

**2.5.1. Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

**Response:**

The institution is affiliated to Jawaharlal Nehru Technological University, Ananthapuramu (JNTUA) and follows the Rules and Regulations for the assessment and evaluation processes as prescribed by the university. The institution has a transparent and robust internal assessment mechanism.

The students admitted during the academic year 2009(R09),2013(R13) and 2015(R15), the scheme of internal assessment is as follows

- i. The performance of a student in each semester / I year shall be evaluated subject –wise with a maximum of 100 marks for theory and 75 marks for practical subject. In addition seminar and project work shall be evaluated for 50 and 200 marks respectively.
- ii. For theory subjects the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End-Examination.
- iii. For theory subjects, during the semester there shall be Two midterm examinations. Each midterm examination consists of objective paper for 10 marks and subjective paper for 20 marks with duration of 1 hour 50 minutes.

The students admitted during the academic year 2019(R19), the scheme of CIE shall be of maximum of 30 marks in each theory and practical paper. CIE marks in each theory course shall be the sum of marks prescribed for online quiz, test and assignment. The marks prescribed for online quiz is 10, test shall be 15 and that for an assignment is 05, this is awarded based on the evaluation of assignments, unit tests, online quiz etc.

The internal Assessment includes the following

1. Mid examinations
2. Lab Internal Assessment
3. Internal Project Viva Voce
4. Seminar Presentation
5. Technical seminar
6. Assignments
7. Quiz

S.No	Internal Assessment Methods	Description	Frequency
1	MID examinations	This type of performance assessment is carried out during the internal examination sessions which are held twice a semester in accordance with the university calendar. Each and every sessional is focused on attaining the course outcomes. The internal are calculated as 80% of highest mid marks plus 20% of lowest mid marks.	Twice in a semester
2	Lab Internal Assessment	During the Laboratory session, all the experiments are practically done using various equipment and software to enrich their knowledge in various domains. This assessment is carried out in the day-to-day evaluation of student's performance in the laboratories with respect to conduct of various experiments. The students maintain the observation and record notebook for each Laboratory course which reflects their work during the laboratory session and verified by the respective subject handling staff. The parameters considered for assessment in the laboratory are Conduction, procedure and write up, Record writing and viva-voce.	Day to day evaluation
3	Project Viva Voce	Evaluation of the student based on the project work is also an important criterion. A rubric has also been employed in order to assess the students in terms of project work. Project work carried out by the student is evaluated by Project Guide along with project review committee. Students interact with the project guide periodically and the progress of the project in two reviews.	Two reviews
4	Seminar Presentation	To evaluate the student's involvement in the projects, students are asked to give two seminar presentations on their project. The seminars are evaluated by the guide and project review committee.	Twice in final semester
5	Technical seminar	The students need to give two technical seminars on the topic of their choice. The technical seminars	Twice in final

		to evaluate the knowledge and communication skills of the students.	semester
6	Assignments	The students admitted in 2019-20, write the assignments as a part of the internal mid exams. These have a weightage of 16.7% of total mid exam marks.	Twice in a semester
7	Quiz	The students admitted in 2019-20, take the online quiz as a part of the internal mid exams. These have a weightage of 33.3% of total mid exam marks.	Twice in a semester

## INDEX

### Criteria 2- Teaching- Learning and Evaluation

#### 2.5.1 Mechanism of Internal Assessment is Transparent and Robust in terms of Frequency and Mode

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1	Assignment Book copies
2	Unit Test
3	Lab Internal Assessment
4	Project Reviews
5	Technical Seminar
6	Subject Seminars
7	Internal Assessment Time Table
8	Online Quiz



# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA Ananthapuramu  
Near Venkayapalle, Pasupula Village, Nandikotkur Road, Kurnool – 518452  
Andhra Pradesh – India

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## ASSIGNMENT QUESTIONS

ASSIGNMENT – 1			
<b>COURSE CODE:</b> 15A05702		<b>COURSE NAME: INFORMATION SECURITY</b>	
<b>YEAR &amp; SEMESTER:</b> IV-I		<b>UNIT NO : 1</b>	
S.N O.	QUESTION	CO	COGNITIVE LEVEL
<b>SHORT ANSWER QUESTIONS</b>			
1.	What is Steganography?	C403.1	Remember
2.	Explain active and passive attack with example?	C403.1	Remember
3.	Compare Substitution and Transposition techniques	C403.1	Remember
4.	What is the difference between a block cipher and a stream cipher?	C403.1	Remember
5.	Why network need security?	C403.1	Remember
<b>LONG ANSWER QUESTIONS</b>			
6.	Explain DES algorithm and its advantages and limitations. What is Elliptic Curve Cryptography (ECC)? Explain.	C403.1	Understand
7.	Explain the AES algorithm?	C403.1	Understand



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

<b>ASSIGNMENT – 2</b>			
<b>COURSE CODE:</b> 15A05702		<b>COURSE NAME: INFORMATION SECURITY</b>	
<b>YEAR &amp; SEMESTER:</b> IV-I		<b>UNIT NO : 2</b>	
<b>S.N O.</b>	<b>QUESTION</b>	<b>CO</b>	<b>COGNITIVE LEVEL</b>
<b>SHORT ANSWER QUESTIONS</b>			
1.	What are three broad categories of applications of public – key cryptosystems?	C403.2	Remember
2.	List four general categories of schemes for the distribution of public keys?	C403.2	Understand
3.	Differentiate public key and conventional encryption.	C403.2	Understand
4.	What do you mean by key management?	C403.2	Remember
5.	What is a public key certificate?	C403.2	Remember
<b>LONG ANSWER QUESTIONS</b>			
6.	Explain in detail about the Deffie-Hellman Key exchange?	C403.2	Evaluate
7.	What is Elliptic Curve Cryptography (ECC)? Discuss ECC algorithm with neat diagram.	C403.2	Analyze



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ASSIGNMENT – 3			
<b>COURSE CODE:</b> 15A05702		<b>COURSE NAME: INFORMATION SECURITY</b>	
<b>YEAR &amp; SEMESTER:</b> IV-I		<b>UNIT NO : 3</b>	
S.N O.	QUESTION	CO	COGNITIVE LEVEL
<b>SHORT ANSWER QUESTIONS</b>			
1.	Define Message Authentication Code.	C403.4	Remember
2.	What properties must a hash function have to be useful for message authentication?	C403.4	Remember
3.	What are the various PGP services?	C403.5	Remember
4.	What are the properties of hashing functions?	C403.3	Understand
5.	Give features of Authentication Header.	C403.3	Remember
<b>LONG ANSWER QUESTIONS</b>			
6.	Explain RSA algorithm.	C403.4	Understand
7.	Give various Hash Functions. Give a neat sketch to explain the concept of Secured Hash Algorithm (SHA).	C403.4	Understand



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

<b>ASSIGNMENT – 4</b>			
<b>COURSE CODE:</b> 15A05702		<b>COURSE NAME: INFORMATION SECURITY</b>	
<b>YEAR &amp; SEMESTER:</b> IV-I		<b>UNIT NO : 4</b>	
<b>S.N O.</b>	<b>QUESTION</b>	<b>CO</b>	<b>COGNITIVE LEVEL</b>
<b>SHORT ANSWER QUESTIONS</b>			
1.	What is e-mail security? Explain the technique for e-mail security?	C403.5	Understand
2.	How to manage the password?	C403.5	Remember
3.	Discuss cross site scripting vulnerability.	C403.5	Understand
4.	What are the various PGP services?	C403.5	Remember
5.	What problem was Kerberos designed to address?	C403.5	Understand
<b>LONG ANSWER QUESTIONS</b>			
6.	Explain in detail about Kerberos	C403.5	Analyze
7.	How the messages are generated and transmitted in pretty good privacy (PGP) protocol? Explain with clear diagrams.	C403.5	Remember



**RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN: KURNOOL**

Department of Computer Science &amp; Engineering

B.Tech II Year II Sem (R19)

Assignment Questions

**OPERATING SYSTEMS****UNIT-I**

Q. No.	Question	CO	Cognitive Level
1.	Describe operating system structure and operations in detail.	C217.1	Understand
2.	What is meant by system calls?	C217.1	Remember
3.	Discuss major system calls of operating system	C217.1	Understand
4.	What is Dual- Mode Operation?	C217.1	Remember
5.	Explain in detail about IPC	C217.1	Remember

**UNIT -II**

Q. No.	Question	CO	Cognitive Level
1.	What are semaphores? Explain solution to producer-consumer problem using semaphores	C217.2	Understand
2.	Explain the following scheduling algorithms with examples: (i) Shortest-remaining-time-first.	C217.2	Understand
3.	Explain the following scheduling algorithms with examples i) Round robin	C217.2	Remember
4.	What are the turnaround and waiting processes for each process for each of the scheduling algorithms	C217.2	Remember
5.	Differentiate between process and threads	C217.2	Remember

**UNIT-III**

Q.No	Question	CO	Cognitive level
1.	Discuss about optimal page replacement algorithm.	C217.3	Understand
2.	Write short note on swapping?	C217.3	Understand
3.	Define paging? Explain paging concept in detail?	C217.3	Understand
4.	What are the functions of memory management?	C217.3	Understand
5.	What is meant by context switch?	C217.3	Apply

**UNIT-IV**

Q.No	Question	CO	Cognitive level
1.	What data are needed to manage open files? Explain?	C217.4	Understand
2.	Define spooling	C217.4	Apply
3.	Explain the method used for implementing directories	C217.4	Understand
4.	Explain in detail about disk structure and disk attachment	C217.5	Remember
5.	Explain the method used for implementing directories	C217.4	Understand

**UNIT-V**

<b>Q. No.</b>	<b>Question</b>	<b>CO</b>	<b>Cognitive level</b>
1.	Explain in detail about disk structure and disk attachment	C217.5	Remember
2.	Discuss program threats, system and network threats of Operating system in detail.	C217.6	Understand
3.	Explain the method used for implementing directories	C217.6	Understand
4.	What data are needed to manage open files? Explain	C217.5	Understand
5.	What we call rows and columns of an accessmatrix?	C217.5	Understand



## RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

III B tech -II Semester (R15)

Branch: ECE

Academic Year: 2018-19

Subject : Digital Signal Processing (15A04603)

### UNIT-1

S.NO	QUESTION	Cognitive Level	CO
<b>2-MARKS</b>			
1.	Discuss various discrete time sequences.	REMEMBER	C314.1
2.	Give the basic block diagram of DSP processor.	UNDERSTAND	C314.2
3.	Write short notes on classification of systems.	REMEMBER	C314.1
4.	<p>A discrete time signal <math>x(n)</math> is defined as</p> $X(n)=1+(n/3) \text{ for } -3 \leq n \leq -1$ $=1 \text{ for } 0 \leq n \leq 3$ $=0 \text{ elsewhere}$ <p>Determine its values and sketch the signal <math>x(n)</math>.</p> <p>Sketch the signals that results if we:</p> <p>(i) First fold <math>x(n)</math> and then delay the resulting signal by four samples.</p> <p>(ii) First delay <math>x(n)</math> by four samples and then fold the resulting signal.</p>	APPLY	C314.2
5.	Define convolution . Compare linear convolution and circular convolution techniques.		
<b>10-MARKS</b>			
6.	<p>Determine whether the following system is</p> <p>(i) Linear (ii) Causal (iii) Time Invariant</p> $Y(n)=\log_{10} x(n) $ <p>Justify your answer.</p>	ANALYZE	C314.1
7.	<p>A) Determine the zero input response of the system described by the second order difference equation <math>x(n)-3y(n-1)-4y(n-2)=0</math></p> <p>B) Determine the particular solution of the difference equation <math>y(n)=(5/6)y(n-1)-(1/6)y(n-2)+x(n)</math> when the forcing function is <math>x(n)=2^n u(n)</math>.</p>	UNDERSTAND	C314.2
8.	From the fundamentals obtain the expression for the DTFT and obtain its inverse transform.	UNDERSTAND	C314.2
9.	State and prove all the properties of DFT	ANALYZE	C314.1
10.	A) Find the DFT of sample data sequence $x(n)=\{1,1,2,2,3,3\}$ and determine amplitude and	ANALYZE	C314.1

	phase spectrum. B)Discuss all types of symmetry properties of DFT.		
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### UNIT-II

<b>2-MARKS</b>			
1.	What are the basic building blocks in realization of Digital Systems	ANALYZE	C314.4
2.	List out the FIR filter structures	REMEMBER	C314.4
3.	What is realization?	REMEMBER	C314.4
4.	How many multipliers, adders and memory elements required for direct form-2 realization	UNDERSTAND	C314.4
5.	List out the IIR filter structures	REMEMBER	C314.4
<b>10-MARKS</b>			
6.	Discuss direct form, cascade, parallel, transposed, lattice structures of IIR filters.	UNDERSTAND	C314.4
7.	Discuss direct form, cascade and Linear phase realization structures of FIR filters.	UNDERSTAND	C314.4
8.	Realize the system given by the difference equation $y(n)=-0.1y(n-1)+ 0.2 y(n-2) + 3 x(n) +3.6 x(n-1)+0.6x(n-2)$ in direct form, cascade, parallel, transposed form.	CREATE	C314.4
9.	Realize the system given by the difference equation $y(n)=-0.1y(n-1)+0.72y(n-2)+0.7x(n)-0.252x(n-2)$ in direct form, cascade, parallel, transposed form.	CREATE	C314.4
10.	Realize the system given by the difference equation $y(n)= 3/4 y(n-1) - 1/8 y(n-2) + x(n) +1/3 x(n-1)$ . in direct form, cascade, parallel, transposed form.	CREATE	C314.4

### UNIT-III

<b>2-MARKS</b>			
1.	What is bilinear transformation and sketch mapping of S-plane into Z-plane in bilinear transformation.	UNDERSTAND	C314.5
2.	Discuss the characterization of IIR filter	ANALYZE	C314.5
3.	Discuss the location poles for Chebyshev filters	ANALYZE	C314.5
4.	Compare IIR and FIR digital filters	UNDERSTAND	C314.5
5.	Compare various windowing functions.		C314.5
<b>10 MARKS</b>			
6.	Discuss IIR filter design using Bilinear Transformation and hence discuss frequency warping effect	UNDERSTAND	C314.5
7.	Discuss IIR filter design using Impulse Invariant Transformation	UNDERSTAND	C314.5

8.	Discuss IIR filter design using Approximation of Derivatives.	UNDERSTAND	C314.5
9.	Design an FIR Digital Lowpass filter using rectangular window whose cutoff frequency is 2 rad/sec and length of the window N=9.	APPLY	C314.5
10.	Design an FIR Digital highpass filter using hamming window whose cutoff frequency is 4 rad/sec and length of the window N=9.	APPLY	C314.5

#### UNIT-IV

<b>2-MARKS</b>			
1.	What is bilinear transformation and sketch mapping of S-plane into Z-plane in bilinear transformation.	UNDERSTAND	C314.5
2.	Discuss the characterization of IIR filter	ANALYZE	C314.5
3.	Discuss the location poles for Chebyshev filters	ANALYZE	C314.5
4.	Compare IIR and FIR digital filters	UNDERSTAND	C314.5
5.	Compare various windowing functions.		C314.5
<b>10 MARKS</b>			
6.	Discuss IIR filter design using Bilinear Transformation and hence discuss frequency warping effect	UNDERSTAND	C314.5
7.	Discuss IIR filter design using Impulse Invariant Transformation	UNDERSTAND	C314.5
8.	Discuss IIR filter design using Approximation of Derivatives.	UNDERSTAND	C314.5
9.	Design an FIR Digital Lowpass filter using rectangular window whose cutoff frequency is 2 rad/sec and length of the window N=9.	APPLY	C314.5
10.	Design an FIR Digital highpass filter using hamming window whose cutoff frequency is 4 rad/sec and length of the window N=9.	APPLY	C314.5

#### UNIT-V

<b>2-MARKS</b>			
1.	Define Sampling rate	REMEMBER	C314.6
2.	Give statement for sampling Theorem	REMEMBER	C314.6
3.	Write short notes on applications of multirate signal processing	ANALYZE	C314.6
4.	Define decimation and interpolation	ANALYZE	C314.6
5.	Draw the block diagram of Decimation and interpolation	UNDERSTAND	C314.6

**10-MARKS**

6.	Discuss the sampling rate conversion by a factor of $1/D$ with the help of neat block diagram.	UNDERSTAND	C314.6
7.	Explain the concepts of interpolation & decimation with the help of waveforms.	UNDERSTAND	C314.6
8.	Consider a signal $x(n)=u(n)$ (i) Obtain a signal with a decimation factor 3 (ii) Obtain a signal with a interpolation factor 3	UNDERSTAND	C314.6
9.	Explain multi stage implementation of sampling rate conversion	UNDERSTAND	C314.6
10.	Explain the applications of multi rate signal processing	UNDERSTAND	C314.6



## RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

II B tech -II Semester (R15)

Branch: ECE

Academic Year: 2019-20

Subject : Control Systems Engineering (15A02303)

### UNIT-I

	QUESTIONS ( SHORT)	CO	Cognitive Level
1	Distinguish between open loop and closed loop systems	C214.1	Understand
2	What is the effect of positive feedback on stability?	C214.1	Understand
3	What are the advantages of closed loop systems?	C214.1	Remember
4	Explain the effect of feedback on stability.	C214.1	Understand
5	Classify the control systems.	C214.1	Remember
6	In force-voltage analogy, list out the analogous quantities.	C214.1	Remember
7	List the analogous quantities in torque-current analogy.	C214.1	Remember
8	Define control system and explain with one example.	C214.1	Remember
9	What do you mean by feedback? Why negative feedback is preferred in control systems?	C214.1	Understand
10	How the sensitivity is influenced by feedback?	C214.1	Understand
11	The feedback can increase or decrease the overall gain. Justify.	C214.1	Understand
12	Differentiate translational and rotational systems.	C214.1	Understand
13	Define servo mechanism and give two examples.	C214.1	Understand

	QUESTIONS (ESSAY)	CO	Cognitive Level
1	(a) Compare and contrast 'open loop control systems' and 'closed loop control systems'. (b) Explain about the classification of control systems.	C214.1	Understand
2	With the help of necessary diagrams, describe the constructional and operational features of A.C Servo Motors. Derive the transfer function between the rotor position and error signal of an A.C Servo motor.	C214.1	Understand
3	Draw the signal flow graph and find the transfer function.	C214.1	Apply

4	<p>(a) Write Mason's gain formula and explain the meaning of all the terms in the formula.</p> <p>(b) Draw the circuit diagram of armature-controlled D.C Motor. Derive its transfer function.</p>	C214.1	Understand
5	<p>Using block diagram reduction technique, find the transfer function.</p>	C214.1	Understand
6	<p>(a) Derive the transfer function of field controlled DC servo Motor.</p> <p>(b) Derive the transfer function of armature controlled DC servo Motor.</p>	C214.1	Remember
7	<p>Derive the overall transfer function <math>C/R</math> from the signal flow graph shown.</p>	C214.1	Understand
8	<p>Find the transfer function using block diagram techniques.</p>	C214.1	Understand



9	Explain the operation of synchro error detector and derive the transfer function.	C214.1	Understand

## UNIT-II

	QUESTIONS ( SHORT)	CO	Cognitive Level
1	What do you mean by time response of a control system?	C214.2	Remember
2	Define transient response and steady-state response? On what do they depend?	C214.2	Remember
3	Define impulse response of a system.	C214.2	Remember
4	Define the term 'damping ratio' of a system. How is control systems classified depending on the value of damping?	C214.2	Remember
5	Define the following terms: a. Delay b. rise time c. peak time d. peak overshoot e. settling time f. steady state error	C214.2	Remember
6	What are type-0, type-1 and type-2 systems?	C214.2	Understand
7	What are Static error constants? What is their significance?	C214.2	Understand
8	Give relation between static and dynamic error coefficients.	C214.2	Apply
9	What do you mean by dominant poles of transfer function?	C214.2	Understand
10	Define undamped natural frequency?	C214.2	Remember
11	Which are the standard test signals? Explain.	C214.2	Remember
12	Define the characteristic equation. Why that name?	C214.2	Understand

	QUESTIONS (ESSAY)	CO	Cognitive Level
1	The forward path T.F. of a unity feedback control system is given as $G(s) = \frac{2}{s(s+3)}$ expression for unit step response of the system.	C214.2	Understand
2	Find the steady state error as a function of time for the unity feedback system $G(s) = \frac{100}{s(1+0.1s)}$ , For the input of the system is $1 + 2t + \frac{t^2}{2}$	C214.2	Apply
3	For a system whose $G(s) = \frac{10}{s(s+1)(s+2)}$ , Find Steady-state Error when it's input $R(s) = \frac{1}{s} + \frac{2}{s^2} + \frac{1.5}{s^3}$	C214.2	Apply
4	A unity feedback control system is characterized by the following OLTF $G(s) = \frac{0.4s+1}{s(s+0.6)}$ . Determine the time response for a unit step input.	C214.2	Understand
5	A unity feedback system has $G(s) = \frac{1}{s(1+2s)}$ . The input of the system is $r(t) = 2 + 4t + 6t^2$ . Determine the generalized error coefficients and steady state error.	C214.2	Apply
6	Measurements conducted on a servo mechanism show the system response to be $C(t) = 1 + 0.5e^{-30t} - 1.5e^{-10t}$ when subjected to a unit step. Find closed loop transfer function, damping, natural frequency and time domain specifications	C214.2	Apply

### UNIT-III

	QUESTIONS ( SHORT)	CO	Cognitive Level
1	What is the relation between dominant roots and settling time?	C214.3	Understand
2	Give the pictorial representation of poles for unstable, limitedly stable and stable systems.	C214.3	Understand
3	Define relative stability.	C214.3	Remember
4	Find the value of K and frequency of oscillations, if a system with CE $s^2+(2K-1)s+1=0$ will sustain oscillations.	C214.4	Understand
5	What is the effect of adding poles to $G(s)H(s)$ on root locus?	C214.4	Understand
6	What is the effect of adding zeros to $G(s)H(s)$ on root locus?	C214.4	Understand
7	The OLTF of a UFB system is given by $G(s) = \frac{Ks(s+2)}{(s-2)(s-3)}$ . How many root locus branches are there?	C214.4	Understand
8	The OLTF of a UFB system is given by $G(s) = \frac{K(s+2)}{(s+1)(s-1)}$ . How many root loci will terminate on infinity?	C214.4	Understand

	QUESTIONS (ESSAY)	CO	Cognitive Level
1	<p>(a) The characteristic equation of a control system is given by <math>s^4 + 20Ks^3 + 5s^2 + (10+K)s + 15 = 0</math>. Determine the range of values of K for the system to be stable.</p> <p>(b) A certain unity negative feedback system has the open loop transfer function <math>G(s) = \frac{K(s+1)}{s(s-1)(s+6)}</math>. Find the value of K which makes the closed loop system lose stability. What are the locations of unstable poles in the s-plane for this value of K?</p>	C214.3	Understand
2	<p>(a) How many roots of a characteristic polynomial of a system <math>s^4 - s^2 - 2s + 2</math> have positive real parts?</p> <p>(b) Determine the value K for which the characteristic polynomial of a system <math>s^4 + 8s^3 + 24s^2 + 32s + K</math> has roots with zero real part.</p>	C214.3	Understand
3	<p>(a) The open loop transfer function of a unity feedback system is given by <math>G(s)H(s) = \frac{Ke^{-s}}{s(s^2 + 5s + 9)}</math>. Determine the value of K for the system to be stable.</p> <p>(b) Determine the value of K (K &gt; 0) such that the characteristic equation <math>s^3 + 3(K+1)s^2 + (7K+5)s + (4K+7) = 0</math> has roots more negative than <math>s = -1</math>.</p>	C214.3	Apply
4	<p>(a) The open loop transfer function of a unity feedback system is given by <math>G(s)H(s) = \frac{K(s+1)}{(s^3 + as^2 + 2s + 1)}</math>. Determine the values of K and a, if the system oscillates with a frequency 2 rad/sec.</p> <p>(b) What are the difficulties with Routh criterion? How to overcome them?</p> <p>(c) Explain in detail about relative stability.</p>	C214.3	
5	Explain the rules to construct Root Locus.	C214.4	Remember
6	<p>(a) Consider a feedback system with characteristic equation <math>1 + \frac{k}{s(s+1)(s+2)} = 0</math>. Sketch the root locus when open loop gain is varied from 0 to <math>\infty</math>.</p> <p>(b) The open loop transfer function of a unity feedback system is given by <math>G(s)H(s) = \frac{K(s+2)(s+1)}{(s+0.1)(s-1)}</math>. Sketch the root locus when open loop gain K is varied from 0 to <math>\infty</math>.</p>	C214.4	Apply
7	<p>The open loop transfer function of a unity feedback system is given by <math>G(s)H(s) = \frac{K}{s(s+4)(s^2 + 4s + 20)}</math>.</p> <p>(a) Sketch the root locus for <math>0 \leq K &lt; \infty</math></p> <p>(b) At what value of K does the system become unstable?</p> <p>(c) What is frequency of sustained oscillations of the system when it just loses stability?</p>	C214.4	Apply
8	<p>(a) The open loop transfer function of a unity feedback system is given by <math>G(s)H(s) = \frac{K(s+2)}{(s^2 + 2s + 2)}</math>. Sketch the root locus when open loop gain K is varied from 0 to <math>\infty</math>.</p>	C214.4	Apply

	(b) The open loop transfer function of a unity feedback system is given by $G(s)H(s) = \frac{Ke^{-s}}{s(s+2)}$ . Sketch the root locus when open loop gain K is varied from 0 to $\infty$ .		
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### UNIT-IV

	QUESTIONS ( SHORT)	CO	Cognitive Level
1	Define resonant peak and resonant frequency.	C214.5	Remember
2	What are the advantages of frequency response?	C214.5	Understand
3	Define bandwidth and cut-off rate.	C214.5	Remember
4	What is the relation between Gain margin and phase cross over frequency?	C214.5	Understand
5	What is the relation between Phase margin and gain cross over frequency?	C214.5	Understand
6	Define corner frequency. For poles or zeros at origin, the corner frequency exists or not? Why?	C214.5	Apply
7	What are the advantages of lead-lag compensator?	C214.5	Understand
8	Define Nyquist stability criterion.	C214.5	Remember

	QUESTIONS (ESSAY)	CO	Cognitive Level
1	Draw the bode plot and determine gain margin and phase margin for $G(s)H(s) = \frac{e^{-0.3s}}{s(s+1)}$ .	C214.5	Understand
2	Draw the bode plot and determine gain margin and phase margin of a system whose open loop transfer function is given by $G(s) = \frac{100}{s(s+1)(s+2)}$ .	C214.5	Understand
3	Explain in detail about phase-lead, phase-lag and lead-lag compensators.	C214.5	Remember
4	Derive the expressions for resonant frequency, resonant peak and bandwidth of a second order system.	C214.5	Understand
5	Explain in detail about Nyquist stability criterion.	C214.5	Understand
6	The open loop transfer function of a unity feedback system is given by $G(s)H(s) = \frac{(s+2)}{(s+1)(s-1)}$ . Draw the Nyquist plot and determine stability of the closed loop system.	C214.5	Apply
7	The open loop transfer function of a unity feedback system is given by $G(s) = \frac{(4s+1)}{s^2(s+1)(2s+1)}$ . Draw the Nyquist plot and determine stability of the closed loop system.	C214.5	Apply

8	Consider a unity feedback system with open loop transfer function $G(s) = \frac{1}{s(1+0.02s)(1+0.05s)}$ . Sketch the polar plot and determine gain margin and phase margin.	C214.5	Apply
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## UNIT-V

	QUESTIONS ( SHORT)	CO	Cognitive Level
1	Define state and state variables.	C214.6	Remember
2	Mention different types of state variable representations.	C214.6	Remember
3	Derive the expression for state transition matrix.	C214.6	Understand
4	State any two properties of STM.	C214.6	Remember
5	Derive the relation between diagonal matrix, diagonalizing matrix for a state matrix A.	C214.6	Understand
6	Write the expression for Vander Monde matrix in terms of eigenvalues.	C214.6	Understand
7	Define controllability and observability for state models.	C214.6	Understand
8	What is the relation between diagonalizing matrix, eigenvalues and eigenvectors for a state matrix A?	C214.6	Understand

	QUESTIONS (ESSAY)	CO	Cognitive Level
1	Obtain the state model of armature controlled DC motor.	C214.6	Apply
2	(a)Obtain the canonical form and state model of a system described by a differential equation $\ddot{y} + 6\dot{y} + 11y = 8\ddot{u} + 17\dot{u} + 8u$ ; Where $y$ is output and $u$ is input. (b)Obtain the canonical state model of a system, whose transfer function is given by $\frac{Y(s)}{U(s)} = \frac{2s^2 + 6s + 7}{(s + 1)^2(s + 2)}$	C214.6	Understand
3	Consider a control system with state model $\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \end{bmatrix} = \begin{bmatrix} 0 & 1 \\ -2 & -3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + \begin{bmatrix} 0 \\ 2 \end{bmatrix} [u]$ ; $\begin{bmatrix} x_1(0) \\ x_2(0) \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$ ; Compute the STM and system response $x(t)$ .	C214.6	understand
4	Find the eigenvalues, eigenvectors ,modal matrix and Jordan matrix for a system matrix given by $A = \begin{bmatrix} 4 & 1 & -2 \\ 1 & 0 & 2 \\ 1 & -1 & 3 \end{bmatrix}$	C214.6	understand

5	<p>Consider a system with state model given by</p> $\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \\ \dot{x}_3 \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ -6 & -11 & -6 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} + \begin{bmatrix} 0 \\ 0 \\ 2 \end{bmatrix} u \text{ and } y =$ $\begin{bmatrix} 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix};$ <p>Check whether the system is completely state controllable or not.</p>	C214.6	Apply
6	<p>For the state equation:</p> $\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \end{bmatrix} = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + \begin{bmatrix} 0 \\ 1 \end{bmatrix} r(t)$ <p>With a unit step input and the initial conditions are <math>X(0) = \begin{bmatrix} 0 \\ 1 \end{bmatrix}</math>. Find the following (i) State transition matrix (ii) Solution of the state equation.</p>	C214.6	Apply
7	<p>Examine the observability of a system represented by</p> $\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \\ \dot{x}_3 \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & -2 & -3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} \text{ and } y = \begin{bmatrix} 3 & 4 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix}$	C214.6	Apply
8	<p>Diagonalize the system matrix <math>A = \begin{bmatrix} 0 &amp; 6 &amp; -5 \\ 1 &amp; 0 &amp; 2 \\ 3 &amp; 2 &amp; 4 \end{bmatrix}</math> and find STM.</p>	C214.6	Apply





**RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN, KURNOOL**

**B.Tech - III-I Semester (R15) MID II Examinations**

**Branch: ECE**

**SET 1**

**Sub: AWP(15A04501)**

**Time: 1½ Hrs.**

**Date: 13/11/2018**

**Max Marks: 30M**

**Question 1 is compulsory. Answer one from 2 or 3 and one from 4 or 5.**

		Marks	Unit	CO	Cognitive Level
1. i)	Define roughness of the antenna?	2	5	C302.6	Remember
ii)	What is optimum working frequency?	2	5	C302.6	Remember
iii)	Why zoning is used in lens antenna ?	2	3	C302.4	Remember
iv)	Explain the principle of pattern multiplication?	2	4	C302.3	Understand
v)	What are the advantages of binomial arrays?	2	4	C302.3	Remember
2. a)	Describe the ionosphere reflection of radio waves, derive an expression for critical frequency of a reflecting layer in terms of its ionisation density?	6	5	C302.6	Apply
b)	Explain the principle of pattern multiplication used to determine the resultant pattern of an array of Antennas with an example.	4	4	C302.3	Understand
3. a)	In a Linear array of 4 isotropic elements spaced $\lambda/2$ apart with equal currents fed in phase , plot the radiation pattern in polar coordinates.	6	4	C302.3	Apply
b)	Explain the measurement technique of radiation pattern of an antenna.	4	4	C302.6	Understand
4. a)	A transmitting antenna of 100 m height radiates 40 kW at 100 MHz uniformly in azimuth plane. Calculate the maximum line of sight (LOS) range and strength of the received signal at 16 m high receiving antenna at a distance of 10 km. At what distance would be signal strength reduce to 1 mV/m.	6	5	C302.6	Analyze
b)	Write a short notes on M -curves and duct propagation.	4	5	C302.6	Remember
5. a)	Explain the basic principle of operation of lens antenna. Hence distinguish between the different types of lens Antennas, explaining their curvature profiles.	6	3	C302.4	Understand
b)	Establish and explain the gain and beam width relations for the parabolic reflectors and account for its beamshaping consideration	4	3	C302.4	Understand



**RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN, KURNOOL**

**B.Tech - III-I Semester (R15) MID II Examinations**

**Branch: ECE**

**SET 2**

**Sub: AWP(15A04501)**

**Time: 1½ Hrs.**

**Date: 13/11/2018**

**Max Marks: 30M**

**Question 1 is compulsory. Answer one from 2 or 3 and one from 4 or 5.**

		Marks	Unit	CO	Cognitive Level
1. i)	Calculate skin depth in a copper at frequency 1 megahertz having conductivity of $5.8 \times 10^7 \Omega/m$	2	5	C302.6	Apply
ii)	Differentiate broadside and endfire array?	2	4	C302.3	Analyze
iii)	Define gyro frequency?	2	5	C302.6	Remember
iv)	What are the various types of feed systems for a parabolic reflector?	2	3	C302.4	Remember
v)	Define array factor?	2	4	C302.3	Remember
2. a)	A radio link has to be established between two earth stations placed at a distance of 25000 km between them. if the height of the ionosphere is 200km and its critical frequency is 5MHz, calculate the MUF for the given path. also calculate the electron density in the ionosphere.	6	5	C302.6	Analyze
b)	Derive the expressions of null - null beam width of a uniform Linear array?	4	4	C302.3	Apply
3. a)	Explain the terms: (1) optimum working frequency. (2) duct propagation (3) virtual height (4) skip distance (5) MUF.	6	5	C302.6	Understand
b)	Derive an expression for the refractive index of the ionosphere in terms of 'N' and frequency.	4	5	C302.6	Apply
4. a)	Derive the relation between MUF and skip distance for flat earth surface.	6	5	C302.6	Analyze
b)	Prove that the beam width of a long endfire array proposed by Hansen woodyard is 71 percentage of beamwidth obtained from ordinary endfire array	4	4	C302.3	Analyze
5. a)	Discuss about dielectric and metal lens antenna and their applications?	6	3	C302.4	Understand
b)	With reference to parabolic antenna explain: (1) f/d ratio (2) spill over and aperture efficiency (3) front to back ratio (4) types of feeds.	4	3	C302.4	Understand





Sub: AWP(15A04501)  
 Time: 1½ Hrs.

Date: 13/11/2018  
 Max Marks: 30M

**Question 1 is compulsory. Answer one from 2 or 3 and one from 4 or 5.**

		Marks	Unit	CO	Cognitive Level
1. i)	What is skip distance?	2	5	C302.6	Remember
ii)	Applying signal amplitudes in the form of Binomial Distribution to the array of five isotropic Antennas spaced Lambda by two apart and draw its normalised field pattern	2	4	C302.3	Apply
iii)	Where near and far fields of AC current element coincide? Justify.	2	5	C302.6	Apply
iv)	Calculate the maximum single hop distance for 'D' and 'E' layers if their heights are assumed to be 70 and 130 km respectively above the earth & the angle of incidence is $10^\circ$ for both cases.	2	5	C302.6	Analyze
v)	why horizontal polarization antennas are not suitable for ground waves? Explain	2	5	C302.6	Remember
2. a)	Expression for effective dielectric constant and Critical frequency of an ionospheric layer	6	5	C302.6	Apply
b)	Describe how gain of an antenna Under test is measured using absolute gain method.	4	4	C302.1	Understand
3. a)	What are the precautions to be taken to obtain an accurate pattern measurement and Explain the method of measurement of antenna directivity with the help of the diagram?	6	4	C302.6	Remember
b)	Distinguish between broadside array and end fire array.	4	4	C302.3	Analyze
4. a)	Expression for the field strength due to space wave propagation at the point away from the transmitter.	6	5	C302.6	Apply
b)	Explain Main features of sommerfeld's theory	4	5	C302.6	Understand
5. a)	Deduce the expression for the array factor due to an N-element uniform linear antenna array and draw its plot for N=4.	6	4	C302.3	Analyze
b)	Consider two hertzian dipoles are placed in free space along Z axis but oriented parallel to the x-axis . The two element antenna specified above, normalised field pattern when currents are fed in phase and distance between them $d = \lambda/2$ .	4	4	C302.3	Analyze



Sub: AWP(15A04501)  
 Time: 1½ Hrs.

Date: 13/11/2018  
 Max Marks: 30M

**Question 1 is compulsory. Answer one from 2 or 3 and one from 4 or 5.**

		Marks	Unit	CO	Cognitive Level
1. i)	Parabolic reflector of cross sectional area of 8000 square metres is uniformly excited at 5 gigahertz. Calculate the half power beam width?	2	5	C302.6	Analyze
ii)	Assuming perpendicularly polarized feeds, draw the corner reflectors and their images for angles of 90 degrees and 40 Degrees	2	3	C302.4	Apply
iii)	Give the different field regions of an antenna and specify them graphically with respect to antenna's position	2	4	C302.6	Remember
iv)	Find the basic path loss for communication between two stations 300 km apart at a frequency of 300 megahertz.	2	5	C302.6	Remember
v)	Calculate the distance beyond which the earth's curvature is to be accounted at a signal frequency of 10 megahertz.	2	5	C302.6	Apply
2. a)	A plane wave at 20 MHz is transmitted to ionosphere and reflected from a height of 500 km from the flat earth. If the refractive index corresponding to maximum electron density is 0.5, determine the horizontal range for which the signal frequency is MUF.	6	5	C302.6	Apply
b)	Explain the gain measurement of an antenna using 3-antenna method.	4	4	C302.1	Understand
3. a)	Given a linear uniform array of 10 isotropic antennas with $\lambda/4$ seperation.find directivity for (i) BSA (ii) EFA .	6	4	C302.3	Remember
b)	Describe structure of ionosphere and its layers are aiding long distance communication at radio frequencies.	4	5	C302.6	Remember
4. a)	With suitable block diagram, give the steps to measure radiation pattern of an antenna considering E-plane & H – plane.	6	4	C302.2	Apply
b)	distinguish between broad side array and end fire array.	4	4	C302.3	Analyze
5. a)	Explain the working of lens antenna and zoning?	6	3	C302.4	Understand
b)	Give comparison between parabolic and corner reflectos.	4	3	C302.4	Analyze





**RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN (3T), KURNOOL**

**B.Tech – III-I Semester (R15) MID I Examinations**

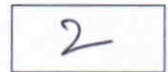
**Branch: ECE**

Sub: DCS  
Time: 1½ Hrs.

Date: 06-01-2020  
Max Marks: 30M

**Question 1 is compulsory. Answer one from 2 or 3 and one from 4 or 5.**

		Marks	Unit	CO	Cognitive Level
1. i)	Briefly explain noise effect in PCM.	2	1	C303.2	Understand
ii)	Compare natural sampling and flat top sampling.	2	1	C303.1	Analyze
iii)	Define duobinary signaling. What are the disadvantages of it?	2	2	C303.3	Remember
iv)	List the properties of matched filter.	2	2	C303.3	Remember
v)	What is companding?	2	1	C303.1	Remember
2. a)	Explain the basic principle and operation of TDM with neat sketches.	6	1	C303.1	Understand
b)	Explain about uniform quantization in brief.	4	1	C303.1	Understand
3.a)	Explain delta modulation system in detail with neat sketches.	6	1	C303.2	Understand
b)	In a binary PCM system, the output signal to quantization noise ratio is to be held to a minimum of 40dB. Determine the number of required levels, and find the corresponding output signal to quantization noise ratio.	4	1	C303.2	Evaluate
4.a)	Explain the principle and operation of correlative coding.	5	2	C303.3	Understand
b)	Briefly explain about eye pattern	5	2	C303.3	Understand
5.a)	What is ISI? Explain the behavior of ISI for the baseband binary PAM transmission system.	6	2	C303.3	Understand
b)	Draw the signaling line codes for given binary data 0 1 1 0 1 0 0 1 using unipolar NRZ, polar NRZ, RZ, Bipolar RZ and split coding	4	2	C303.3	Remember



**RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN (3T), KURNOOL**

**B.Tech – III-I Semester (R15) MID I Examinations**

**Branch: ECE**

Sub: DCS  
Time: 1½ Hrs.

Date: 06-01-2020  
Max Marks: 30M

**Question 1 is compulsory. Answer one from 2 or 3 and one from 4 or 5.**

		Marks	Unit	CO	Cognitive Level
1. i)	State sampling theorem.	2	1	C303.1	Remember
ii)	what is meant by uniform and non-uniform quantization?	2	1	C303.1	Understand
iii)	Discuss how pulse shaping reduce ISI	2	2	C303.3	Understand
iv)	Print out duobinary system. what are the drawbacks of it.	2	2	C303.3	Remember
v)	what is Schwartz inequality.	2	3	C303.2	Remember
2. a)	Draw and explain the block diagram of PCM.	5	1	C303.2	Remember
b)	Explain about uniform quantization in brief	5	1	C303.1	Understand
3.a)	Explain in detail Non-Uniform quantization.	5	1	C303.1	Evaluate
b)	What are the advantages and disadvantages of delta modulation	5	1	C303.2	Understand
4.	Explain with neat block diagram the structure and behavior of matched filter receiver.	10	2	C303.3	Understand
5.	Explain in brief about Duobinary signaling scheme.	10	2	C303.3	Understand

**RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN: KURNOOL**  
**Department of Computer Science & Engineering**  
**B.Tech III Year – I Sem (R15) First Mid – term Examinations, January, 2021**

**COMPUTER NETWORKS**

Time: 90 minutes

Max.Marks: 30

**Question 1 is compulsory. Answer one from 2 or 3 and one from 4 or 5.**

		Marks	Unit	CO	Cognitive Level
<b>1 a)</b>	Define a Computer Network.	2M	1	C302.1	Remember
<b>b)</b>	What is Packet Switching	2M	1	C302.1	Remember
<b>c)</b>	What is Forward Error Correction	2M	2	C302.2	Remember
<b>d)</b>	Define Framing in DLL.	2M	2	C302.2	Remember
<b>e)</b>	List the types of Networks	2M	1	C302.1	Analyze
<b>2</b>	Write about OSI/ISO reference model by specifying each layer functionalities.	10M	1	C302.1	Remember
<b>3</b>	Describe transmission media and its types.	10M	1	C302.1	Understand
<b>4 a)</b>	State and explain about various design issues of data link layer.	5M	2	C302.2	Understand
<b>b)</b>	How PPP differs from HDLC? Explain.	5M	2	C302.2	Remember
<b>5</b>	Illustrate about multiple access protocols	10M	2	C302.3	Understand

Code: 19A05302T

SET 1

R19

RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN :: KURNOOL

Department of Computer Science and Engineering

B.Tech II Year I Sem (R19) First Mid-term Examinations, JAN/2021

DATABASE MANAGEMENT SYSTEMS

Time: 90 minutes

Max.Marks:15

Answer the following questions:			Marks	Course Outcome(s)	Cognitive Level
1	a)	Define a File and What are the pitfalls of using File Management System?	2	C204.1	Remember
	b)	Explain the architecture of Database system with a neat diagram? (or)	3	C204.1	Understand
	a)	Define DBMS and mention it's applications?	3	C204.1	Remember
	b)	Write about different types of Keys in DBMS?	2	C204.1	Apply
2	a)	Write a short note on data types in SQL?	2	C204.2	Apply
	b)	Explain DDL commands in SQL with examples? (or)	3	C204.2	Understand
	a)	Describe Set operators in SQL?	2	C204.2	Understand
	b)	Write a PL/SQL program to find biggest of three numbers?	3	C204.3	Apply
3	a)	What is a Transaction and explain it's properties?	2	C204.1	Remember
	b)	Explain Relational Algebra operations in DBMS? (or)	3	C204.1	Understand
	a)	Explain DML commands in SQL with examples?	3	C204.2	Understand
	b)	What are integrity constraints? Explain various types of integrity Constraints with suitable example.	2	C204.2	Remember

# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN: KURNOOL

## Circular

Date: 28.09.2021

All the faculty members handling I B.Tech II Semester classes are hereby informed that the First Mid & Second Mid -term Examinations will commence from October 06, 2021 & October 18, 2021 respectively.

The faculty shall set FOUR sets of subjective-type question papers for a maximum of 30 marks each in the prescribed question paper pattern and in compliance with respective course outcomes of the subjects as per NBA norms. Marks secured for three questions shall be reduced to 15 marks, fraction if any, rounded off to next higher integer.

The faculty shall announce pattern of the question paper in the respective class rooms.

The faculty shall submit one set of hard copies of all the question papers to the respective Heads of the Departments (HoDs) after putting signature on every question paper. In turn, HoDs are requested to

- i. Verify every question paper and then to write on each question paper "Verified" and then to put signature.
- ii. Get question papers sealed in envelopes subject-wise.
- iii. Get subject-wise question papers sealed in big envelopes year-wise.
- iv. Eventually submit all these question paper covers to the undersigned (but not to Exams In-charge) by October 03, 2021 without fail.

On the day of the exam, Additional Controllers of Exams shall open the corresponding sealed question paper covers, Xerox the question papers and get copies of question papers arranged on pads exam hall-wise.


The faculty members shall value the answer scripts, shall get scrutinized by the students and shall write marks secured out of 30 marks in subjective type exam on the main sheet of Main Answer Booklet. The faculty shall enter in separate columns in the Attendance Registers the following.

1. The marks secured in the subjective-type exam out of 30 marks
2. The marks reduced to 15 marks
3. The marks secured in the objective-type exam (Online Exam)
4. Prepare 20 Objective type questions from each subject as per the mid syllabus.
5. Total marks secured out of 30 (marks reduced to 15 and rounded off plus marks secured in objective type exam for 10 marks & Assignment for 5 Marks)

Then, they shall enter the marks in the respective soft copies, in ECAP and submit valued answer scripts to the respective HoDs by October 14, 2021. No student shall be allowed to scrutinize her valued answer script after October 14 2021.

  
PRINCIPAL

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Copy to Notice Boards  
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RAVINDRA COLLEGE OF  
ENGINEERING FOR WOMEN  
Pusupula(V), Nandikotkur Road  
Near Venkayapalli, KURNOOL

# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN: KURNOOL

## Circular

Date: 28.09.2021

### B.Tech I Year II Semester Second Mid- Term Examinations AY 2020-21

All the students of I Year B.Tech & faculty concerned are hereby informed that Second Mid-term Examinations will commence on October 18, 2021. Schedule of the Examinations is displayed in the Notice Boards and a copy is attached herewith.

Both descriptive and objective examinations are in off line mode. Faculties are informed that prepare 4 sets of question papers of both descriptive and objective submit to the exam section before 03-10-2021.

Each Mid-term Exam is for a maximum of 15 Marks. The Second mid-term exams shall cover the portion of the syllabus of remaining 3 units in each subject.

As both the Mid-term Examinations are mandatory for the students who belong to R-20 regulations, all the students are informed to attend Mid-term examinations with thorough preparation and secure maximum marks in all the Mid-term Exams.

## SECOND MID TERM EXAMINATION SCHEDULE

**TIMMINGS 1:00 PM to 2:50 PM**

### Timetable

DATE & TIME/ BRANCH	18.10.2021 Monday	20.10.2021 Wednesday	21.10.2021 Thursday	22.10.2021 Friday	23.10.2021 Saturday	25.10.2021 <u>10:30 AM to</u> <u>12:00 PM</u> Monday
ECE	Differential Equations and Vector Calculus (20A54201)	B. Jay Chemistry (20A51101T)	C- Programming & Data Structures (20A05201T)	Electronic Devices & Circuits (20A04101T)	Environmental Science (20A99201)	—
CSE	Probability & Statistics (20A54202)	N Applied Physics (20A56201T)	Communicative English (20A52101T)	Python Programming & Data Science (20A05101T)	Universal Human Values (20A52201)	Engineering Drawing (20A03101T)
CSE-AI	Probability & Statistics (20A54202)	N Applied Physics (20A56201T)	Communicative English (20A52101T)	Python Programming & Data Science (20A05101T)	Universal Human Values (20A52201)	Engineering Drawing (20A03101T)

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# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN: KURNOOL

## Circular

Date: 28.09.2021

### B.Tech I Year II Semester First Mid- Term Examinations AY 2020-21

All the students of I Year B.Tech & faculty concerned are hereby informed that First Mid-term Examinations will commence on October 06, 2021. Schedule of the Examinations is displayed in the Notice Boards and a copy is attached herewith.

Both descriptive and objective examinations are in off line mode. Faculties are informed that prepare 4 sets of question papers of both descriptive and objective submit to the exam section before 03-10-2021.

Each Mid-term Exam is for a maximum of 15 Marks. The Second mid-term exams shall cover the portion of the syllabus of remaining 3 units in each subject.

As both the Mid-term Examinations are mandatory for the students who belong to R-20 regulations, all the students are informed to attend Mid-term examinations with thorough preparation and secure maximum marks in all the Mid-term Exams.

### FIRST MID TERM EXAMINATION SCHEDULE

**TIMMINGS 1:00 PM to 2:50 PM**

#### Timetable

DATE & TIME/ BRANCH	06.10.2021 Wednesday	07.10.2021 Thursday	08.10.2021 Friday	09.10.2021 Saturday	11.10.2021 Monday	12.10.2021 <u>10:30 AM to</u> <u>12:00 PM</u> Tuesday
ECE	Differential Equations and Vector Calculus (20A54201)	Chemistry (20A51101T)	C- Programming & Data Structures (20A05201T)	Electronic Devices & Circuits (20A04101T)	Environmental Science (20A99201)	—
CSE	Probability & Statistics (20A54202)	Applied Physics (20A56201T)	Communicative English (20A52101T)	Python Programming & Data Science (20A05101T)	Universal Human Values (20A52201)	Engineering Drawing (20A03101T)
CSE-AI	Probability & Statistics (20A54202)	Applied Physics (20A56201T)	Communicative English (20A52101T)	Python Programming & Data Science (20A05101T)	Universal Human Values (20A52201)	Engineering Drawing (20A03101T)

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