

PRR&VS GOVERNMENT COLLEGE, VIDAVALUR



DEPARTMENT OF MATHEMATICS

BRIDGE COURSE

2023-24

**PRR & VS GOVT. COLLEGE, VIDAVALURU SPSR NELLORE
DIST**

DEPARTMENT OF MATHEMATICS

Bridge course in MATHEMATICS

Aims and Objectives

A bridge course for newly admitted students is conducted every year before the commencement of the first semester classes. The main objective of the course is to bridge the gap between subjects studied at intermediate level and subjects they would be studying in graduate level. The Bridge Courses also focus on the pupil with different learning abilities, academic standards and performances. These courses help to bring back the slow learners to the mainstream classes to the best of their potential who would have had fallen behind due to some or the other reason.

Our college has large number of students entering for graduation in science after their 10+2 classes. In spite of their good academic record students have virtually stopped studying after the month of April. During the admission for I year BSc (NOW It is **MATHEMATICS major subject according to NEP-2020**), students have flexibility for selection of subjects. Thus the new academic environment and teaching methods build pressure in the minds of the students. As the students are unable to cope with the pace of teaching and the new campus life in attention to concept and understanding of the subject are challenged in the very beginning itself. This affects their performance in 1st year semester examination.

PRR & VS GOVT. COLLEGE, VIDAVALURU SPSR NELLORE DIST
DEPARTMENT OF MATHEMATICS

ACADEMIC YEAR 2023-24

Duration of Bridge course in MATHEMATICS:

10 hrs are allotted for the Bridge course in MATHEMATICS

Syllabus:

1. Introduction to Differential Equations and order, degree.
2. Homogeneous and Linear Differential Equations
3. Introduction to analytical geometry.
4. Group properties and linear algebra properties.
5. Basic concepts on real analysis, limits and continuity.

S.NO.	DATE	TOPIC COVERED
1.	11.09.23	Introduction to Differential Equations and formation of DE
2.	15.09.23	Order, Degree of Differential Equations
3.	16.09.23	Homogeneous and linear Differential equations
4.	19.09.23	Exercise problems solving
5.	20.09.23	Introduction to analytical geometry.
6.	22.09.23	Exercise problems solving
7.	24.09.23	Group properties and linear algebra properties.
8.	25.09.23	Exercise problems and theorems
9.	26.09.23	Limits and continuity
10.	28.09.23	Exercise problems solving

EXAMINATION (2 HOURS)

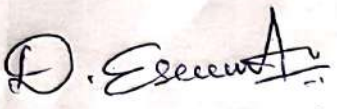
Nature of question paper:-

Total Marks: 30 marks

Bridge course in MATHEMATICS (2023-24)

List of students (MATHEMATICS MAJOR)

S.N O	NAME OF THE STUDENT	11/ 09/23	15/ 09/23	16/ 09/23	19/ 09/23	20/ 09/23	22/ 09/23	24/ 09/23	25/ 09/23	26/ 09/23	27/ 06/23	28/ 09/23
1	A.Prasanna Kumar	AB	P	P	AB	AB	AB	AB	P	P	P	P
2	K. Divyavani	P	AB	P	AB	P	AB	AB	AB	P	AB	P
3	P. Pratyusha	P	P	AB	P	P	P	P	AB	P	P	P


(Dr. D. Eswara Rao)


PRINCIPAL
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VIDAVALUR - 524318.
SPSR NELI ORF 01.

PRR&VS GOVERNMENT COLLEGE, VIDAVALUR, SPSR NELLORE
DEPARTMENT OF MATHEMATICS

Question paper for Bridge course
(2023-24)

Max.marks:30

Time: 2hrs

Section-A

1. What is the order of a differential equation?
 - A) The highest power of the derivative in the equation.
 - B) The number of terms in the equation.
 - C) The sum of powers of all derivatives in the equation.
 - D) The number of variables in the equation.

2. How is the degree of a differential equation determined?
 - A) By counting the total number of terms in the equation.
 - B) By adding the exponents of all the variables in the highest order derivative.
 - C) By dividing the equation by the number of derivatives.
 - D) By counting the number of variables in the equation.

3. What does the order of a differential equation represent?
 - A) The complexity of the equation.
 - B) The number of variables in the equation.
 - C) The highest power of the derivative in the equation.
 - D) The degree of the highest order derivative in the equation.

4. If a differential equation contains only first-order derivatives, what is its order?
 - A) Zero order.
 - B) First order.
 - C) Second order.
 - D) Variable order.

5. Question: In a differential equation, what does the degree of the equation indicate?

- A) The complexity of the equation.
- B) The highest power of the independent variable.
- C) The sum of powers of all derivatives.
- D) The degree of the highest order derivative in the equation.

6. How is the order of a partial differential equation determined?

- A) By counting the total number of terms in the equation.
- B) By adding the exponents of all the variables in the highest order partial derivative.
- C) By dividing the equation by the number of partial derivatives.
- D) By counting the number of variables in the equation.

Sure, here are five multiple-choice questions (MCQs) related to homogeneous and linear differential equations:

7. Which of the following is a homogeneous differential equation?

- a) $y'' + 3y' - 2y = 0$
- b) $y'' + 3y' - 2y = 5$
- c) $y'' + 3y' - 2y = e^x$
- d) $y'' + 3y' - 2y = x^2$

8. A linear differential equation is characterized by having:

- a) Non-constant coefficients
- b) Non-integer powers of the dependent variable
- c) Non-linear terms
- d) Constant coefficients

9. Determine if the following differential equation is linear:

$$y'' + e^x y' - \sin(x) y = 0$$

- a) Linear
- b) Non-linear

10. Which of the following is a linear differential equation?

a) $y'' + 2xy' + y = 0$

b) $y'' + \sin(y) = 0$

c) $y'' + e^y = 0$

d) $y'' - \cos(x)y' = 0$

11. A homogeneous differential equation is one in which:

a) All coefficients are constants

b) The dependent variable and its derivatives are of the same degree

c) The right-hand side is equal to zero

12. What is the equation of a circle with center (3, 4) and radius 5?

A. $(x - 3)^2 + (y - 4)^2 = 25$

B. $(x + 3)^2 + (y + 4)^2 = 25$

C. $(x - 3)^2 + (y + 4)^2 = 25$

D. $(x + 3)^2 + (y - 4)^2 = 25$

13. Which of the following represents a horizontal line?

A. $y = 2x + 3$ B. $x = 5$ C. $y = -3$ D. $x + y = 7$

14. If the slope of a line is undefined, what can be said about the line?

A. The line is vertical.

B. The line is horizontal.

C. The line is slanting.

D. The line is parallel to the x-axis.

15. What is the distance between the points (2, 3) and (5, 7)?

A. $\sqrt{13}$

B. $\sqrt{22}$

C. $\sqrt{34}$

D. $\sqrt{10}$

16. Which of the following is the standard form of the equation for a parabola?

A. $y = ax^2 + bx + c$

B. $x^2 + y^2 = r^2$

C. $y = mx + b$

D. $x^2 = 4ay$

17. If the line passes through the points (1, 2) and (3, 4), what is the slope of the line?
A. 1 B. 2 C. 0.5 D. 2.5
18. In group theory, the identity element is:
A) Any element in the group
B) The element with the highest order
C) The element that, when combined with any other element, leaves the element unchanged
D) The element with the lowest order
19. The order of a group is defined as:
A) The number of elements in the group
B) The sum of the orders of all elements in the group
C) The maximum order of any element in the group
D) The product of the orders of all elements in the group
20. In a group, if the product of any two elements is also in the group, the group is said to be:
A) Abelian B) Non-abelian C) Cyclic D) Simple
21. Lagrange's theorem states that the order of any subgroup of a finite group divides the:
A) Sum of the orders of all elements in the group
B) Order of the group
C) Product of the orders of all elements in the group
D) Square root of the order of the group
22. A group is called cyclic if:
A) It has only one element
B) It is an abelian group
C) It has a unique identity element
D) It can be generated by a single element

23. The inverse of an element in a group:

- A) Is always the identity element
- B) Is the element itself
- C) Is unique and exists in the group
- D) Does not exist in a group

24. If every non-identity element in a group has order 2, the group is:

- A) Abelian
- B) Cyclic
- C) Non-abelian
- D) Simple

25. If a function is continuous on the closed interval $[a, b]$, then:

- A. The function is also differentiable on $[a, b]$
- B. The function is differentiable on (a, b)
- C. The function may or may not be differentiable on (a, b)
- D. The function is not defined on $[a, b]$

26. What is the limit of the function $f(x) = 2x^2 - 5x + 3$ as x approaches 3?

- A. 12
- B. 21
- C. 18
- D. 27

27. For which value of x does the function $g(x) = (x^2 - 1) / (x - 1)$ fail to be continuous?

- A. $x = 1$
- B. $x = 0$
- C. $x = -1$
- D. $x = 2$

28. Consider the function $f(x) = (2x + 1) / (x - 3)$. What is the vertical asymptote of this function?


- A. $x = 2$
- B. $x = 3$
- C. $x = -1$
- D. $x = 0$

29. If $\lim_{(x \rightarrow 2)} f(x) = 5$ and $\lim_{(x \rightarrow 2)} g(x) = 3$, what is $\lim_{(x \rightarrow 2)} [f(x) - g(x)]$?

- A. 1
- B. 2
- C. 3
- D. 4

30. What is the continuity condition for a function $f(x)$ at a point $x = a$?

- A. $f(a)$ must be defined
- B. $\lim_{(x \rightarrow a)} f(x)$ must exist
- C. $\lim_{(x \rightarrow a)} f(x) = f(a)$
- D. All of the above


(Dr. D. Eswara Rao)


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DEPARTMENT OF PHYSICS

BRIDGE COURSE

2023-24

PRR & VS GOVT. COLLEGE, VIDAVALURU SPSR NELLORE DIST
DEPARTMENT OF PHYSICS

Bridge course in Physics

Aims and Objectives

A bridge course for newly admitted students is conducted every year before the commencement of the first semester classes. The main objective of the course is to bridge the gap between subjects studied at intermediate level and subjects they would be studying in graduate level. The Bridge Courses also focus on the pupil with different learning abilities, academic standards and performances. These courses help to bring back the slow learners to the mainstream classes to the best of their potential who would have had fallen behind due to some or the other reason.

Our college has large number of students entering for graduation in science after their 10+2 classes. In spite of their good academic record students have virtually stopped studying after the month of April. During the admission for I year BSc (NOW It is **physics major subject according to NEP-2020**), students have flexibility for selection of subjects. Thus the new academic environment and teaching methods build pressure in the minds of the students. As the students are unable to cope with the pace of teaching and the new campus life in attention to concept and understanding of the subject are challenged in the very beginning itself. This affects their performance in I st year semester examination.

PRR & VS GOVT. COLLEGE, VIDAVALURU SPSR NELLORE DIST
DEPARTMENT OF PHYSICS

ACADEMIC YEAR 2023-24

Duration of Bridge course in Physics:

10 hrs are allotted for the Bridge course in Physics

Syllabus:

1. Introduction to Physics: Definition, Basic concepts in physics
2. Mechanics: statements displacement, momentum, force, energy
3. Thermodynamics: Heat, work, Internal Energy, 2nd law of Thermodynamics
4. Optics: Reflection, Refraction Total internal reflection, Interference concepts
- Electricity: Coulombs law, Electric field intensity, potential
- Moving Charges: Biot Savarts law, Amperes law, Magnetic field at the centre of circular coil
Ammeter, Voltmeter.
- Modern physics: Atom, Atomic number, mass number, element significance, Atomic models, Pauli's
Exclusion principle

S.NO	DATE	TOPIC COVERED
1		Definition, Branches of Physics
2		Vector definition classification of vectors, different laws of vectors
3		Statements of distance, displacements, momentum, force.
4		Definitions of moment of inertia, Angular momentum, Torque, rotational Kinetic energy.
5		Statements of heat, work, internal energy first law of thermodynamics.
6		Explanation of reflection, refraction, total internal reflection, interference.
7		Charge, classification of charge, Electric field intensity, potential.
8		Ampere's law, Magnetic field at the centre of circular coil Ammeter, Voltmeter.
9		Atom, Atomic number, mass number, nucleons, element significance.
10		Atomic models, Aufbau law, Pauli's exclusion principle

10-08-2017
(Dr. Dr. Maelley)

B. J.
PRINCIPAL
PRR. & VS College
VIT APJKTU 524 318.
Sri Potti Srinivasa Nellore Dt.

TIME	Monday	Tuesday	Wednesday	
11.45	Dr N MADHU	SK. NYAMATHULLA	Dr N MADHU	
TIME	Thursday	Friday	Saturday	
11.45	SK. NYAMATHULLA	Dr N.Madhu	SK. NYAMATHULLA	

EXAMINATION (2 HOURS)

Nature of question paper:-

Total Marks: 30 marks

Bridge course in physics (2023-24)

List of students (PHYSICS MAJOR)

NAME OF THE STUDENT	1/9/23	2/9/23	4/9/23	5/9/23	6/9/23	7/9/23	08/9/23	11/09/23	12/9/23	13/9/23	14/9/23
P.PENCHALA BABU	P	P	P	P	AB	P	AB	P	P	P	P
P.PREMASAGAR	AB	AB	P	P	AB	P	P	P	AB	P	P
R.NIROOPA	P	P	P	AB	P	P	P	AB	P	AB	AB
M.NIHARIKA	AB	AB	AB	P	AB	P	AB	AB	P	P	P
G.SRINADH	P	P	P	P	P	AB	P	P	AB	AB	P
M.POOJITHA	AB	P	P	AB	AB	P	AB	AB	P	P	P
D.MADHU HARIBABU	AB	P	P	AB	P	P	P	AB	AB	P	AB
N.PAVANI	P	AB	P	P	AB	P	P	P	P	P	P
T.SARATH BABU	AB	AB	AB	P	P	AB	AB	P	P	AB	P
SK.ABDUL AZEEZ	P	P	AB	AB	P	P	P	AB	AB	P	AB
S.SANTHOSH	AB	P	AB	P	AB	AB	AB	P	AB	AB	AB
Y.VOLEEVA	P	AB	P	AB	P	P	P	AB	P	P	P
SK.MOFRIN	AB	P	P	P	AB	AB	AB	P	P	AB	P
A.ESTHERU RANI	P	AB	P	P	P	AB	P	AB	P	P	P
T.VENKATA SAI	AB	P	AB	P	P	P	P	P	AB	P	AB
S.VINAY KUMAR	AB	AB	P	P	P	AB	P	AB	P	P	P

B. J. Madhu
(Dr N. MADHU)

B. J. Madhu
PRINCIPAL
PRR. & VS Govt Degree College
Vidyanagar, Nellore Dt.
Sri Potti Srinivasa Nellore Dt.

RR&VS GOVERNMENT COLLEGE, VIDAVALUR, SPSR NELLORE
DEPARTMENT OF PHYSICS
Question paper for Bridge course
(2023-24)

Time: 2hrs

Max.marks:30

Section-A

1. Any vector in an arbitrary direction can be replaced by two or three vectors
- perpendicular to each other and have the original vector as their resultant
 - Parallel to each other and have the original vector as their resultant
 - Arbitrary vectors which have original vectors as their resultant
 - It is impossible to resolve a vector

2. Angular momentum is

- A scalar vector
- An axial-vector
- A polar vector
- A displacement vector

3. Which of the following is a vector?

- Surface Tension
- Moment of Inertia
- Pressure
- None of the above

4. Which of the following is a scalar quantity?

- Acceleration
- Electric Field
- Work

d. Displacement

5. A boy walks uniformly along the sides of a rectangular park with dimensions $400\text{ m} \times 300\text{ m}$, starting from one corner to the other corner diagonally opposite. Which of the following statements is false?

- a. His displacement is 700 m
- b. His displacement is 500 m
- c. He has travelled a distance of 700 m
- d. His velocity is not uniform throughout the walk.

6. Which of the following is a vector?

- a. Surface Tension
- b. Moment of Inertia
- c. Pressure
- d. None of the above

7. Velocity is defined as _____ per time.

- a. distance
- b. displacement
- c. power
- d. acceleration

8. A body moving in a straight line has a uniform motion if it travels _____ distance in equal time intervals.

- a. equal
- b. unequal

9. Suppose a boy is moving with a uniform velocity of 10 m/s on a merry-go-round ride. Which of the following is true of the given scenario?

- a. The boy is at rest
- b. The boy is moving with no acceleration
- c. The boy is moving with accelerated motion
- d. The boy is moving with uniform velocity

10. What does the slope of the distance-time graph give?

- a. speed
- b. velocity
- c. acceleration
- d. displacement

11. What does the slope of the velocity-time graph give?

- a. speed
- b. velocity
- c. acceleration
- d. displacement

12. Which of the following is true of a free-falling body?

- a. It moves with non-uniform motion
- b. It has zero velocity
- c. It has constant non-zero acceleration
- d. It has non-uniform acceleration

13. The physical quantity that has both magnitude and direction is known as

- a. vectors
- b. scalars
- c. Both(a) and (b)
- d. Neither (a) or (b)

14. Two objects of different masses falling freely near the surface of the moon would

- a. have same velocities at any instant
- b. have different acceleration
- c. experience forces of same magnitude
- d. undergo a change in their inertia

15. What causes tidal waves in the sea?

- a. Gravitation effect on the earth by the moon.
- b. Gravitational effect on the earth by the sun.
- c. The atmospheric impact of earth.
- d. None of these.

16. What holds the atmosphere to earth?

- a. Gravity.
- b. Clouds.
- c. Winds.
- d. None of the above.

17. If the gravitational effect were to be lesser than this present effect, which other force would likely have altered?

- a. Electrostatic force.
- b. Archimedes principle.
- c. Viscous effect.
- d. None of these.

18. What is the weight of a body at the earth's centre?

- a. Zero.
- b. Same as on the surface of the earth.
- c. Less than the weight on the earth's surface.
- d. None of the above.

19. The earth and the moon are subjected to the sun's gravitational force. What does the orbit of the moon look like from the sun?

- a. Elliptical.
- b. Somewhat elliptical.
- c. Parabola.
- d. Hyperbola.

20. The distance between two masses is doubled, what happens to the gravitational force between them?

- a. Double.
- b. Half.
- c. remains the same.
- d. Decreased to a quarter.

21. Which of the following proves there is a gravitational force between the earth and the sun?
- a. Occurrence of day and night.
 - b. Earth revolving around the sun.
 - c. The sun is apparently revolving around the earth.
 - d. Falling bodies deviating towards the east.
22. What is the kinetic energy of a satellite taking time T for revolution?
- a. $1/T$
 - b. $T/3$
 - c. $2T$
 - d. $T/7$
23. Gravitational mass of a body is proportional to the gravitational of what?
- a. Field.
 - b. Intensity.
 - c. Force.
 - d. All the above.
24. Orbital velocity of a satellite is dependent on which factor when it is orbiting near the earth's surface?
- a. Mass of the satellite.
 - B. Mass of earth.
 - C. Radius of earth.
 - d. Orbital radius.
25. Kepler's second law of constancy shows the conservation of which of these following?
- a. Angular momentum.
 - b. Linear momentum.
 - c. Energy.
 - d. None of the above.
26. What is the rotational period of a geostationary satellite?
- a. 6 hours.
 - b. 12 hours.
 - c. 48 hours.

d. 24 hours.

27. What happens to the gravitational force in the centre of a circular shell that gradually decreases?
- a. It remains unchanged
 - b. It decreases
 - c. Increase
 - d. Oscillates
28. What is the relationship between the acceleration and rotation speed of a satellite, if the satellite is close to the earth?
- a. $v_e = \sqrt{2}v_0$
 - b. $v_e = \sqrt{2}v_0$
 - c. $v_0 = \sqrt{2}v_e$
 - d. $v_0 = v$
29. What happens to body weight when weight becomes 1/16 at a time. Also, consider the radius of the earth as R.
- a. 4R
 - b. 15R
 - c. 5R
 - d. 3R
30. What is the increase in physical force by mass m if the body is taken to a height of h equal to the radius of the earth?
- a. mgR
 - b. 2mgR
 - c. 12mgR
 - d. 14mgR

**PRR & VS GOVERNMENT DEGREE COLLEGE,
VIDAVALUR::SPSR NELLORE (DT)**

DEPARTMENT OF COMMERCE



BRIDGE COURSE REGISTER

1 B.COM BRIDGE COURSE - 2023-24

S.NO	Name of the Student	Course	4/9	7/9	11/9	5/9	4/9	7/9	9/9	10/9	11/9
1	A. Yeswanth	E.EI	P	Q	P	P	Q	Q	P	Q	P
2	P. Keerthi	CSE	P	Q	P	P	Q	P	P	P	P
3	T. Sunil Kumar	E.EI	P	P	P	P	Q	P	P	P	P
4	Ch. Gopinath	E.EI	P	P	P	P	Q	P	P	P	P
5	D. Ajay	CSE	P	P	P	P	Q	P	P	P	P
6	K. Naradhara	CSE	P	P	P	P	Q	P	P	P	P
7	Y. Kavya	E.EI	P	Q	P	P	Q	P	P	P	P
8	M. Sai Teja Deepak	E.EI	P	Q	P	P	Q	P	P	P	P
9	P. Jithendra	CSE	P	Q	P	P	Q	P	P	P	P
10	N. Sriyam	CSE	P	Q	P	P	Q	P	P	P	P
		Fundamental of Commerce									
		Fundamental of Business									
		Classification of Government									
		Fundamental of Trade									
		Fundamental of Economics									
		Fundamental of Taxation									
		Fundamental of Computers									
		Role of Computers in Economic									
		Fundamental of Trade-Organization									

B. *[Signature]*
 PRINCIPAL
 PRR & VS GOVT. COLLEGE
 VIDAVALUR - 524318.
 SPSR NELLORE DT.

[Signature]
 Dept. of Com

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.

(Accredited with B Grade by NAAC)



BRIDGE COURSE

(For I BSC ,I BCOM COMPUTER Students)

DEPARTMENT OF COMPUTER SCIENCE

2023-2024

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.

DEPARTMENT OF COMPUTER SCIENCE

CIRCULAR

Bridge Course for First Year Bsc , Bcom computer Students

(2023-24)

Bridge course classes will be conducted in Zero hours i.e. 4.00p.M to 5.00 p.M from 12/12/2023 to 22/12/2023 for all I year B.SC Honours(Mathematics&Physics),B.Com(CA) . The students who are academically backward in computer subjects informed to attend regularly and utilize the opportunity for up grading their subject knowledge.


Principal

PRINCIPAL
PRR & VS GOVT. COLLEGE
VIDAVALUR - 524318.
SPSR NELLORE D1.



Lecturer in-charge

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.

DEPARTMENT OF COMPUTER SCIENCE

Bridge Course for First Year Bsc and Bcom computer Students (2023-24)

Topics covered under Bridge Course

- * Recall the previous knowledge about Computer fundamentals.
- * Concepts to the Study of computer Science.
- * Apply the Knowledge to observe the field level phenomena
- * Hardware and networking concepts
- * Introduction to MSOffice fundamentals.
- * Computer science applications in society.
- * Recent trends in computer science.
- * Job opportunities in field of computers

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.

DEPARTMENT OF COMPUTER SCIENCE

Bridge Course for First Year Bsc and Beom computer Students (2023-24)

S. No.	Name of the Student	Course& Group
1	ARUMULLA PRASANNA KUMAR	I Bsc (Mathematics)
2	KATARI DIVYAVANI	I Bsc (Mathematics)
3.	PULAGALA PRATYUSHA	I Bsc (Mathematics)
4.	AKKAYYAGARI ESTHERURANI	I Bsc (Physics)
5.	DHASARI MADHUHARI BABU	I Bsc (Physics)
6.	GANDI SRINATH	I Bsc (Physics)
7.	MANCHALA NIHARIKA	I Bsc (Physics)
8.	MURUGALLA POOJITHA	I Bsc (Physics)
9.	PALLAM PREM SAGAR	I Bsc (Physics)
10.	POTLURI PENCHALA BABU	I Bsc (Physics)
11.	REVURI NIROOPA	I Bsc (Physics)
12.	SADEPALLI SANTHOSH	I Bsc (Physics)
13.	SANKE VINAY KUMAR	I Bsc (Physics)
14.	SHAIK ABDUL AZEEZ	I Bsc (Physics)
15.	SHAIK MOFRIN	I Bsc (Physics)
16.	THAMBU SARATH BABU	I Bsc (Physics)
17.	TUMMALA VENKATA SAI	I Bsc (Physics)
18.	YEGURI VOLEEVA	I Bsc (Physics)
19.	MANCHALA NIHARIKA	I Bsc (Physics)

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.

DEPARTMENT OF COMPUTER SCIENCE

Bridge Course for First Year Bsc and Bcom computer Students (2023-24)

S. No.	Name of the Student	Course& Group
1	ALURI VENU MADHAV	I BCOM (CA)
2	ANNAM YASWANTH	I BCOM (CA)
3.	CHIKKAHALLI GOPINATH	I BCOM (CA)
4.	EGA THULASI	I BCOM (CA)
5.	ELATHURU SEKHAR	I BCOM (CA)
6.	GANGAPATNAM THARUN	I BCOM (CA)
7.	GHANTASALA BALA MOHANA	I BCOM (CA)
8.	GUNNAM SANDHYADEVI	I BCOM (CA)
9.	INDURUPALLI KOTESWARA RAO	I BCOM (CA)
10.	K PRAVEEN KUMAR	I BCOM (CA)
11.	KONDURU NARENDRA	I BCOM (CA)
12.	MALLAVARAPU YEDUKONDALU	I BCOM (CA)
13.	NAVURU CHAITANYA	I BCOM (CA)
14.	POTLURU PUSHPA	I BCOM (CA)
15.	THATIPARTHI PREM KUMAR	I BCOM (CA)
16.	VAVILA AKHILA	I BCOM (CA)
23	GANGAPATNAM THARUN	I BCOM (CA)

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.

DEPARTMENT OF COMPUTER SCIENCE

Bridge Course for First Year Bsc and Bcom computer Students (2023-24)

ATTENDANCE:

S. No.	Name of the Student	12-dec	13-dec	14-dec	15-dec	16-dec	18-dec	19-dec	20-dec	21-dec	22-dec
1	ARUMULLA PRASANNA KUMAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	KATARI DIVYAVANI	✓	✓	✓	✓			✓	✓		
3.	PULAGALA PRATYUSHA	✓	✓	✓		✓	✓	✓	✓	✓	
4.	AKKAYAGARI ESTHERURANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	DHASARI MADHUHARI BABU	✓	✓	✓	✓	✓		✓	✓	✓	✓
6.	GANDI SRINATH		✓		✓		✓	✓		✓	
7.	MANCHALA NIHARIKA	✓	✓	✓	✓	✓	✓		✓	✓	✓
8.	MURUGALLA POOJITHA	✓	✓	✓	✓			✓		✓	✓
9.	PALLAM PREM SAGAR	✓	✓		✓	✓	✓		✓		
10.	POTLURI PENCHALA BABU	✓	✓	✓	✓	✓	✓	✓		✓	✓
11.	REVURI NIROOPA	✓			✓				✓	✓	
12.	SADEPALLI SANTHOSH	✓	✓	✓	✓	✓	✓	✓		✓	✓
13.	SANKE VINAY KUMAR	✓	✓	✓	✓		✓		✓	✓	
14.	SHAIK ABDUL AZEEZ		✓		✓	✓		✓		✓	✓
15.	SHAIK MOFRIN	✓		✓	✓		✓	✓	✓	✓	✓
16.	THAMBU SARATH BABU	✓	✓	✓	✓	✓	✓	✓	✓	✓	
17.	TUMMALA VENKATA SAI	✓	✓	✓	✓	✓	✓		✓	✓	✓
18.	YEGURI VOLEEVA	✓	✓	✓	✓	✓	✓	✓		✓	
26	MANCHALA NIHARIKA	✓	✓	✓		✓		✓	✓	✓	✓

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.

DEPARTMENT OF COMPUTER SCIENCE

Bridge Course for First Year Bsc and Beom computer Students (2023-24)

ATTENDANCE:

S. No.	Name of the Student	12-dec	13-dec	14-dec	15-dec	16-dec	18-dec	19-dec	20-dec	21-dec	22-dec
1	ALURI VENU MADHAV	✓	✓	✓	✓	✓	✓	✓	✓		✓
2	ANNAM YASWANTH		✓		✓	✓	✓	✓	✓	✓	✓
3.	CHIKKAHALLI GOPINATH	✓	✓	✓			✓	✓		✓	✓
4.	EGA THULASI				✓	✓	✓	✓	✓	✓	✓
5.	ELATHURU SEKHAR	✓	✓	✓	✓		✓	✓	✓	✓	✓
6.	GANGAPATNAM THARUN	✓		✓		✓	✓	✓	✓	✓	
7.	GHANTASALA BALA MOHANA	✓	✓	✓	✓	✓		✓	✓		✓
8.	GUNNAM SANDHYADEVI	✓	✓	✓	✓		✓		✓	✓	
9.	INDURUPALLI KOTESWARA RAO	✓	✓	✓		✓	✓	✓		✓	✓
10.	K PRAVEEN KUMAR	✓		✓	✓	✓			✓	✓	✓
11.	KONDURU NARENDRA	✓	✓	✓	✓		✓	✓	✓	✓	
12.	MALLAVARAPU YEDUKONDALU			✓		✓	✓				✓
13.	NAVURU CHAITANYA	✓	✓		✓	✓	✓		✓	✓	✓
14.	POTLURU PUSHPA	✓	✓	✓		✓	✓	✓	✓		✓
15.	THATIPARTHI PREM KUMAR	✓		✓	✓		✓		✓	✓	✓
16.	VAVILA AKHILA		✓	✓	✓	✓	✓	✓	✓	✓	


Signature of the lecturer



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vivo dual camera



P. V. S.
LECTURER

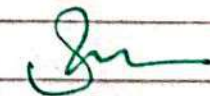
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VIDAVALUR - 624314,
SPOKANE, IDAHO 83701

BRIDGE COURSE

DEPARTMENT OF POLITICAL SCIENCE

BRIDGE COURSE FOR FIRST YEAR B.A (HEP) STUDENTS (2022-23)

S.No.	Name of the student	Course & Group B.A (HEP)	Topic covered under bridge course
1.	S. Harjeesh	"	Recall the Previous knowledge
2.	T. Karthik	"	Public administration to
3.	Y. Vishnu priya	"	Political Science
4.	P. Vishnu Varadhan	"	
5.	D. Vivekananda	"	Concepts of the Study of political Science
6.	G. Keerthi kumar	"	
7.	S. Raheem	"	Apply the knowledge to observe
8.	D. Vinod kumar	"	high level phenomena.
9.	A. sushibabu	"	
10.	D. prateethi	"	Modern approaches of political
11.	K. Gowri sankar	"	Science
12.	K. Swapna	"	
13.	K. Aswath	"	About political System
14.	P. Naveen	"	History of political System
15.	G. Sai Kiran	"	
16.	T. Sathish	"	Indian political System
17.	J. Vasanth kumar	"	present political System
18.	G. Sumanth	"	
19.	D. Alchil	"	
20.	A. Narendra	"	
21.	D. Vishnu Varadhan	"	
22.	E. Sarath babu	"	

B. 

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PRR & VS GOVT COLLEGE, VIDAVALURU
SPSR NELLORE DIST.
DEPARTMENT OF TELUGU
BRIDGE COURSE 2023- 24

With a view to enhance the comprehension in subjects we frame a bridge course to first semester B.A/B. Sc /B.Com program students, those who have come from vocational courses and other than Telugu Language. The essentials and fundamentals of Higher Secondary level subjects are necessary to understand the subject at an ease and this will lead to a better appreciation of the subject.

Objective:

The bridge course aims to act as a buffer for the new entrants with an objective to provide adequate time for the transition to hardcore of degree courses. This gives them a breather, to prepare themselves before the onset of courses for first year degree program. During this interaction with the faculty and their classmates the students will be equipped with the knowledge and the confidence needed to take on bigger challenges in future.

Design:

The course consist of 10 Hrs of interactive sessions and an internal examination designed by the Telugu department which is compulsory those students who have come from vocational back ground and other than Telugu language students. File attached below.

Syllabus :

1. తెలుగు భాష పరిచయం
2. పఠన సామర్థ్యం పెంచే సూచనలు
3. పదదోషాల్ని సరిచేయుట
4. లేఖన పద్ధతులు
5. పద్య పఠన విధానం
6. సంభి సూత్రాలు
7. సమాస స్వరూపం
8. చంధస్సు పరిచయం
9. తెలుగుకోర్సు లక్ష్యాలు
10. తెలుగు భాషను చదివించడం, రాయించడం





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B. S. S.

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Sl. No	Name of the Student	Group	Rank	2023		2024		Name of the Teacher
				19/10	21/10	19/10	20/10	
1	K. Narayana	Maths	P	P	P	P	K. Narayana	
2	K. Srinivas Kumar	Comm.	P	P	P	P	K. Srinivas Kumar	
3	M. Srinivas	Comm.	A	P	P	P	M. Srinivas	
4	K. Lakshmi Narayana	Maths	P	P	P	P	K. Lakshmi Narayana	
5	N. Srikanth	Maths	P	P	P	P	N. Srikanth	
6	A. Prasad	Comm.	P	P	P	P	A. Prasad	
7	A. Prasad Kumar	Maths	P	P	P	P	A. Prasad Kumar	

2023
2024

Signature of the Teacher

B. S. S.
Principal

B. S. S.

ప్రశ్నా పత్రం

ఈ క్రింది ప్రశ్నలకు సరైన సమాధానాన్ని గుర్తించండి 10x1 =10

1. వెళ్తున్నాను ఏ భాషాభాగం

[]

అ. సర్వ నామం

ఆ. నామవాచకం

ఇ. క్రియ

ఈ. విశేషణం

2. క్రింది దానిలో సరైన దానిని గుర్తించండి ?

[]

అ. కల

ఆ. కళ

ఇ. ఖల

ఈ. ఖళ

3. భువనేశ్వరి ఏ సంధి ?

[]

అ. గుణసంధి

ఆ. సవర్ణ దీర్ఘ సంధి

ఇ. ఉత్ప సంధి

ఈ. ఇత్ప సంధి

4. దేవాలయం ఏ సంధి ?

[]

అ. సవర్ణ దీర్ఘ సంధి

ఆ. గుణ సంధి

ఇ. వృద్ధి సంధి

ఈ. యణాదేశ సంధి

5. సరళములు ఏవి?

[]

అ. క చ ట త ప లు

ఆ. ఖ ఛ ధ ఘ లు

ఇ. గ జ డ ఢ బ లు

ఈ. ఘ ఝ ఞ ణ లు

6. ను వర్ణకం -----

[]

అ. ద్వితీయా విభక్తి ప్రత్యయం

ఆ. ప్రథమా విభక్తి ప్రత్యయం

ఇ. తృతీయా విభక్తి

ఈ. పంచమీ విభక్తి

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7.పాద పద్యములు ఏ సమాసం ?

[]

అ. తృతీయ తత్పురుష

ఆ.ద్వితీయా తత్పురుష

ఇ. ఉపమాన ఉత్తర పద కర్మ దారయ

ఈ.విశేషణ పూర్వపద కర్మ దారయ

8.రామ బాణం ఏసమాసం?

[]

అ. తృతీయ తత్పురుష

ఆ.ద్వితీయా తత్పురుష

ఇ.పంచమీ తత్పురుష

ఈ.షష్ఠీ తత్పురుష

9. ఈ క్రింది పదములో సరైన ఉచ్చారణ గల దానిని గుర్తించండి.

[]

అ.బోదన

ఆ.బోదన

ఇ.బోదన

ఈ. బోదన

10. క్రింది వాక్యం సరి అయినదా కాదా గుర్తించండి

[]

“నేను రాస్తున్నాను కలముతో”

అ.అవును

ఆ.కాదు

ఈ క్రింది ప్రశ్నలకు సమాధానం రాయండి

11. 'ఈ రోజు నేను కలాశాలకు వచ్చాను' ఈ వాక్యాన్ని సరిచేసి రాయండి

1x1=1

12. తెలుగు అచ్చులను వరుస క్రమంలో రాయండి.

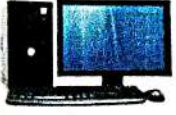
1x2=2

13. ఈ క్రింది చిత్రాలకు సరి అయిన పదాలను రాయండి

4x1=4









14. నీకు నచ్చిన పద్యమును రాయండి

1 X 3 = 3

Signature of the Lecturer

Signature of the Principal

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VIDAVALUR, SPSR NELLORE DT.



DEPARTMENT OF ZOOLOGY

BRIDGE COURSE

2023-2024

PRR & VS GOVT.COLLEGE,VIDAVALUR, SPSR NELLORE DT.

DEPARTMENT OF ZOOLOGY

Bridge Course in Zoology

CONCEPT:

Our college has large number of students entering for graduation in Science after their Intermediate I, e 10+2 classes. In spite of their good academic record students have virtually stopped studying after the month of April. During admission for B.Sc. I students has flexibility for selection of subjects like botany, zoology, chemistry, biotechnology, microbiology etc. Thus the new academic environment and the teaching methods build pressure in the minds of students. As the students are unable to cope with the pace of teaching and the new campus life in attention to concept and understanding of the subject are challenged in the very beginning itself. This affects their performance in first year end semester examination.

AIMS AND OBJECTIVES OF BRIDGE COURSE :

The bridge course is aimed to act as a buffer for the newly admitted students who were unknown to Zoology subject, with objective to provide adequate time and basic knowledge for transition to B.Sc. course. Students will be groomed for the foundation subject of Zoology. This gives them a breather, to prepare themselves before course for first year B. Sc. During this interaction with the faculty and their classmates, the students will equipped with the knowledge and the confidence needed to take on bigger challenges of carrier.

Duration of Bridge Course in Zoology : 10 days Bridge Course in Zoology

Syllabus for Bridge Course in Zoology

Paper 1

Unit 1: Introduction to systematics, taxonomy and ecology.

- 1.1. Systematics – Definition and concept, Taxonomy – Definition and hierarchy.
- 1.2. Nomenclature – ICBN and ICZN, Binomial and trinomial nomenclature.
- 1.3. Ecology – Concept of ecosystem, Biodiversity and conservation.
- 1.4. Pollution and climate change.

Unit 2: Essentials of Botany.

- 2.1. The classification of plant kingdom.
- 2.2. Plant physiological processes (Photosynthesis, Respiration, Transpiration, phytohormones).
- 2.3. Structure of flower – Micro and macro sporogenesis, pollination, fertilization and structure of mono and dicot embryos.

2.4 Mushroom cultivation, floriculture and landscaping.

Unit 3: Essentials of Zoology

3.1. The classification of Kingdom Animalia and Chordata.

3.2 Animal Physiology – Basics of Organ Systems & their functions, Hormones and Disorders

3.3 Developmental Biology – Basic process of development (Gametogenesis, Fertilization, Cleavage and Organogenesis)

3.4 Economic Zoology – Sericulture, Apiculture, Aquaculture

Unit 4: Cell biology, Genetics and Evolution

4.1. Cell theory, Ultrastructure of prokaryotic and eukaryotic cell, cell cycle.

4.2. Chromosomes and heredity – Structure of chromosomes, concept of gene.

4.3. Central Dogma of Molecular Biology.

4.4. Origin of life

Unit 5: Essentials of chemistry

5.1. Definition and scope of chemistry, applications of chemistry in daily life.

5.2. Branches of chemistry

5.3. Chemical bonds – ionic, covalent, noncovalent – Vander Waals, hydrophobic, hydrogen bonds.

5.4. Green chemistry

Paper 2

Unit 1: Essentials of Microbiology and Immunology

1.1. History and Major Milestones of Microbiology; Contributions of Edward Jenner, Louis

1.2. Pasteur, Robert Koch and Joseph Lister.

1.3. Groups of Microorganisms – Structure and characteristics of Bacteria, Fungi, Archaea

1.4. and Virus. Applications of microorganisms in – Food, Agriculture, Environment, and Industry.

1.4. Immune system – Immunity, types of immunity, cells and organs of immune system.

Unit 2: Essentials of Biochemistry

2.1. Biomolecules I – Carbohydrates, Lipids.

2.2. Biomolecules II – Amino acids & Proteins.

2.3. Biomolecules III – Nucleic acids -DNA and RNA.

2.4. Basics of Metabolism – Anabolism and catabolism. Unit 3: Essentials of Biotechnology

3.1. History, scope, and significance of biotechnology. Applications of biotechnology in Plant, Animal, Industrial and Pharmaceutical sciences.

3.2. Environmental Biotechnology – Bioremediation and Biofuels, Biofertilizers and Biopesticides.

3.3. Genetic engineering – Gene manipulation using restriction enzymes and cloning vectors; Physical, chemical, and biological methods of gene transfer

3.4. Transgenic plants – Stress tolerant plants (biotic stress – BT cotton, abiotic stress – salt tolerance). Transgenic animals – Animal and disease models.

Unit 4: Analytical Tools and techniques in biology – Applications

4.1. Applications in forensics – PCR and DNA fingerprinting

4.2. Immunological techniques – Immunoblotting and ELISA.

4.3. Monoclonal antibodies – Applications in diagnosis and therapy.

4.4. Eugenics and Gene therapy Unit 5: Biostatistics and Bioinformatics

5.1. Data collection and sampling. Measures of central tendency – Mean, Median, Mode.

5.2. Measures of dispersion – range, standard deviation and variance. Probability and

PRR & VS GOVT.COLLEGE,VIDAVALUR, SPSR NELLORE DT.**DEPARTMENT OF Zoology****QUESTION PAPER FOR BRIDGE COURSE****TIME :2hrs****Max.Marks:50****SECTION –A**

1. The physical basis of life is
 - (A) Protoplasm
 - (B) Cell
 - (C) Food
 - (D) Nucleus
2. The term 'ecosystem' was enunciated by
 - (A) A.G. Tansley
 - (B) E.P. Odum
 - (C) G. Mendal
 - (D) C.C. Park
3. The word 'Ecology' was coined in 1866 by
 - (A) Ernst Haeckel
 - (B) Charles Darwin
 - (C) Robert Whittaker
 - (D) Arthur Tansley
4. Which one of the following is a part of Geological cycle?
 - (A) Hydrological cycle
 - (B) Nitrogen cycle
 - (C) Hydrogen cycle
 - (D) Carbon cycle
5. Global warming is caused due to the emission of
 - (A) Hydrocarbon
 - (B) Carbon monoxide
 - (C) Carbon dioxide
 - (D) Nitrogen
6. The Ozone layer restricts
 - (A) Ultraviolet radiation
 - (B) X-rays and Gamma rays

- (C) Infrared radiation
- (D) Visible light

7. Which of the following is not a true amphibian animal?

- (A) Tortoise
- (B) Frog
- (C) Toad
- (D) Salamander

8. Human cell has

- (A) 21 pairs of chromosomes
- (B) 22 pairs of chromosomes
- (C) 23 pairs of chromosomes
- (D) 24 pairs of chromosome

9. Poison of snake can be removed by injecting

- (A) Antivenom
- (B) Penicillin
- (C) Insulin
- (D) Saline

10. The tubular structures of the kidney are called

- (A) Bowman's capsule
- (B) Nephrons
- (C) Malpighian
- (D) Nephrons

11. Of the following which one is a poisonous snake?

- (A) Eryx Johni
- (B) Rat snake
- (C) Green snake
- (D) Sea snake

12. The excretory organ of earthworm is

- (A) Ciltellum
- (B) Nephridium
- (C) Gizzard
- (D) Spermatheca

13. The shape of Amoeba is
- (A) Irregular
 - (B) Rectangular
 - (C) Conical
 - (D) None of these
14. Which of the following vitamins are night blindness?
- (A) Vitamin A
 - (B) Vitamin B
 - (C) Vitamin D
 - (D) Vitamin E
15. The A, B, O blood groups were discovered by
- (A) Gregor Mendel
 - (B) Watson
 - (C) Charles Darwin
 - (D) Karl Landsteiner
16. Malaria is caused by
- (A) Protozoa
 - (B) Fungi
 - (C) Virus
 - (D) Bacteria
17. The branch of the science dealing with the study of human skin is called
- (A) Anatomy
 - (B) Dermatology
 - (C) Bio-chemistry
 - (D) Physiology
18. Human heart contains
- (A) 2 chambers
 - (B) 3 chambers
 - (C) 4 chambers
 - (D) No chamber

19. Who are more likely to get tapeworm?
- (A) Fish eaters
 (B) Meat eaters
 (C) Pork eaters
 (D) Beef eaters
20. It is called as Farmer's friend
- (A) Roundworm
 (B) Earthworm
 (C) Hookworm
 (D) Pinworm
21. All of the following foods lack Vitamin C except
- (A) Milk
 (B) Cheese
 (C) Meat
 (D) Rice

SECTION –B

1. What are the branches of Zoology
2. Enumerate the General characters of protozoa.
3. Differentiate between Annelids and arthropoda
4. What are molluscan animals? give examples
5. What is Microbiology?
6. Explain briefly about the applications of Biotechnology



Faculty members taking classes for newly joined students



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