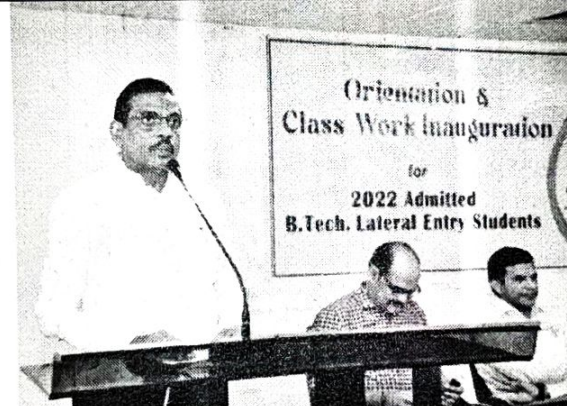
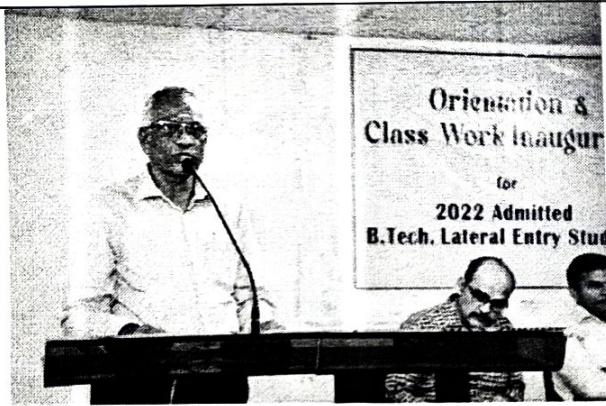
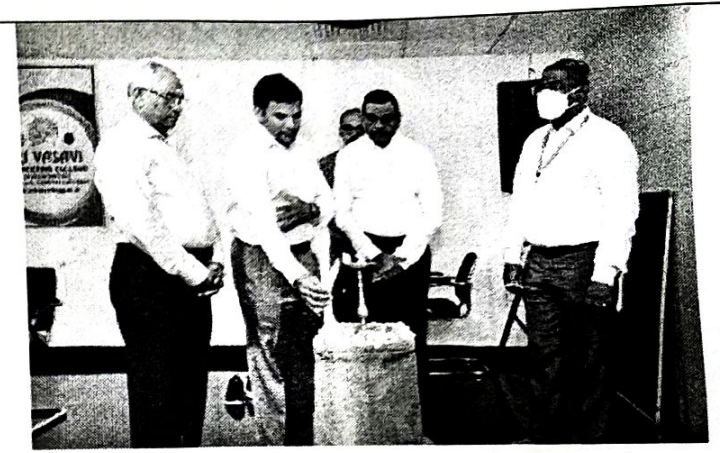
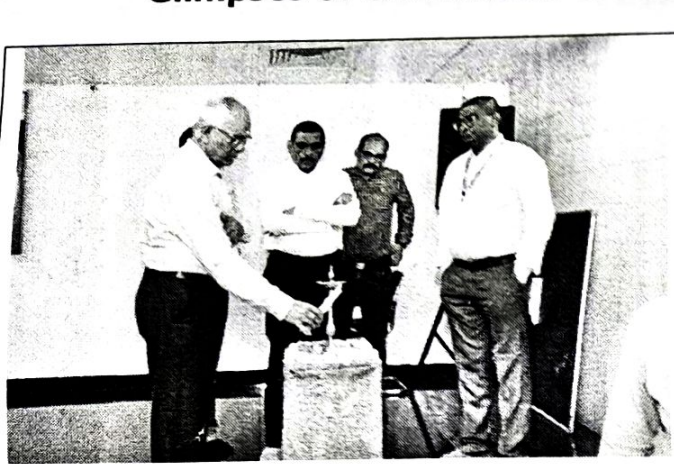
The students and their parents shared their views on institution and raised queries and get them clarified.

The program was concluded with vote of thanks, proposed by the anchoring students. The students and parents were provided special lunch. After the lunch, the students were directed to the respective department for department orientations by the HoDs and senior faculty members.

Sl.No	Roll.No	Student Name	Branch	Entrance Type	Seat Type	
1	001/LE/AIM/2022	KOTA SHANMUKHA VAMSI	AIM	ECET	CONVENOR	<i>S. Anant</i>
2	002/LE/AIM/2022	PINNINTI BHARGAVA SAI	AIM	ECET	CONVENOR	<i>P. Bhargava Sai</i>
3	003/LE/AIM/2022	MADDURI KARTHIKEYA SAI CHANDAN	AIM	ECET	CONVENOR	
4	004/LE/AIM/2022	MADDALI DHANUSH KRISHNA	AIM	ECET	CONVENOR	
5	005/LE/AIM/2022	NIMMALA MANOHAR	AIM	ECET	CONVENOR	
6	006/LE/AIM/2022	PALA VARSHITHA	AIM	ECET	CONVENOR	<i>P. Varshitha</i>
7	001/LE/CAI/2022	GANTA BALA SIVA SANKAR TEJA	CAI	ECET	CONVENOR	<i>G.B.S.S. Teja</i>
8	002/LE/CAI/2022	CHUNDURI RUPESH	CAI	ECET	CONVENOR	<i>Ch. Rupesh</i>
9	003/LE/CAI/2022	KATTA MUDDUKRISHNA	CAI	ECET	CONVENOR	
10	004/LE/CAI/2022	VARA KRANTHI CHAITANYA	CAI	ECET	CONVENOR	<i>Vara kranti chaitanya</i>
11	005/LE/CAI/2022	KROVVIDI RENUKA	CAI	ECET	CONVENOR	
12	006/LE/CAI/2022	GUBBALA SUMANTH	CAI	ECET	CONVENOR	<i>G. Sumanth</i>
13	001/LE/CE/2022	KOPPARTHI NAGA LALITHA RATNAM	CE	ECET	CONVENOR	
14	002/LE/CE/2022	GAMPA HARI SANKAR	CE	ECET	CONVENOR	
15	003/LE/CE/2022	KANTETI KALYAN	CE	ECET	CONVENOR	<i>K. Kalyan</i>
16	004/LE/CE/2022	VARTHANAPALLI HEMANTH SAI RAMESH	CE	ECET	CONVENOR	<i>V. Hemant Sai Ramesh</i>
17	005/LE/CE/2022	GADAMSETTI SURESH	CE	ECET	CONVENOR	<i>G. Suresh</i>
18	006/LE/CE/2022	AMBATPRAMA SURYA NARAYANA	CE	ECET	SPOT	<i>A. Rama Surya Narayana</i>
19	007/LE/CE/2022	YERIBOYINA SHEKAR	CE	ECET	CONVENOR	<i>Y. Shekar</i>
20	008/LE/CE/2022	VISWANADHAM KEERTHI NAGA JYOTHI	CE	ECET	CONVENOR	<i>V. Keerthi Naga Jyothi</i>
21	009/LE/CE/2022	TARALA SRI SUBHASKARI	CE	ECET	CONVENOR	<i>T. Sri Subhaskari</i>
22	010/LE/CE/2022	THAMIRCHI CHANDRA SEKHARA DURGA GANESH	CE	ECET	SPOT	<i>T. Chandra</i>

Sl.No	Roll.No	Student Name	Branch	Entrance Type	Seat Type	
45	002/LE/CST/2022	MANGINA UMAMAHESWARA RAO	CST	ECET	CONVENOR	M. Umamaheswararao
46	003/LE/CST/2022	SHAIK SAJID	CST	ECET	CONVENOR	Sk. Sajid.
47	004/LE/CST/2022	KATTOJU JAHNAVI ANNAPURNESWARI	CST	ECET	CONVENOR	
48	005/LE/CST/2022	PATTIPATI VASU	CST	ECET	CONVENOR	
49	006/LE/CST/2022	KAKARLA SURESH	CST	ECET	CONVENOR	A. Anushka
50	001/LE/ECE/2022	ANGINA ANUSHKA	ECE	ECET	CONVENOR	
51	002/LE/ECE/2022	GARAPATI SHANTHI	ECE	ECET	CONVENOR	G. Shanthi
52	003/LE/ECE/2022	CHALLA SATYA SAI MANI KANTA	ECE	ECET	CONVENOR	Ch. Sai Manikanta
53	004/LE/ECE/2022	SHAIK TASLIM	ECE	ECET	CONVENOR	Sk. Taslim
54	005/LE/ECE/2022	ELIPE S V KARTHIKEYA KIRAN KUMAR	ECE	ECET	CONVENOR	
55	006/LE/ECE/2022	ANNAMREDDY NAGA VENKATA SAI DURGA ANJALI	ECE	ECET	CONVENOR	A.N.V.S.D. Anjali
56	007/LE/ECE/2022	SIVA SAI TEJA	ECE	ECET	CONVENOR	K.S.S. Teja
57	008/LE/ECE/2022	AMBATI ABHILASH	ECE	ECET	CONVENOR	A. Abhila Sh.
58	009/LE/ECE/2022	PEETHALA LOKESH	ECE	ECET	CONVENOR	
59	010/LE/ECE/2022	PODURI SITA RAM KUMAR	ECE	ECET	CONVENOR	P. Sita Ram Kumar
60	011/LE/ECE/2022	NAMANA AJAY SAI MAHESH	ECE	ECET	CONVENOR	N. Ajay Sai Mahesh
61	012/LE/ECE/2022	PALLEM SHADRAK	ECE	ECET	CONVENOR	
62	013/LE/ECE/2022	MATAM PREMA JYOTHI	ECE	ECET	CONVENOR	M. Prema Jyothi
63	014/LE/ECE/2022	VEDALA PRASANNA KUMARI	ECE	ECET	CONVENOR	V. prasanna kumari
64	015/LE/ECE/2022	KOLLI JAYA RAJU	ECE	ECET	CONVENOR	
65	016/LE/ECE/2022	SUGGISETTI PAVANI VENKATA LAKSHMI GAYATHRI	ECE	ECET	CONVENOR	S. Gayathri
66	001/LE/ECT/2022	ISUKAPATI RAVI	ECT	ECET	CONVENOR	

Glimpses of Orientation & Class Work Inauguration for 2022 Admitted B.Tech. LE Students on 21-09-2022





ME



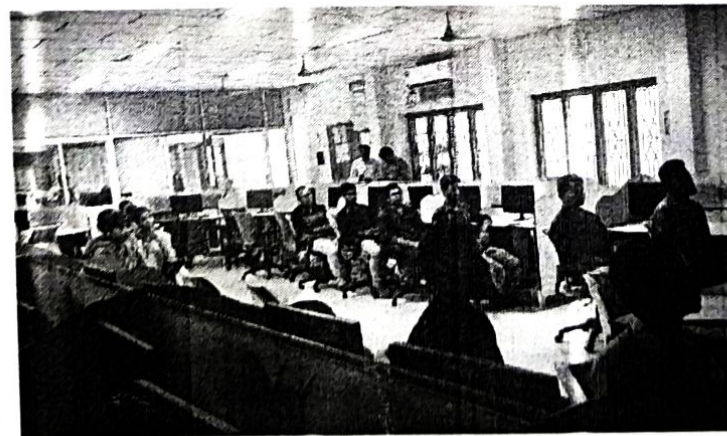
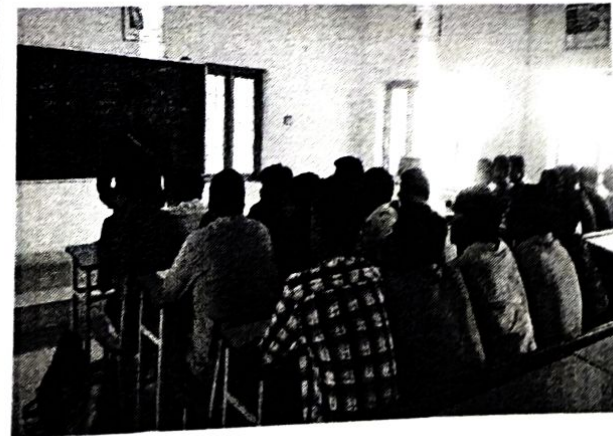
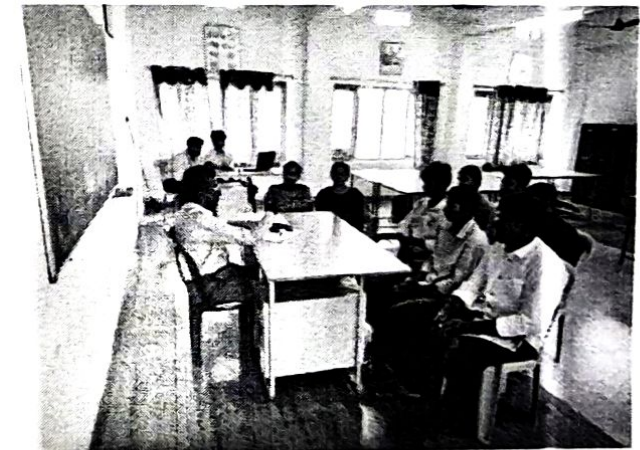
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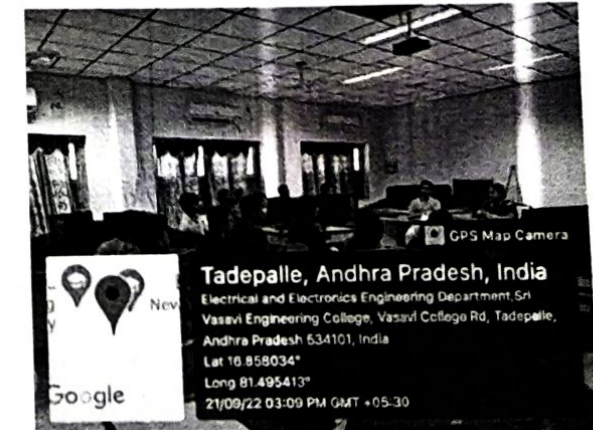
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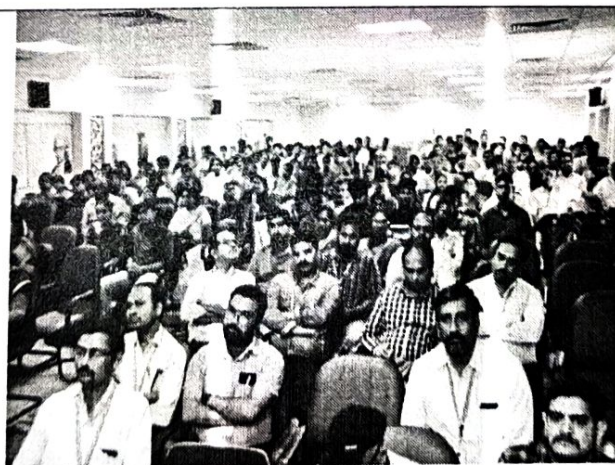
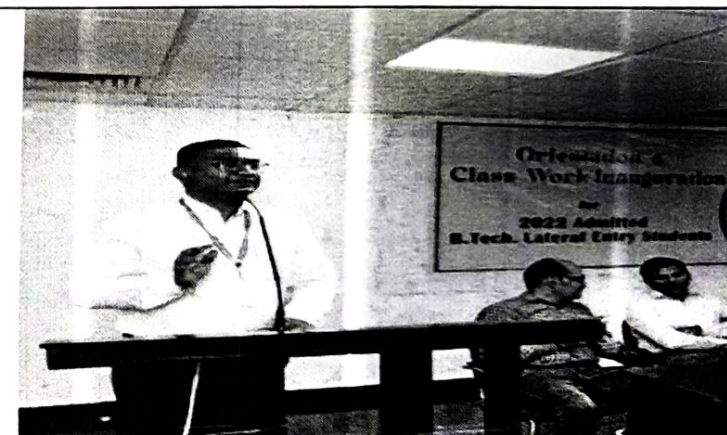
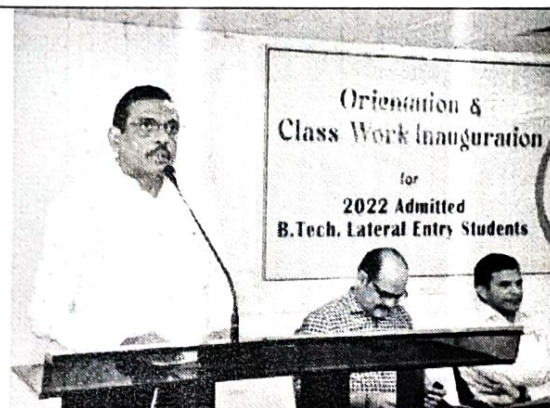
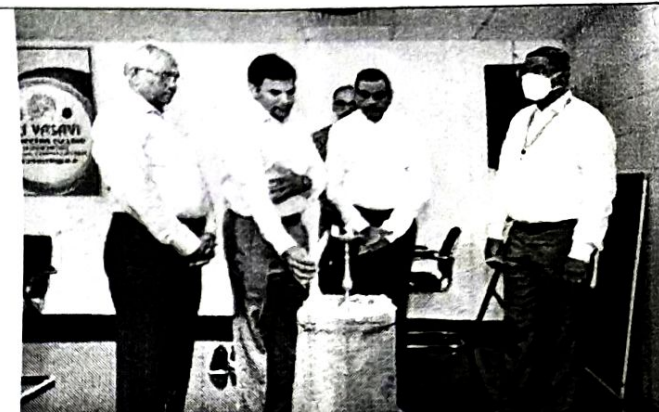


EEE



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45	002/LE/CST/2022	MANGINA UMAMAHESWARA RAO	CST	ECET	CONVENOR	M. Umamaheswar Rao
46	003/LE/CST/2022	SHAIK SAJID	CST	ECET	CONVENOR	Sk. Sajid.
47	004/LE/CST/2022	KATTOJU JAHNAVI ANNAPURNESWARI	CST	ECET	CONVENOR	
48	005/LE/CST/2022	PATTIPATI VASU	CST	ECET	CONVENOR	
49	006/LE/CST/2022	KAKARLA SURESH	CST	ECET	CONVENOR	A. Anushka
50	001/LE/ECE/2022	ANGINA ANUSHKA	ECE	ECET	CONVENOR	
51	002/LE/ECE/2022	GARAPATI SHANTHI	ECE	ECET	CONVENOR	G. Shanthi
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55	006/LE/ECE/2022	ANNAMREDDY NAGA VENKATA SAI DURGA ANJALI	ECE	ECET	CONVENOR	A.N.V.S.D. Anjali
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60	011/LE/ECE/2022	NAMANA AJAY SAI MAHESH	ECE	ECET	CONVENOR	N. Ajay Sai Mahesh
61	012/LE/ECE/2022	PALLEM SHADRACK	ECE	ECET	CONVENOR	
62	013/LE/ECE/2022	MATAM PREMA JYOTHI	ECE	ECET	CONVENOR	M. Prema Jyothi
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Glimpses of Orientation & Class Work Inauguration for 2022 Admitted B.Tech. LE Students on 21-09-2022





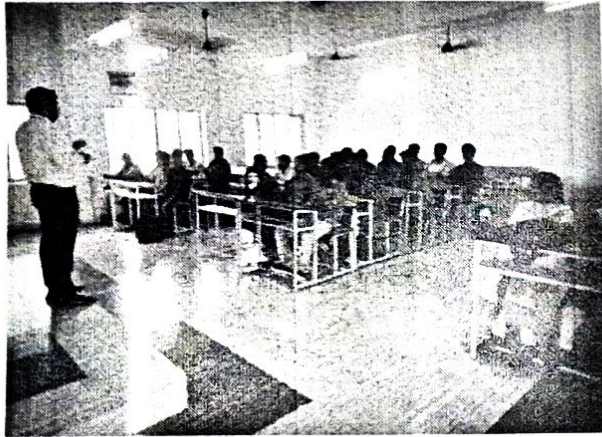
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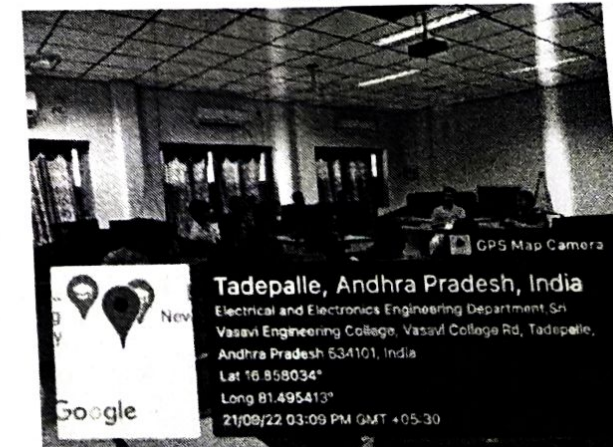
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CE



CSE



EEE



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Pedatadepalli, TADEPALLIGUEDEM-534 101. W.G. Dist. (A.P)

LESSON PLAN

Academic Year : 2021-22 Programme : Bridge Course Lateral Entries

Name of the Course : English Communication Skills

Course Outcomes (Along with Knowledge Level):

CO -1

Collect suitable expressions and vocabulary to participate in JAM. (K1)

CO -2

Identify and produce vowel and consonant sounds. Use pauses and recognize prominent syllables to know word accent (K2)

CO-3

Choose suitable expressions to seek/refuse permissions, make suggestions- agree and disagree with)

CO-4

Debate rationally and cogently while putting forth the ideas. (K4)

CO-5

Examine and interpret the given picture. (K3)

S. No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours required	Pedagogy	Teaching Aids
1	CO1	<u>Unit-I</u> <u>JAM Session</u> Collect suitable expressions to participate in JAM	K1	2	Brainstorming and discussion	White board, Public Address System and Computer terminals with headphones and LCD Projector
2	CO2	Identify and listen to consonant sounds. Listen to consonant sounds, practise and record .	K2	1	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector



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(NBA Accreditation to B.Tech., EEE, CSE, ME and ECE Branches for 3 Years)
Pedatadepalli, **TADEPALLIGUDEM** – 534 101. W.G. Dist. (A.P)

Ref.No : SVEC/ Admn./ Circular/ 2022-23/ 37

Principal's Office
Date: 20-09-2022

Circular

An Orientation Programme for B.Tech Lateral Entry Students (2022-23 Batch) will be held at 10.00 a.m. on 21-09-2022.

All the Deans, HODs, Section Heads and faculty handling bridge courses are requested to join the orientation programme, followed by lunch.

Venue: Swami Vivekananda Seminar Hall


PRINCIPAL

Copy to :

1. Deans | HODs | Section Heads
2. HODs with a request to circulate among their Staff & LE Students (2022-23) Batch
3. I/C Polytechnic Program
4. Exam Section | Library | T&P | Hostels | Office | Circular File
5. Sri Ch. Apparao, Director Technical for information
6. Secretary & Correspondent for information | President for information

Vision

To be a premier technological institute striving for excellence with global perspective and commitment to the nation.

Mission

- To produce Engineering graduates of professional quality and global perspective through learner-centric education.
- To establish linkages with government, industry and Research laboratories to promote R&D activities and to disseminate innovations.
- To create an eco-system in the institute that leads to holistic development and ability for life-long learning.

Semester	II SEM	L	T	P	C	COURSE CODE
Regulation	V20	-	-	3	1.5	V20ECT01
Name of the Course	Switching Theory and Logic Design					
Branches	Common to EEE, ECE, ECT, CSE & CST					

Course Outcomes (CO's) (Along with Knowledge Level (K)):
 After going through this course the student will be able to

CO No.	Course Outcome	Knowledge Level
CO-1	Explain the different types of number Systems, number conversions, codes and logic Gates.	K ₂
CO-2	Apply the concepts of Boolean algebra and use the knowledge of K-maps and tabular method for minimization of Boolean expressions.	K ₃
CO -3	Construct the higher order modules from their lower order structures of various combinational logic circuits.	K ₃
CO-4	Explain the concept of various flip flops	K ₂
CO-5	Develop various sequential circuits like registers, counters and various Finite State Machine Models	K ₃

Unit - I: Number Systems & Codes:

Representation of numbers of different radix, conversion from one radix to another radix, r and $(r-1)$'s compliment of signed members. Basic logic operations -NOT, OR, AND, Universal building blocks, EX-OR, EX-NOR - Gates.

Binary codes: BCD, Excess-3, Gray code, 2421, 84-2-1, error detection, error correction codes -Hamming Code

Unit - II : Minimization Techniques

Boolean theorems, principle of complementation & duality, De-morgan theorems, minimization of logic functions using Boolean theorems, Standard SOP and POS, Forms, NAND-NAND and NOR-NOR realizations, minimization of switching functions using K-Map up to 5 variables, tabular minimization.

Unit - III :Combinational Logic Circuits Design

Half adder, full adder, half subtractor, full subtractor, Ripple Carry adder and subtractor, 4 bit binary adder-subtractor circuit, BCD adder circuit, Excess 3 adder circuit, Design of decoder, demultiplexer, 7 segment decoder, Implementation of higher order circuits using lower order circuits for MUX, DEMUX, DECODER, realization of Boolean functions using decoders and multiplexers, priority encoder.

Unit - IV :Sequential Circuits -I

Classification of sequential circuits (synchronous and asynchronous); basic flip-flops, truth tables and excitation tables (Nand RS latch, nor RS latch, RS flip-flop, JK flip-flop, T flip-flop, D flip-flop with reset and clear terminals). Asynchronous Inputs (Preset and Clear), Race around condition, Master Slave JK Flip flop, Conversion from one flip-flop to another flip-flop.

Unit - V :Sequential Circuits -II

Design of ripple counters, design of synchronous counters, Johnson counter, ring counter. Design of registers - Buffer register, control buffer register, shift register, bi-directional shift register, universal shift register.

Finite State Machine: Introduction to Mealy and Moore Finite state Machines

Text Books

1. Digital Design by M. Morris Mano, Michael D. Ciletti, PEA.
2. Fundamentals of Logic Design, 5/e Roth, Cengage.
3. Modern Digital Electronics by RP Jain, TMH

Reference Books

1. An Engineering Approach to Digital Design, William I. Fletcher, Pearson edition.
2. Switching Theory and Logic Design by A. Anand Kumar
3. Switching & Finite Automata Theory, 2nd Edition, Zvi Kohavi, TMH, 1978



Date: 22/09/2022

Bridge Classes Time Table for LE (CSE, CST,CAI and AIM) Students

DAY/TIME	1	2	3	4	5	6	7
	09:30AM-11:20AM		11:20AM-01:00PM		2:00PM-2:50PM	2:50PM-3:40PM	3:40PM-4:30PM
22/09/2022 (THURSDAY)	C Programming		Python Programming		English		Mathematics
23/09/2022 (FRIDAY)	Python Programming		C Programming		English		Mathematics
24/09/2022 (SATURDAY)	C Programming		Python Programming		Mathematics	English	
26/09/2022 (MONDAY)	Python Programming		C Programming		Mathematics	English	
27/09/2022 (TUESDAY)	C Programming		Python Programming		Mathematics	English	
28/09/2022 (WEDNESDAY)	Python Programming		C Programming		English		Mathematics
29/09/2022 (THURSDAY)	C Programming		Python Programming		English		Mathematics
30/09/2022 (FRIDAY)	Python Programming		C Programming		Mathematics	English	
01/10/2022 (SATURDAY)	C Programming		Python Programming		Mathematics	English	

LUNCH BREAK (01.00-02.00)

FACULTY MEMBERS

Name of the Lab	Name of Faculty Members	Venue / Location
C Programming	Mr. P Uma Sankar / Mr. M Raghu Chandra	E F CODD Lab (CSE - B BLOCK : Ground Floor)
Python Programming	Mrs. A Leelavathi / Mr.K Lakshmajji	English Lab (Diploma Block : First Floor) BSH Block (304)
English	Dr. T Sujani	
Mathematics	Mr. D N V Rama Krishna	

[Signature]
 22/09/2022
 Head of the Department

[Signature]
 Principal

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Venue: Swami Vivekananda Seminar Hall


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Ref. No: SVEC/CSE/2022-23/I Sem/Circular/17

Date: 20/09/2022

CIRCULAR

It is to bring to your kind notice that the following faculty members are allocated for Bridge Course for ECET Students from 22/09/2022 to 01/10/2022 from CSE Department.

Faculty SPOC : Mr. G Sriram Ganesh

S.No.	Branch	Course Name	Faculty Members	Signature
1.	CSE, CST, CAI and AIM	C Programming	Mr. P Uma Sankar	P.uma sankar
			Mr. M Raghu Chandra	M.Raghu chandra
		Python Programming	Mrs. A Leelavathi	
			Mr.K Lakshmaji	
2.	ECE, ECT and MECH	C Programming	Mr. K Lakshmi Narayana	
			Mrs. M N V Surekha	
3.	EEE and CIVIL		Mr. R L Phani Kumar	
			Mr. Ch Hemanandh	


Head of the Department

Vision: To evolve as a centre of academic and research excellence in the area of Computer Science and Engineering.

Mission: To utilize innovative learning methods for academic improvement.
To encourage higher studies and research to meet the futuristic requirements of Computer Science and Engineering.
To inculcate Ethics and Human values for developing students with good character.



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Department of Computer Science & Engineering (Accredited by NBA)

Academic Year : 2022-23

Branch: CSE, CST, AI & AIML

Programme: B. Tech.

Name of the Course: Programming in 'C' for problem Solving

COURSE OUTCOMES:

Course Outcomes (Along with Knowledge Level):

After Completion of the course Students will be able to:

CO Number	Course Outcome	Knowledge Level
CO1	Describe various problem solving strategies such as Algorithms and Flowcharts	K2
CO2	Develop various programming constructs using Control Structures	K3
CO3	Illustrate the process of modular programming approach	K3
CO4	Illustrate the usage of String handling functions and pointers	K3
CO5	Construct Programs using Structures , Union and Files	K3

TEXT BOOKS:

1. Computer Programming: Ashok N Kamthane, Pearson Education
2. C: The Complete Reference: Herbert Schildt, Osborne/Mcgraw Hill, Inc.
3. Let Us C, Yashavant Kanetkar, BPB Publications, 15th Edition

REFERENCE BOOKS:

1. Programming with C, Second edition, Byron S Gottfried, Tata McGrawhill
2. Programming in C, Reema Thareja, Oxford.
3. Problem Solving and Programm design in C, Hanly J R & Koffman E.B, Pearson Education, 2009.
4. Foundations of Computer Science (C Edition) , Alfred V. Aho.
5. Programming and Problem Solving Using C, ISRD Group, Tata McGraw Hill, 2008.
6. Programming in C, Pradip Dey, Manas Ghosh, Oxford University Press, 2007.
7. Problem Solving Using C: Structured Programming Techniques, Yuksel Uckan.
8. C Programming, A Problem Solving Approach, Forouzan, Gilberg, Prasad, CENGAGE.
9. Computer Programming in C – Kerninghan & Ritchie, PHI



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LESSON PLAN

Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
22-09-22	CO1	Discuss about Algorithm and Flowchart for problem solving	K2	2	Lecture	ICT
		Differentiate Compiler, Assembler and Linker	K2		Lecture	
		Explain the Structure of C program, Compilation and Execution	K2		Lecture	
		Discuss Identifiers, Variables	K2		Lecture	
		Explain different Data types	K2		Lecture	
Assignment - 1						

Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
23-09-22	CO2	Explain Arithmetic and Relational Operators	K2	2	Lecture	ICT with Hands on
		Explain Increment and Decrement operators	K2		Lecture	
		Explain Conditional operator, Assignment operator	K2		Lecture	
		Illustrate Precedence, Associativity, Type Conversion	K3		Lecture	
		Demonstrate different Input and output functions	K3		Lecture	
24-09-22	CO2	Explain Conditional statements – Types of if statements	K2	2	Lecture	ICT with Hands on
		Explain Switch-case constructs	K2		Lecture	
		Illustrate various Loops-While loop & do-while and for loop	K3		Lecture	
Assignment – 2						

S. No.	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	26-09-22	CO3	Illustrate functions, different Parameter Passing Techniques	K3	2	Lecture	ICT with Hands on
2			Illustrate examples for passing arrays as parameters to functions	K3		Lecture	
3			Explain Recursion with examples	K2		Lecture	
5	27-09-22	CO3	Describe types of Storage Classes	K2	2	Lecture	ICT with Hands on
6			Explain how to define, initialize and access the pointer variable	K2		Lecture+	
			Discuss Pointer Arithmetic, Pointer to Array	K2		Discussions	
Assignment -3							

S. No.	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	28-09-22	CO4	Explain 1-D Arrays	K2	2	Lecture	ICT with Hands on
2			Explain 2-D Arrays and Multi-Dimensional Arrays	K2		Lecture	



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		Demonstrate String handling functions	K3		Lecture
29-09-22	CO4	Illustrate DMA – malloc(), calloc() and free()	K3	2	Lecture
Assignment – 4					

S. No.	Date	CO	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours	Pedagogy	Teaching aids
1	30-09-22	CO5	Illustrate declaration, Initialization and accessing structures	K3	2	Lecture	ICT with Hands on
2			Illustrate self-referential structures	K3		Lecture	
3			Illustrate declaration, Initialization and accessing Union	K3		Lecture	
4			Differentiate structure and union	K3		Lecture	
5	01-09-22	CO5	Develop programs on Declaring, Opening, and Closing , Reading from and Writing to Text Files	K3	2	Lecture	ICT with Hands on
6			Illustrate Random File Access	K3		Lecture	
7			Describe Command line arguments	K2		Lecture	
Assignment 5							

Total No. of Classes: 18



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ASSIGNMENT-I

1. Construct algorithm and flow chart for biggest of three numbers.
2. Illustrate different datatypes in C with size and range of values.

ASSIGNMENT-II

1. Develop a program, where you will be given 3 integers as input. The inputs may or may not be different from each other. You have to output 1 if all three inputs are different from each other, and 0 if any input is repeated more than once.
2. Develop a program to reverse a given number

ASSIGNMENT-III

1. Construct a Recursive function to find factorial of given number.
2. Develop a program, to sum given array of integer elements using a pointer to that array

ASSIGNMENT-IV


1. Develop a program to search given element in the Array.
2. Develop a program using malloc() and free().

ASSIGNMENT-V

1. Develop a program to access the members of a structure
2. Develop a program to create a File and Display the contents of a file.

1. P. Uma Sankar

2. M. Rishu chandra
Signature of Faculty


Signature of HOD



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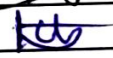
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			Mr. M Raghu Chandra	
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2.	ECE, ECT and MECH	C Programming	Mr. K Lakshmi Narayana	
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Head of the Department

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LESSON PLAN FOR BRIDGE COURSE

Academic Year: 2022-23 Programme: B.Tech

Year/ Semester: II

Branch : CSE, CST, AI and AIML

Name of the Course: Python Programming

Course Code: V20CST02

COURSE OUTCOMES:

Course Outcomes (Along with Knowledge Level):

After Completion of the course Students will be able to:

S.No.	CO No.	Course Outcome	BTL
1.	CO1	Illustrate the basic concepts of python programming	K2
2.	CO2	Describe the control structures of python.	K3
3.	CO3	Demonstrate functions and packages.	K3
4.	CO4	Construct python programs using structured data types	K3
5.	CO5	Implement Files and OOPs Concepts.	K3

Text Books:

1. "Python Programming using problem solving Approach" Reema Thareja, Oxford University Press – 2017.
2. Python with Machine Learning by A.Krishna Mohan, Karunakar & T.Murali Mohan by S. Chand Publisher-2018.

Reference Books:

1. Allen B. Downey, "Think Python: How to Think Like a Computer Scientist", 2nd edition, Updated for Python 3, Shroff / O'Reilly Publishers, 2016 .
2. Guido van Rossum and Fred L. Drake Jr, An Introduction to Python – Revised and updated for Python 3.2, Network Theory Ltd., 2011.
3. John V Guttag, "Introduction to Computation and Programming Using Python", Revised and expanded Edition, MIT Press , 2013
4. Robert Sedgewick, Kevin Wayne, Robert Dondero, "Introduction to Programming in Python:



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No	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours Required	Pedagogy	Teaching aids
1.	C01	Explain History of Python, Features of python Python installation and execution Running Python Scripts Data types Variables, Assignment, Keywords, Input-Output, Indentation. Explain type conversions Literal constants, Numbers, Strings Explain Operators and expressions, operator precedence and expression evaluation	K2	4	PPT	ICT

ASSIGNMENT I



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2.	C02	Discuss with decision control statements if alternative if-else Discuss chained conditional (if-elif-else): Discuss with Control Structures: While loop Explain for loop Explain nested for loop Discuss with range function Discuss with break Discuss with continue Discuss with pass statements	K2	4	PPT	ICT with Hands-on
ASSIGNMENT II						

3	C03	Defining Lists Discuss List operations Discuss List slices Explain List methods Demonstrate cloning lists Discuss list parameters Discuss with Tuples Explain tuple assignment and tuple as return value Discuss with set creation and set operations Explain Dictionaries creation and operations Create comprehension, operations on strings	K3	4	PPT	ICT with Hands-on
ASSIGNMENT III						



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4	C04	Explain Functions Discuss with Function declaration and Definition Explain Function Call Discuss with variable Scope and Lifetime return statement lambda functions Anonymous functions Documentation strings with Modules with Packages Practice Exercises	K3	2	PPT	ICT with Hands-on
ASSIGNMENT IV						
5	C05	Define File, Types File handling reading and writing Discuss Error and Exceptions Exception Handling except block, Raising Exceptions OOps concepts Classes, Methods Constructors inheritance Overriding methods Data hiding GUI programming with Tkinter	K3	4	PPT	ICT with Hands-on
ASSIGNMENT V						

Total Number of Hours=18



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ASSIGNMENT I:

Develop a python program to find area of circle?

Develop a python program to implement arithmetic operations?

Develop a python program to find distance between two points (Pythagorean Theorem)?

ASSIGNMENT II:

Develop a python program to find given Prime or not?

Develop a python program to find palindrome number for a given number using reverse and sum methods?

Develop a python program to apply conditional statemnts?

Develop a python program to print pyramid of *

Develop a python program to print Fibonacci series

ASSIGNMENT III:

Develop a python program to perform the following operations on lists
a) Minimum b) maximum c) sorting d) total e) average f) remove duplicates

Develop a python program to explore methods in sets.

Develop a python program to explore methods in tuples.

Develop a python program to explore methods in Dictionaries.

ASSIGNMENT IV:

Develop a python program to implement modules?

Develop a python program to find GCD, LCM of two numbers using functions?

Develop a python program to find factorial of given number using recursive functions?

Develop a python program to print Fibonacci series using function and recursions?



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ASSIGNMENT V:

Develop a python program to find frequency of characters in a given file?

Develop a python program to copy contents from one file to another file?

Develop a python program to count number of characters, words and lines in a file?

Develop a python program to implement multi-level inheritance?

Develop a python program to implement Exception Handling?

Develop a python program to implement TKinter?

Signature of Faculty

Signature of HOD

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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)**LESSON PLAN**

Academic Year : 2021-22 Programme : Bridge Course Lateral Entries

Name of the Course : English Communication Skills

Course Outcomes (Along with Knowledge Level):**CO -1**

Collect suitable expressions and vocabulary to participate in JAM. (K1)

CO -2

Identify and produce vowel and consonant sounds. Use pauses and recognize prominent syllables to know word accent (K2)

CO-3

Choose suitable expressions to seek/refuse permissions, make suggestions- agree and disagree with)

CO-4

Debate rationally and cogently while putting forth the ideas. (K4)

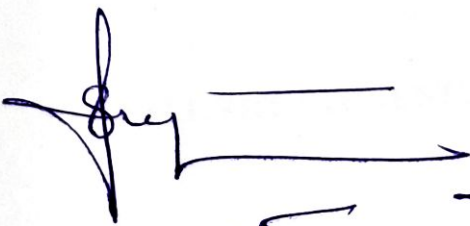
CO-5

Examine and interpret the given picture. (K3)

S.No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours required	Pedagogy	Teaching Aids
	CO1	Unit-I JAM Session Collect suitable expressions to participate in JAM	K1	2	Brainstorming and discussion	White board, Public Address System and Computer terminals with headphones and LCD Projector
2	CO2	Identify and listen to consonant sounds. Listen to consonant sounds, practise and record .	K2	1	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
3	CO2	Identify vowels- monophthongs, diphthongs.	K2	1	Lecture, activities and discussion.	White board, Public Address System

	Listen to consonant sounds, practise and record.				and Computer terminals with headphones and LCD Projector
CO2	practise writing transcription	K3	2	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
CO3	Choose suitable expressions to seek permission, grant/refuse permission Listen to tracks and practise exercises at systems and in manual.	K3	3	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
CO3	Find apt expressions to make suggestions, agree/disagree with a suggestion, express opinions. Listen to tracks and practise exercises at systems and in manual.	K3	3	Lecture, activities and discussion.	White board, Public Address System and Computer terminals with headphones and LCD Projector
CO4	Illustrate ideas and interpret topics to argue in debates effectively.	K4	2	Brainstorming, showing videos, oral practice and analysis	White board, Public Address System and Computer terminals with headphones and LCD Projector
CO5	Interpret the given picture and give caption and explain	K3	2	Brainstorming, showing videos, oral practice and analysis	Public Address System & LCD Projector
CO3	Develop ideas and topics to exhibit articulator skills and participate in group discussions.	K3	3	Brainstorming, showing videos, oral practice and analysis	White board, Public Address System and Computer terminals with headphones and LCD Projector

Signature of Faculty


 (Dr. Jayant)
 Head English Section
 21/9/22



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

BRIDGE COURSE SYLLABUS FOR CSE, CST, CAL AIM

CO1: System of linear equations:	1 hour
Rank – Echelon form-Solution of linear systems – Scientific calculator Usage.	
CO2: Differential equations of first order, first degree and second and higher order:	3 hours
Linear – Exact – Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$	
Applications of Ordinary Differential Equations:	
Newton's Law of cooling – Law of natural growth and decay	2 hours
CO3: Probability:	2 hours
Random experiment – sample space – simple event, definitions and problems – Addition theorem- conditional probability – Baye's Theorem	
CO4: Statistics:	2 hours
Measures of Central Tendency: Mean, Median, Mode	
CO5: Fourier series for the periodic signals:	1 hour
Definitions – even and odd functions – Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.	

Text Books:

1. B.S.Grewal, Higher Engineering Mathematics, 43rd Edition, Khanna Publishers.
2. N.P.Bali, Engineering Mathematics, Lakshmi Publications.
3. B. V. Raman, Tata Mc Graw Hill, A text Book of Engineering Mathematics.

Reference Books:

1. Erwin Kreyszig, Wiley India Pvt. Ltd, Advanced Engineering Mathematics.
2. Churchill, Complex Variables and applications.

*** NOTE: ALL THE STUDENTS MUST CARRY SCIENTIFIC CALCULATOR FROM DAY-1***



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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

LESSON PLAN

Academic Year
Name of the Course
Programme
Semester
Branch

: 2022-23
: Bridge Course for Lateral Entry Students
: B. Tech
: III
: CSE, CST, CAI, AIM

Course Outcomes (Along with Knowledge Level):

Sl.NO	CO No.	Course Outcome	BTL
1	C01	Apply matrix technique to solve linear system of equations	K3
2	C02	Solve ODE of first order, first degree and second and higher order and Applications	K3
3	C03	Outline about probability	K1
4	C04	Find measures of central tendency	K2
5	C05	Find the Fourier series for the periodic signals	K3

Text Books:

1. B.S.Grewal, Higher Engineering Mathematics, 43rd Edition, Khanna Publishers.
2. N.P.Bali, Engineering Mathematics, Lakshmi Publications.
3. B. V. Raman, Tata Mc Graw Hill, A text Book of Engineering Mathematics.

Reference Books:

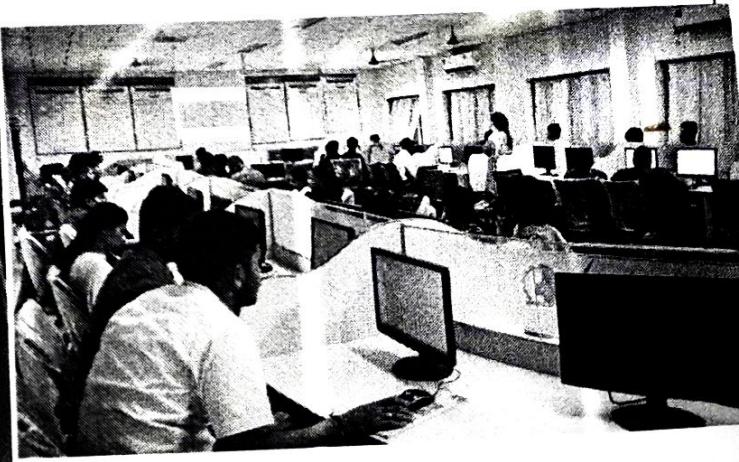
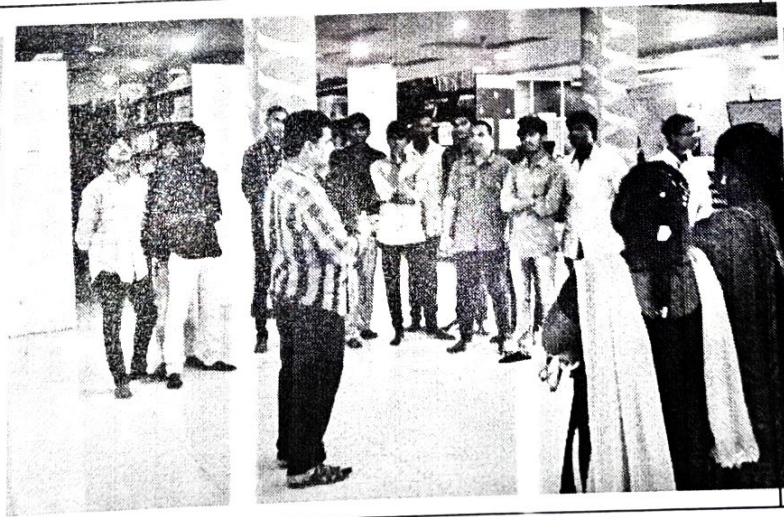
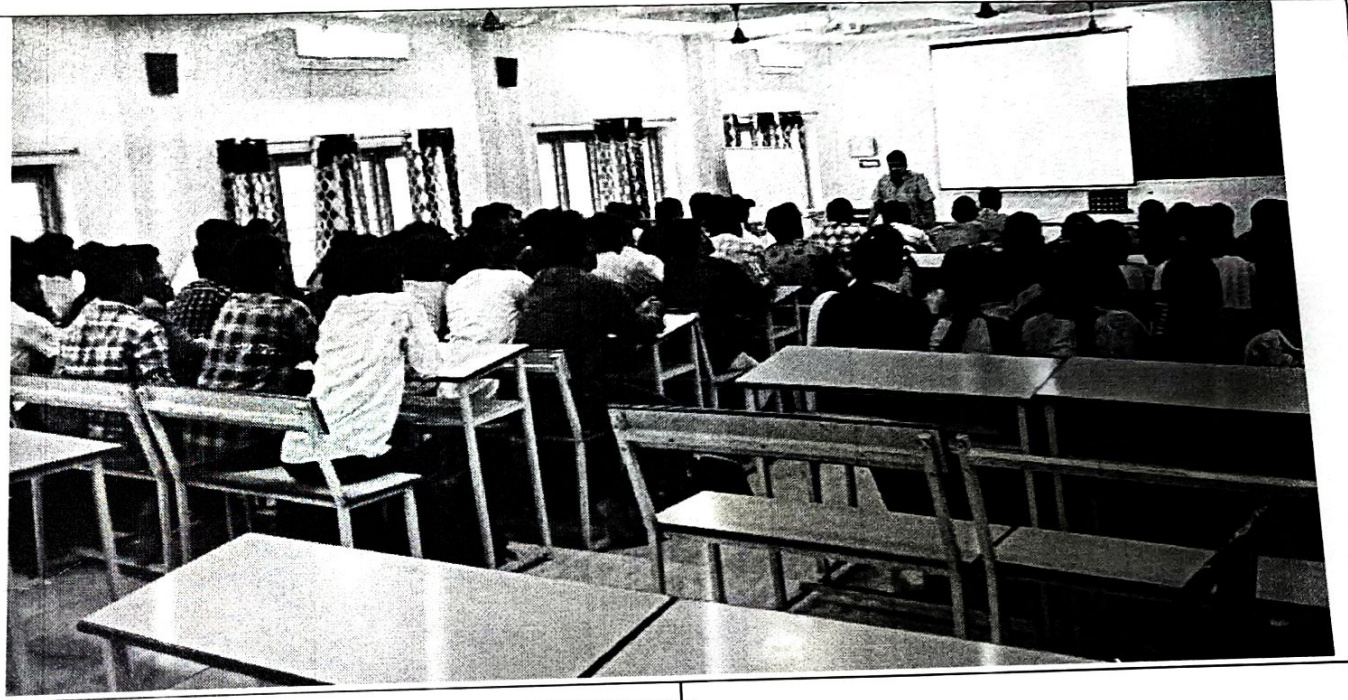
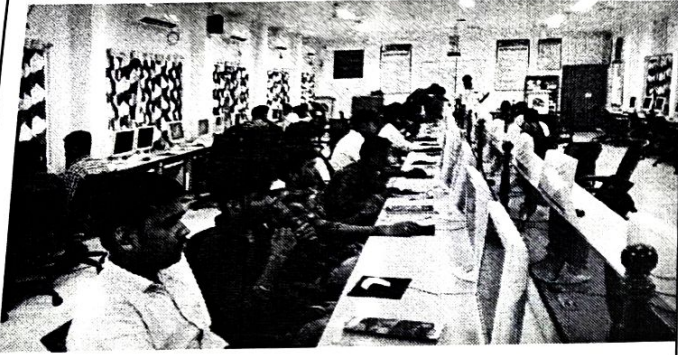
1. Erwin Kreyszig, Wiley India Pvt. Ltd, Advanced Engineering Mathematics.
2. Churchill, Complex Variables and applications.

Lecture Plan:

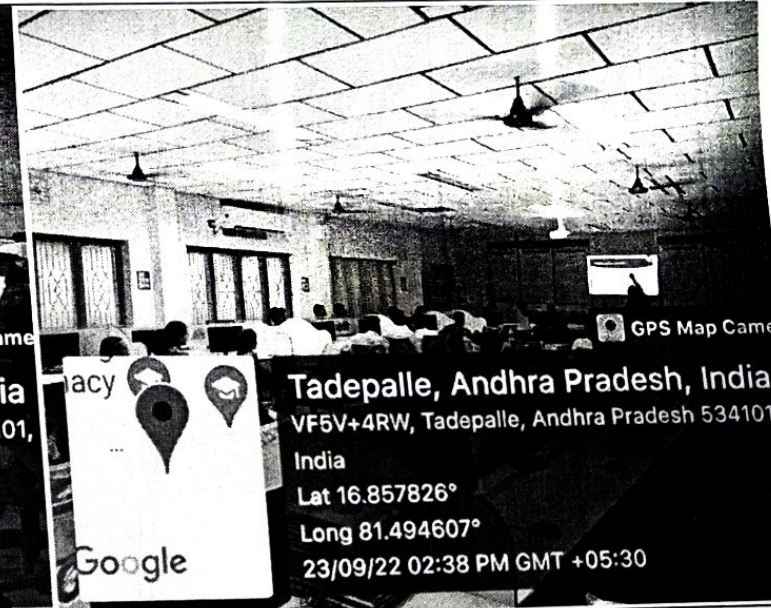
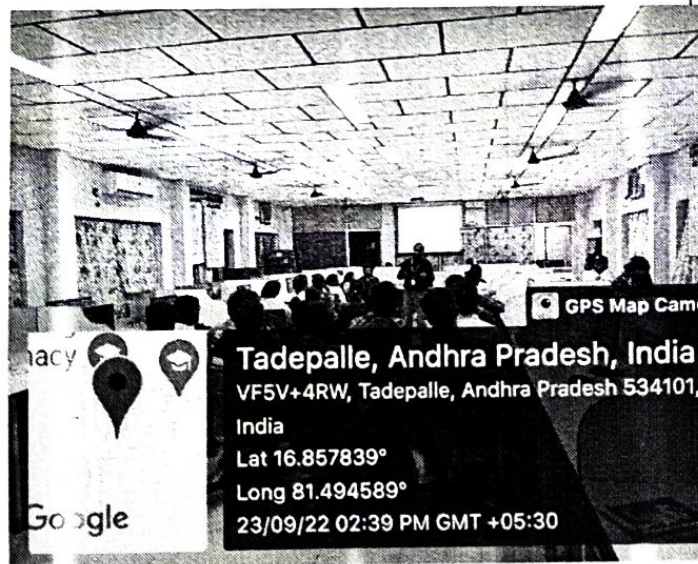
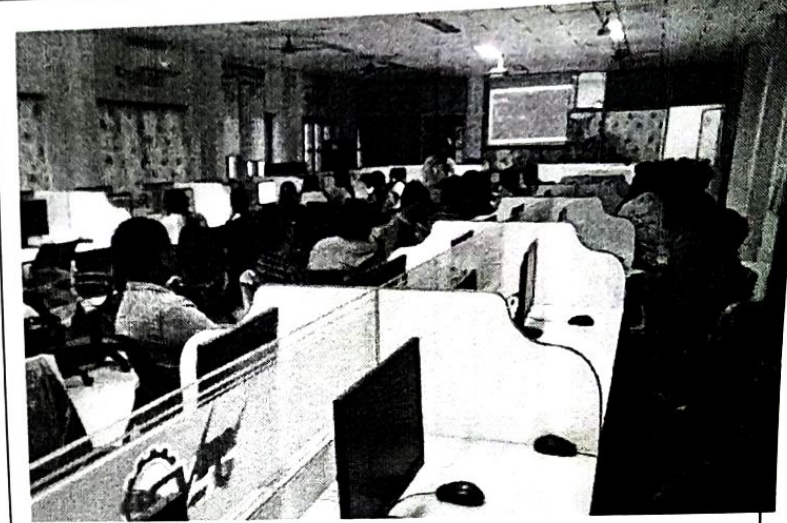
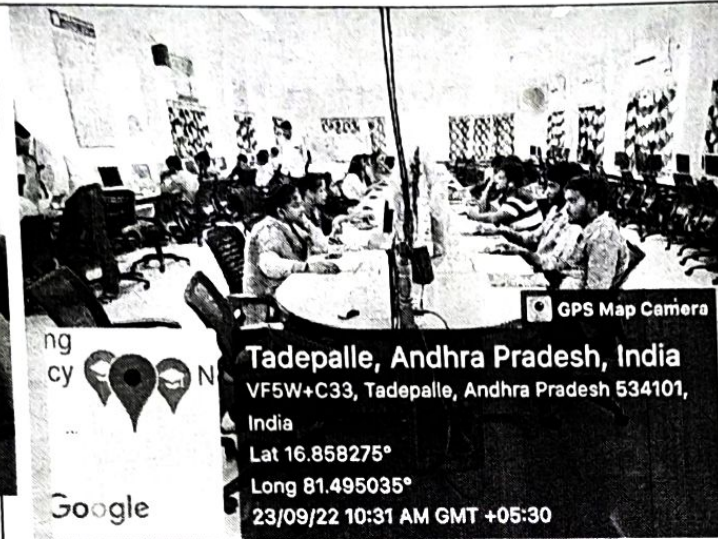
No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours required	Pedagogy	Teaching Aids
		CO1: System of linear equations	K3	1		
1	CO1	Define matrix, types of matrices, Elementary row and column operations, Explain Echelon form, System of equations and consistency	K2	1	Lecture Method	Black Board
		CO2: Differential equations of first order, first degree and second and higher order	K3	3		
2	CO2	Definition of differential equation, order, degree, solve the linear ODE, Explain exact differential equations	K2	1	Lecture Method	Black Board
	CO2	Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$	K3	1	Lecture Method	Black Board
4	CO2	Newton's Law of cooling – Law of natural growth and decay	K3	1	Lecture Method	Black Board
		CO3: Probability	K1	2		
	CO3	Random experiment – sample space – simple event, definitions and problems- Addition theorem	K1	1	Lecture Method	Black Board
	CO3	conditional probability – Baye's Theorem	K1	1	Lecture Method	Black Board
		CO4: Measures of central tendency	K3	2		
	CO4	Measures of Central Tendency: Mean, Median (Grouped and ungrouped Data)	K3	1	Lecture Method	Black Board
	CO4	Measures of Central Tendency: Mode (Grouped and ungrouped Data)	K3	1	Lecture Method	Black Board
		CO5: Fourier series for the periodic signals	K3	1		
	CO5	Definitions – even, odd and periodic functions – Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.	K3	1	Lecture Method	Black Board

Handwritten signature and date:
 (H01/BSEN) 22/09/2022

Glimpses of Bridge Courses for B.Tech. LE Students



Glimpses of Bridge Courses for B.Tech. LE Students



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Google

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Pedatadepalli, **TADEPALLIGUDEM – 534 101**. W.G.Dist. **(A.P)**

Bridge Course syllabus for Mathematics

Academic Year: 2021-22

Programme: B.Tech

Year/ Semester: I & II

Branch: Common to all

S.No	Content	No of hours required
Topic-1	Linear algebra -define matrices, types of matrices, arithmetic operations of matrices, determinant of matrices, introduction to system of equations	4 hrs
Topic-2	Algebraic equations - solutions of 2nd and higher order polynomials. Partial fractions.	3 hrs
Topic-3	Trigonometry - basic concept, compound angles, compound angles, Introductions to complex numbers.	2 hrs
Topic-4	Differentiation - recall of basic formulas, problems on differentiation, chain rule, introduction to partial differentiation.	3 hrs
Topic-5	Integration - recall of formulas, find the integration of basic functions. Definite integral problems, Integration by parts	4 hrs



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Pedatadepalli, TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)

Department of Basic Science and Humanities

LESSON PLAN FOR BRIDGE COURSE

Academic Year: 2021-22

Programme: B.Tech

Year/ Semester: I & II

Branch: Common to all

Name of the Course: Bridge course for Engineering Mathematics (LADE, NMVC)

Course Code: V20MAT01, V20MAT02

COURSE OUTCOMES:

Course Outcomes (Along with Knowledge Level): After

Completion of the course Students will be able to:

CO Number	Course Outcome	Knowledge Level
CO1	Explain various types of matrices Determinant, system of equations and properties	K2
CO2	solve the second and higher order polynomials and resolve partial fractions and solve	K2
CO3	Solve problems using the concept of trigonometric functions, and explain complex numbers.	K2
CO4	Discuss derivatives of various functions.	K2
CO5	Discuss integration of various functions.	K2

Text Books:

1. Higher Engineering Mathematics, B.S. Grewal, 43rd Edition, Khanna Publishers
2. Telugu Academy Mathematics text books of Intermediate, Board of Intermediate Education.

Reference Books:

1. Shanti Narayan, A Textbook of matrices, S.Chand &Co.
2. Robert E. Moyer & Frank Ayers Jr., Schaum's Outline of Trigonometry, 4th Edition, Schaum's Series
3. M.Vygodsky, Mathematical Handbook, Mir Publishers, Moscow.
4. Frank Ayers & Elliott Mendelson, Schaum's Outline of Calculus, Schaum's Series

S.No	Course outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours Required	Pedagogy	Teaching aids
1	CO1	Define matrices, types of matrices with examples	K1	1	Lecture method	PPT
2		Discuss arithmetic operations of matrices,	K2	1	Lecture method	PPT
3		Explain determinant of matrices and properties with examples	K2	1	Lecture method	PPT
4		introduction to system of equations	K1	1	Lecture method	PPT
5	CO2	Define Algebraic equations of 2 nd and higher order polynomials,	K1	1	Lecture method	PPT
6		solve the 2 nd and higher order equations	K2	1	Lecture method	PPT
7		Explain partial fractions with examples	K2	1	Lecture method	PPT
8	CO3	Introduction to Trigonometry basic concept, compound angles, compound angles,	K1	1	Lecture method	PPT
9		Discuss complex numbers with examples	K2	1	Lecture method	PPT
10	CO4	Recall of basic formulas of differentiation, and methods of differentiation	K1	1	Lecture method	PPT
11		Explain the differentiation of various functions	K2	1	Lecture method	PPT
12		introduction to partial differentiation with examples	K1	1	Lecture method	PPT
13	CO5	recall of formulas of integration and definition	K1	1	Lecture method	PPT
14		find the integration of basic functions.	K2	1	Lecture method	PPT
15		Discuss Definite integral, properties and related problems	K2	1	Lecture method	PPT
16		Discuss Integration by parts to find the integration of given functions	K2	1	Lecture method	PPT



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Pedatadepalli, TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)

Department of Basic Science and Humanities

LESSON PLAN FOR BRIDGE COURSE

Academic Year: 2022-23

Programme: B.Tech

Year/ Semester: I & II

Branch: Common to all

Name of the Course: Bridge course for Engineering Mathematics (LADE, NMVC)

Course Code: V20MAT01, V20MAT02

COURSE OUTCOMES:

Course Outcomes (Along with Knowledge Level): After

Completion of the course Students will be able to:

CO Number	Course Outcome	Knowledge Level
CO1	Explain various types of matrices Determinant, system of equations and properties	K2
CO2	solve the second and higher order polynomials and resolve partial fractions and solve	K2
CO3	Solve problems using the concept of trigonometric functions, and explain complex numbers.	K2
CO4	Discuss derivatives of various functions.	K2
CO5	Discuss integration of various functions.	K2

Text Books:

1. Higher Engineering Mathematics, B.S. Grewal, 43rd Edition, Khanna Publishers
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3. M.Vygodsky, Mathematical Handbook, Mir Publishers, Moscow.
4. Frank Ayers & Elliott Mendelson, Schaum's Outline of Calculus, Schaum's Series

S.No	Course outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of Hours Required	Pedagogy	Teaching aids
1	CO1	Define matrices, types of matrices with examples	K1	1	Lecture method	PPT
2		Discuss arithmetic operations of matrices,	K2	1	Lecture method	PPT
3		Explain determinant of matrices and properties with examples	K2	1	Lecture method	PPT
4		introduction to system of equations	K1	1	Lecture method	PPT
5	CO2	Define Algebraic equations of 2 nd and higher order polynomials,	K1	1	Lecture method	PPT
6		solve the 2 nd and higher order equations	K2	1	Lecture method	PPT
7		Explain partial fractions with examples	K2	1	Lecture method	PPT
8	CO3	Introduction to Trigonometry basic concept, compound angles, compound angles,	K1	1	Lecture method	PPT
9		Discuss complex numbers with examples	K2	1	Lecture method	PPT
10	CO4	Recall of basic formulas of differentiation, and methods of differentiation	K1	1	Lecture method	PPT
11		Explain the differentiation of various functions	K2	1	Lecture method	PPT
12		introduction to partial differentiation with examples	K1	1	Lecture method	PPT
13	CO5	recall of formulas of integration and definition	K1	1	Lecture method	PPT
14		find the integration of basic functions.	K2	1	Lecture method	PPT
15		Discuss Definite integral, properties and related problems	K2	1	Lecture method	PPT
16		Discuss Integration by parts to find the integration of given functions	K2	1	Lecture method	PPT



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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

BRIDGE COURSE SYLLABUS FOR LE's ECE, MECH

CO1: System of linear equations:

1 hour

Rank – Echelon form-Solution of linear system of equations – Scientific calculator Usage.

CO2: Differential equations of first order, first degree & second and higher order:

2 hours

Linear – Exact – Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$

CO3: Laplace Transforms

3 hours

Laplace transforms-introduction– Definition and Laplace transforms of standard functions– properties -Shifting theorems– Transforms of derivatives and integrals.

Inverse Laplace Transforms and Applications

Inverse Laplace transforms –properties- inverse Laplace transforms of derivatives and integrals - Convolution theorem,

Applications: Solving ordinary differential equations (initial value problems) using Laplace transforms.

CO4: Z – Transforms

2 hours

Z – Transforms – Properties– Damping Rule – Shifting Rule – Initial and Final value Theorems – Inverse Z-Transforms-properties– Convolution Theorem

Applications: Solutions of Difference equation by Z - transforms.

CO5: Fourier series for the periodic signals:

1 hour

Definitions – even and odd functions – Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.

Text Books:

1. B.S.Grewal, Higher Engineering Mathematics, 43rd Edition, Khanna Publishers.
2. N.P.Bali, Engineering Mathematics, Lakshmi Publications.
3. B. V. Raman, Tata Mc Graw Hill, A text Book of Engineering Mathematics.

Reference Books:

1. Erwin Kreyszig, Wiley India Pvt. Ltd, Advanced Engineering Mathematics.
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Pedatadepalli, TADEPALLIGUDEM-534 101.W.G.Dist. (A.P)

LESSON PLAN

Academic Year : 2021-222
Name of the Course : Bridge Course for Lateral Entry Students
Programme : B. Tech
Semester : III
Branch : ECE, ECT & MECH

Course Outcomes (Along with Knowledge Level):

S.NO	CO No.	Course Outcome	BTL
1	C01	Apply matrix technique to solve linear system of equations	K3
2	C02	Solve ODE of first order, first degree and second and higher order and Applications	K3
3	C03	apply the Laplace transform for solving differential equations	K3
4	C04	apply the Z- transform for solving difference equations	K3
5	C05	Find the Fourier series for the periodic signals	K3

Lecture Plan:

S. No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours required	Pedagogy	Teaching Aids
		CO1: System of linear equations	K3	1		
1	CO1	Define matrix, types of matrices, Elementary row and column operations, Explain Echelon form, System of equations and consistency	K2	1	Lecture Method	Black Board
		CO2: Differential equations of first order, first degree and second and higher order	K3	2		
2	CO2	Definition of differential equation, order, degree, solve the linear ODE, Explain exact differential equations	K2	1	Lecture Method	Black Board
3	CO2	Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$	K3	1	Lecture Method	Black Board
		CO3: Laplace Transforms	K1	3		
4	CO3	Define Laplace transforms, properties of Laplace Transforms, Laplace transform of standard functions,	K1	1	Lecture Method	Black Board
5	CO3	Derivatives and integrals, multiplication by t^n and divisible by 't'	K1	1	Lecture Method	Black Board
6	CO3	Define Inverse Laplace transforms, properties, Inverse Laplace transforms by using partial fractions, Inverse Laplace transforms of Derivatives and integrals and multiplication and divisible by 's', Inverse Laplace transforms using Convolution theorem.	K1	1	Lecture Method	Black Board
		CO4: Z-Transforms	K3	2		
7	CO4	Define Z- transforms, Z-transform of standard functions, properties of Z-transforms, initial and final value theorems, Z-transforms of functions multiplication by n and division by n	K3	2	Lecture Method	Black Board
		CO5: Fourier series for the periodic signals	K3	1	Lecture Method	Black Board
9	CO5	Definitions – even, odd and periodic functions Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.	K3	1	Lecture Method	Black Board

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Pedatadepalli, TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)

Academic Year: 2021 - 22

Semester: II-I

Course Title: Bridge Course for LE students

Branch: ECE, ECT & MECH

Course end survey

COs	Course Outcome	Knowledge level of the CO
CO1	Apply matrix technique to solve linear system of equations	K2
CO2	Solve ODE of first order, first degree and second and higher order and Applications	K3
CO3	apply the Laplace transform for solving differential equations	K3
CO4	apply the Z- transform for solving difference equations	K5
CO5	Find the Fourier series for the periodic signals	K3

QUESTIONNAIRE

1. Rate your knowledge level to apply the matrix techniques for the system of linear equations?
2. What is your knowledge level in applying the ordinary differential equations in various applications?
3. Rate your understanding level of applying Laplace Transformation to a given function?
4. What is your knowledge level of applying Z-Transformation to a given function.?
5. Can you find the Fourier series for the given periodic function?

1-Slight (low)	2-Moderate (Medium)	3-Substantial (High)
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BRIDGE COURSE SYLLABUS FOR LE's ECE, MECH

CO1: System of linear equations:

1 hour

Rank – Echelon form-Solution of linear system of equations – Scientific calculator Usage.

CO2: Differential equations of first order, first degree & second and higher order:

2 hours

Linear – Exact – Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$

CO3: Laplace Transforms

3 hours

Laplace transforms-introduction– Definition and Laplace transforms of standard functions– properties -Shifting theorems– Transforms of derivatives and integrals.

Inverse Laplace Transforms and Applications

Inverse Laplace transforms –properties- inverse Laplace transforms of derivatives and integrals - Convolution theorem,

Applications: Solving ordinary differential equations (initial value problems) using Laplace transforms.

CO4: Z – Transforms

2 hours

Z – Transforms – Properties– Damping Rule – Shifting Rule – Initial and Final value Theorems – Inverse Z-Transforms-properties– Convolution Theorem

Applications: Solutions of Difference equation by Z - transforms.

CO5: Fourier series for the periodic signals:

1 hour

Definitions – even and odd functions – Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.

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LESSON PLAN

Academic Year : 2022-23
Name of the Course : Bridge Course for Lateral Entry Students
Programme : B. Tech
Semester : III
Branch : ECE, ECT & MECH

Course Outcomes (Along with Knowledge Level):

S.NO	CO No.	Course Outcome	BTL
1	C01	Apply matrix technique to solve linear system of equations	K3
2	C02	Solve ODE of first order, first degree and second and higher order and Applications	K3
3	C03	apply the Laplace transform for solving differential equations	K3
4	C04	apply the Z- transform for solving difference equations	K3
5	C05	Find the Fourier series for the periodic signals	K3

Lecture Plan:

S. No.	Course Outcome	Intended Learning Outcomes (ILO)	Knowledge Level of ILO	No. of hours required	Pedagogy	Teaching Aids
		CO1: System of linear equations	K3	1		
1	CO1	Define matrix, types of matrices, Elementary row and column operations, Explain Echelon form, System of equations and consistency	K2	1	Lecture Method	Black Board
		CO2: Differential equations of first order, first degree and second and higher order	K3	2		
2	CO2	Definition of differential equation, order, degree, solve the linear ODE, Explain exact differential equations	K2	1	Lecture Method	Black Board
3	CO2	Linear non homogeneous differential equations of higher order with constant coefficients involving RHS term of the type e^{ax} , $\sin ax$, $\cos ax$	K3	1	Lecture Method	Black Board
		CO3: Laplace Transforms	K1	3		
4	CO3	Define Laplace transforms, properties of Laplace Transforms, Laplace transform of standard functions,	K1	1	Lecture Method	Black Board
5	CO3	Derivatives and integrals, multiplication by t^n and divisible by 't'	K1	1	Lecture Method	Black Board
6	CO3	Define Inverse Laplace transforms, properties, Inverse Laplace transforms by using partial fractions, Inverse Laplace transforms of Derivatives and integrals and multiplication and divisible by 's', Inverse Laplace transforms using Convolution theorem.	K1	1	Lecture Method	Black Board
		CO4: Z-Transforms	K3	2		
7	CO4	Define Z- transforms, Z-transform of standard functions, properties of Z-transforms, initial and final value theorems, Z-transforms of functions multiplication by n and division by n	K3	2	Lecture Method	Black Board
		CO5: Fourier series for the periodic signals	K3	1	Lecture Method	Black Board
9	CO5	Definitions – even, odd and periodic functions Fourier series of a function on $(0, 2\pi)$ and $(-\pi, \pi)$.	K3	1	Lecture Method	Black Board

SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society)

(Approved by AICTE, New Delhi & Permanently affiliated to JNTUK, Kakinada)

(Accredited by NAAC with 'A' Grade ,Recognized by UGC under section 2(f) & 12(B))

Pedatadepalli, TADEPALLIGUDEM – 534 101. W.G.Dist. (A.P)

Academic Year: 2022 - 2023

Semester: II-I

Course Title: Bridge Course for LE students

Branch: ECE, ECT & MECH

Course end survey

COs	Course Outcome	Knowledge level of the CO
CO1	Apply matrix technique to solve linear system of equations	K2
CO2	Solve ODE of first order, first degree and second and higher order and Applications	K3
CO3	apply the Laplace transform for solving differential equations	K3
CO4	apply the Z- transform for solving difference equations	K5
CO5	Find the Fourier series for the periodic signals	K3

QUESTIONNAIRE

1. Rate your knowledge level to apply the matrix techniques for the system of linear equations?
2. What is your knowledge level in applying the ordinary differential equations in various applications?
3. Rate your understanding level of applying Laplace Transformation to a given function?
4. What is your knowledge level of applying Z-Transformation to a given function.?
5. Can you find the Fourier series for the given periodic function?

1-Slight (low)	2-Moderate (Medium)	3-Substantial (High)
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