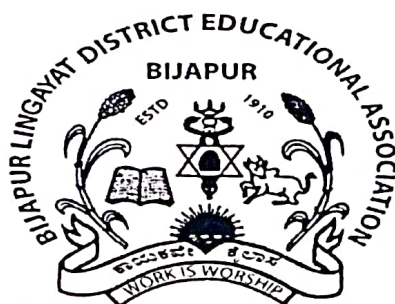


BLDE ASSOCIATION'S
S.B.ARTS AND K.C.P SCIENCE COLLEGE,
VIJAYAPUR



DEPARTMENT OF MATHEMATICS
ADVANCED LEARNERS SEMINAR REPORT
2023-24 (ODD SEMESTER)

Guidelines for identifying Advanced Learners (bright Students):

Advanced Learners are identified based on the first internal examinations those who secured greater than 80%.

Following Special activities are conducted for Advanced Learners:

1. Guiding for carrier planning.
2. Discussion of seminar on the advanced topic.
3. Guiding and encouraging communicating research papers in conference /Journals.
4. Encourage to participate in various symposiums like quiz, conference etc.



B. L. D. E. ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE
VIJAYAPUR
DEPARTMENT OF MATHEMATICS



Date: 01/02/2024

NOTICE

The UG Department of Mathematics will be conducting seminar for the B.Sc I, III, V Semester students (Advance learners) of the Academic year 2023-24(Odd Semester) from 05/02/2024 to 08/02/2024 during regular classes.

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Department of Mathematics
S.B. Arts & K.C.P. Science College
VIJAYAPUR

IQAC Coordinator

IQAC, Co-ordinator
S.B. Arts & K.C.P. Science College,
Vijayapur.

Principal,
S.B. Arts & K.C.P. Science College,
Vijayapur.

List of Advanced Learners

SI. NO	UUCMS. NO	NAME OF THE STUDENTS	B.SC
1	U15KM23S0191	Ambika Sankh	I
2	U15KM23S0067	Aishwarya	I
3	U15KM23S0071	Danamma Bidari	I
4	U15KM23S0132	Anita Ankalagi	I
5	U15KM23S0157	Priya Madar	I
6	U15KM23S0209	Rukmini Darveshi	I
7	U15KM23S0213	Bhagyashree	I
8	U15KM23S0243	Bhagyashree	I
9	U15KM23S0302	Kaveri Hullur	I
11	U15KM23S0367	Priyanka	I
12	U15KM23S0366	Sneha Katti	I
13	U15KM22S0001	Kaveri Melinakeri	III
14	U15KM22S0005	Sakshi Ajur	III
15	U15KM22S0009	Suma Hitnalli	III
16	U15KM22S0022	Bhagyashree	III
17	U15KM22S0026	Sushmita	III
18	U15KM22S0060	Mahadevi B Patil	III
19	U15KM22S0098	Sangeeta Kirasur	III
20	U15KM22S0102	Swati Chavhan	III
21	U15KM22S0128	Bhagyashree	III
22	U15KM22S0130	Abhishek Rathod	III
23	U15KM22S0137	Ningaraddy	III
24	U15KM22S0153	Jayashree	III
25	U15KM22S0162	Akshata Badagi	III
26	U15KM22S0165	Arpita Sajjan	III
27	U15KM22S0167	Shivaleela	III
28	U15KM22S0179	Asharani Bhali	III
29	U15KM22S0180	Bhoomika	III
30	U15KM22S0221	Abdul Yadagiri	III
31	U15KM22S0224	Sahana Sajjan	III
32	U15KM22S0294	Danamma Poojari	III
33	U15KM22S0305	Pooja Ashok Katti	III
34	U15KM22S0311	Amruta Shiroor	III

35	U15KM22S0312	Revati Nesur	III
36	U15JU22S0058	Prema Bagalkot	III
37	U15KM21S0001	Krupa Biradar	V
38	U15KM21S0026	Sabale Diksheetsa	V
39	U15KM21S0043	Nikita Biradar	V
40	U15KM21S0097	Bhuvaneshwari	V
41	U15KM21S0163	Prajwal Aihole	V
42	U15KM21S0289	Annaray Bhavikatti	V
43	U15KM21S0315	Prema S	V
44	U15KM21S0339	Bhagyanidhi	V
45	U15KM21S0366	Savita Bilijadar	V
46	U15KM21S0370	Kashibai Pujari	V
47	U15KM21S0372	Spoorti Siddapur	V
48	U15KM21S0384	Shruti Pujari	V
49	U15KM21S0389	Nagaveni Harawal	V
50	U15KM21S0390	Aishwarya	V
51	U15KM21S0396	Vidya Biradar	V
52	U15KM21S0412	Vishal Sarur	V
53	U15KM21S0471	Madhubaratagi	V
54	U15KM21S0506	Ragini Dwivedi	V
55	U15KM21S0562	Tejashwini	V
56	U15MY21S0086	Pooja	V



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S.B. Arts & KCP. Sc. College,
Vijayapur.

Seminar topics

Sl. NO	UUCMS. NO	NAME OF THE STUDENTS	B.SC	TOPIC NAME	DATE
1	U15KM23S0191	Ambika Sankh	I	Pedal equation.	05-02-2024
2	U15KM23S0067	Aishwarya	I	Rolles theorem.	05-02-2024
3	U15KM23S0071	Danamma Bidari	I	Algebra of limits.	05-02-2024
4	U15KM23S0132	Anita Ankalagi	I	Angle between radius vector and tangent.	05-02-2024
5	U15KM23S0157	Priya Madar	I	Matrix and types.	06-02-2024
6	U15KM23S0209	Rukmini Darveshi	I	Angle between radius vector and tangent.	06-02-2024
7	U15KM23S0213	Bhagyashree	I	Rolles theorem.	06-02-2024
8	U15KM23S0243	Bhagyashree	I	Lagranges mean value theorem.	06-02-2024
9	U15KM23S0302	Kaveri Hullur	I	Leibnitzs theorem.	07-02-2024
11	U15KM23S0367	Priyanka	I	Lagranges mean value theorem.	07-02-2024
12	U15KM23S0366	Sneha Katti	I	Leibnitzs theorem.	08-02-2024
13	U15KM22S0001	Kaveri Melinakeri	III	Standard form of Particular integral.	05-02-2024
14	U15KM22S0005	Sakshi Ajour	III	Cauchys 1 nd theorem on limits.	05-02-2024
15	U15KM22S0009	Suma Hitnalli	III	Exact differential equation.	05-02-2024
16	U15KM22S0022	Bhagyashree	III	Standard form of Particular integral.	05-02-2024
17	U15KM22S0026	Sushmita	III	Cauchys 2 nd theorem on limits .	06-02-2024
18	U15KM22S0060	Mahadevi B Patil	III	Equation reducible to exact by finding a suitable integrating factor.	06-02-2024
19	U15KM22S0098	Sangeeta Kirasur	III	Exact differential equation.	06-02-2024
20	U15KM22S0102	Swati Chavhan	III	D'Alemberts ratio test.	06-02-2024
21	U15KM22S0128	Bhagyashree	III	Exact differential equation.	07-02-2024
22	U15KM22S0130	Abhishek Rathod	III	D'Alemberts ratio test.	07-02-2024
23	U15KM22S0137	Ningaraddy	III	Exact differential equation.	07-02-2024
24	U15KM22S0153	Jayashree	III	Particular integral in linear differential equations with constant coefficients.	07-02-2024
25	U15KM22S0162	Akshata Badagi	III	Rules for finding complementary function.	08-02-2024
26	U15KM22S0165	Arpita Sajjan	III	Exact differential equation.	08-02-2024
27	U15KM22S0167	Shivaleela	III	Exact differential equation.	08-02-2024
28	U15KM22S0179	Asharani Bhali	III	Exact differential equation.	08-02-2024
29	U15KM22S0180	Bhoomika	III	Necessary and sufficient conditions for exact differential equations.	08-02-2024
30	U15KM22S0221	Abdul Yadagiri	III	Exact differential equation.	08-02-2024
31	U15KM22S0224	Sahana Sajjan	III	Rules for finding complementary function.	09-02-2024
32	U15KM22S0294	Danamma Poojari	III	Particular integral when $\frac{1}{f(D)} e^{ax} = \frac{1}{f(a)} e^{ax}$, if $f(a) \neq 0$	08-02-2024

33	U15KM22S0305	Pooja Katti	III	Sequence and convergent sequence	09-02-2024
34	U15KM22S0311	Amruta Shiroom	III	Exact differential equation.	09-02-2024
35	U15KM22S0312	Revati Nesur	III	Reducible to variable-seperable method.	09-02-2024
36	U15JU22S0058	Prema Bagalkot	III	Sequence and convergent sequence.	09-02-2024
37	U15KM21S0001	Krupa Biradar	V	Vector algebra & scalar field.	05-02-2024
38	U15KM21S0026	Sabale Diksheetsa	V	Problems on divergence & curl of vector function.	05-02-2024
39	U15KM21S0043	Nikita Biradar	V	Problems on cylinder.	05-02-2024
40	U15KM21S0097	Bhuvaneshwari	V	Cauchys integral theorem.	05-02-2024
41	U15KM21S0163	Prajwal Aihole	V	Examples on Greens theorem.	06-02-2024
42	U15KM21S0289	Annaray Bhavikatti	V	Vector algebra & scalar.	06-02-2024
43	U15KM21S0315	Prema S	V	First mean value theorem.	06-02-2024
44	U15KM21S0339	Bhagyanidhi	V	Examples on Greens theorem	06-02-2024
45	U15KM21S0366	Savita Bilijadar	V	Milnes Thomson method.	07-02-2024
46	U15KM21S0370	Kashibai Pujari	V	Convergence of improper integrals.	07-02-2024
47	U15KM21S0372	Spoorti Siddapur	V	Construction of analytic function & complex integration	07-02-2024
48	U15KM21S0384	Shruti Pujari	V	Harmonic functions.	07-02-2024
49	U15KM21S0389	Nagaveni Harawal	V	Condition for orthogonality.	07-02-2024
50	U15KM21S0390	Aishwarya	V	Necessary & sufficient condition for alalytic function.	08-02-2024
51	U15KM21S0396	Vidya Biradar	V	Equation of sphere with cetre&radius.	08-02-2024
52	U15KM21S0412	Vishal Sarur	V	Riemann integrability&integrability of a continuous function .	08-02-2024
53	U15KM21S0471	Madhubaratagi	V	Bilinear transformation.	08-02-2024
54	U15KM21S0506	Ragini Dwivedi	V	Harmonic conjugate.	08-02-2024
55	U15KM21S0562	Tejashwini	V	Improper integral.	08-02-2024
56	U15MY21S0086	Pooja	V	Touching spheres.	08-02-2024



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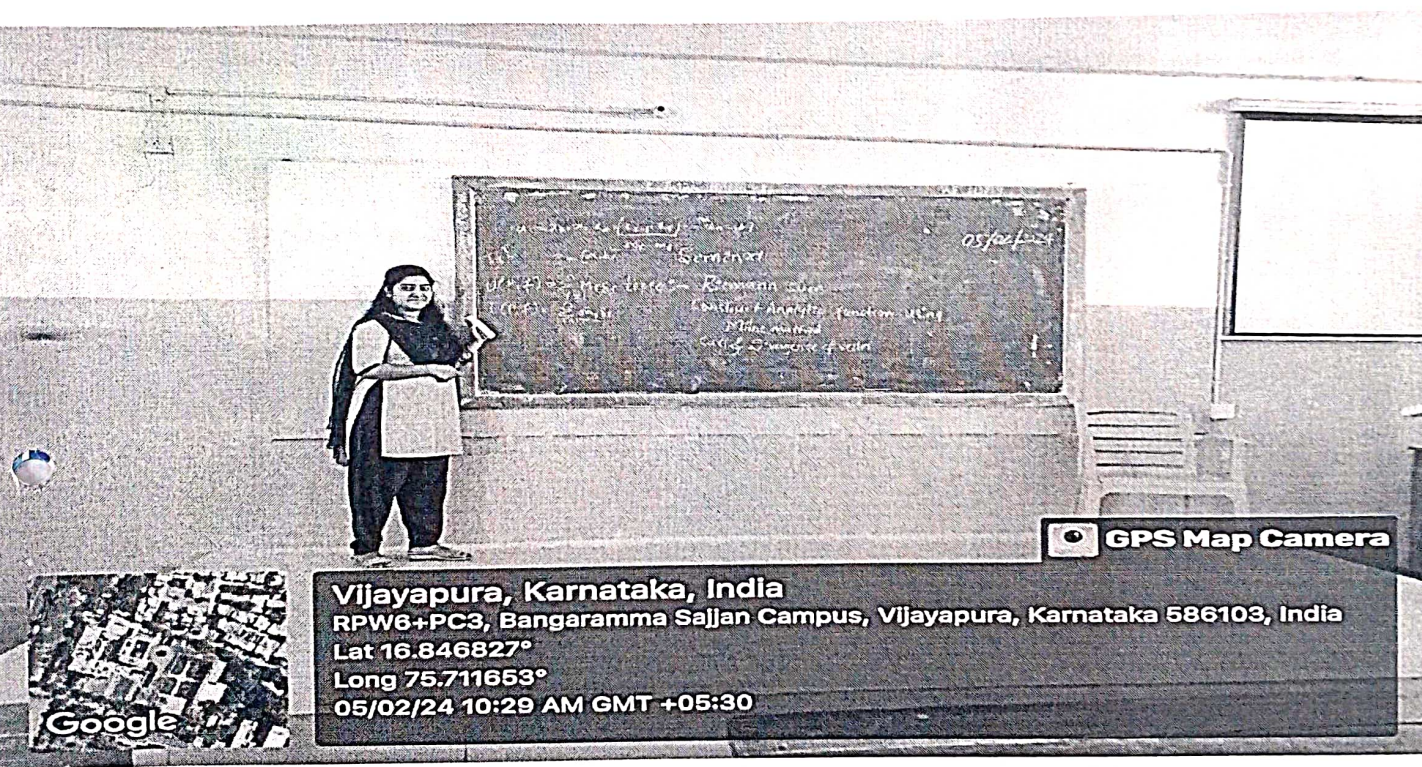
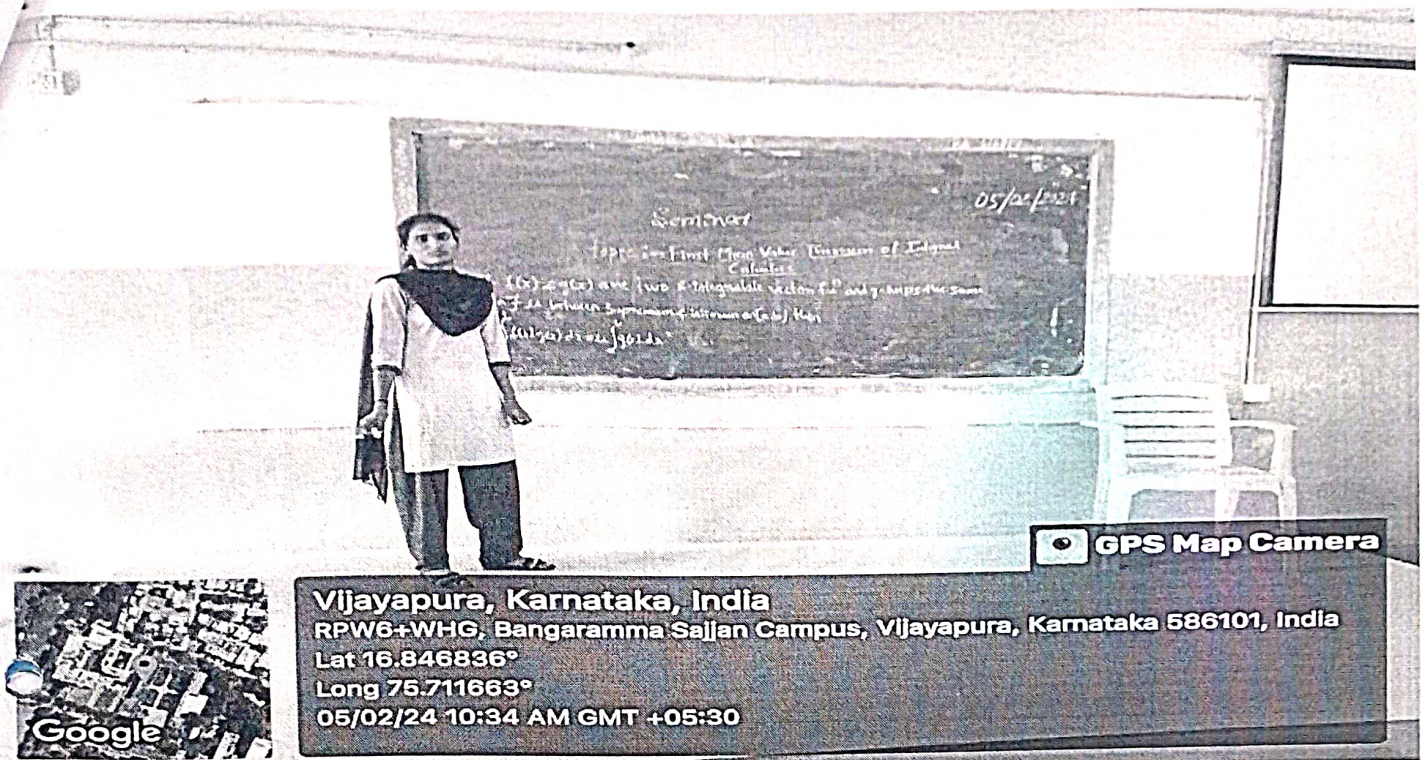
Department of Mathematics
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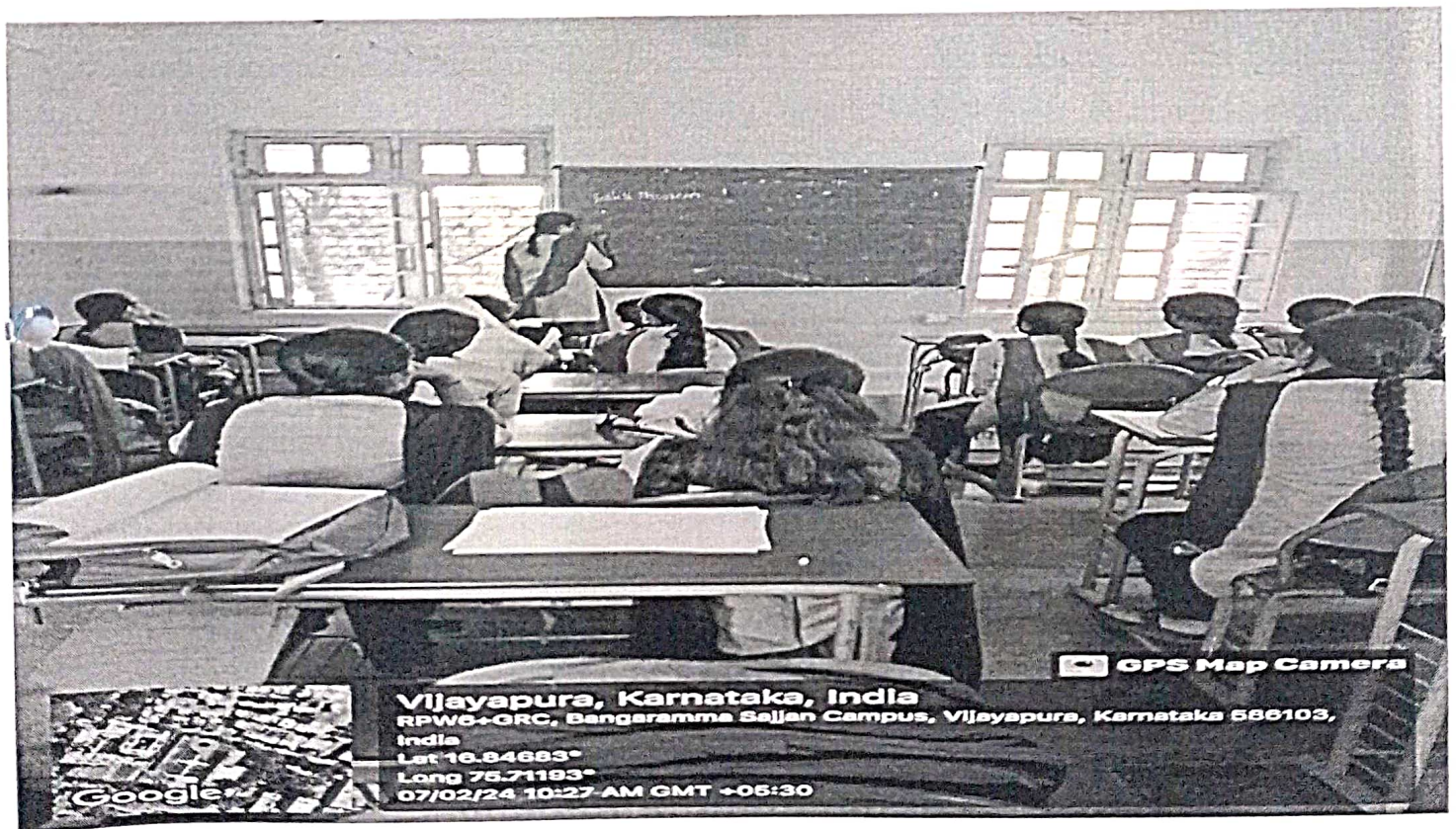
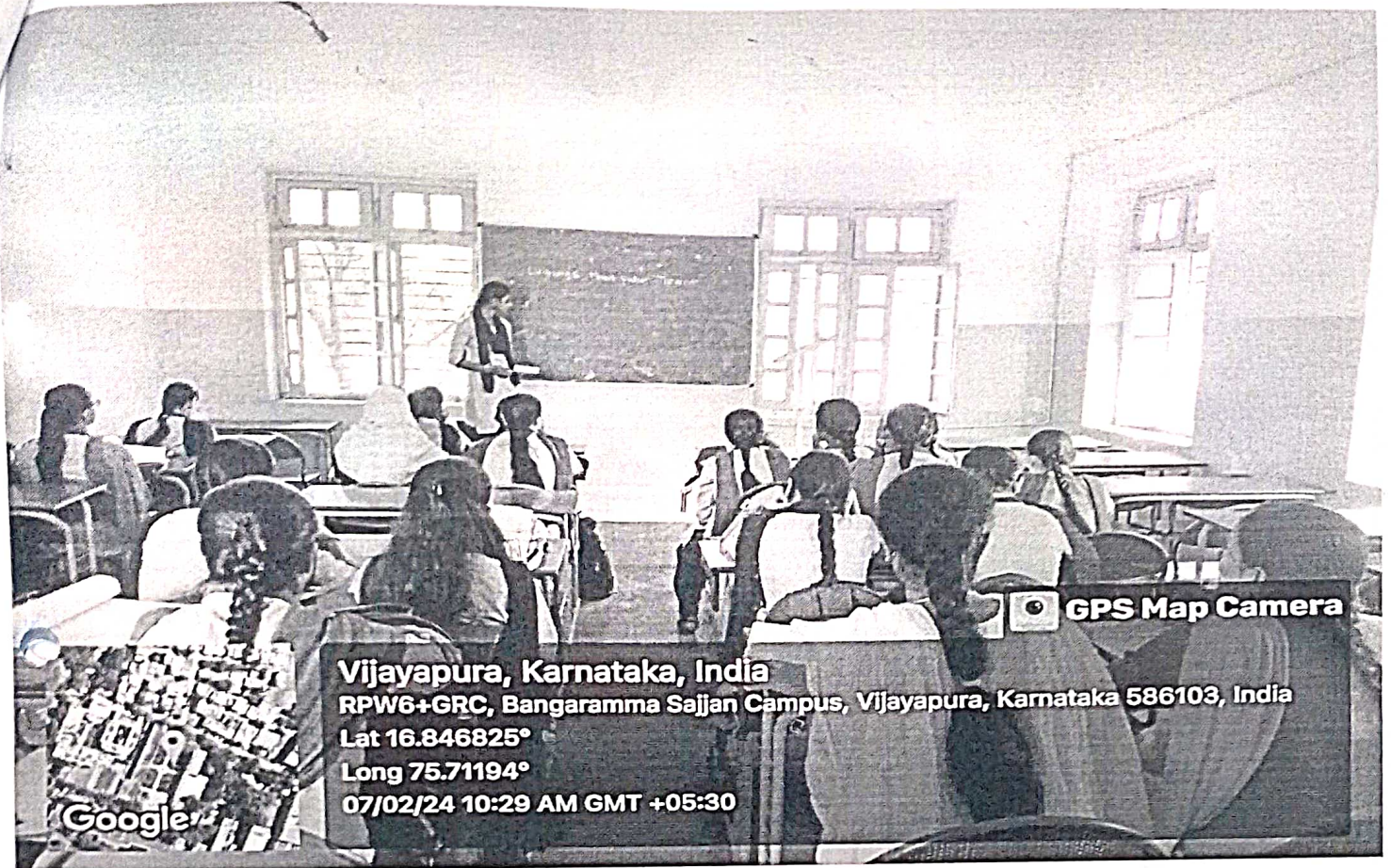
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Vijayapur.



Advanced learner students giving their seminars



Advanced learner students giving their seminars



Advanced learner students giving their seminars

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MOD
 Department of Mathematics
 S.B. Arts & K.C.P. Science College
 VIJAYAPUR

[Signature]
IQAC Co-ordinator
 S.B. Arts & K.C.P. Science College,
 Vijayapur.

[Signature]
Principal,
 S.B. Arts & K.C.P. Sc. College,
 Vijayapur.

S.B. Arts and K.C.P Science College VIJAYAPUR

Name: Bhagyashree - Samagond

Class: BSc 1st sem

UUCMS NO: WSKM23502U3

Subject: Maths Seminar

DEPARTMENT OF MATHEMATICS

SEMINAR ON

LAGRANGE'S MEAN VALUE THEOREM

Lagrange's Mean Value Theorem

Let $f(x)$ be a function that satisfies the following two conditions.

- (i) $f(x)$ is continuous on $[a, b]$
- (ii) $f(x)$ is differentiable on (a, b) then there exist at least one point $c \in (a, b)$ such that

$$f'(c) = \frac{f(b) - f(a)}{b - a}$$

Proof = Define a function $g(x) = f(x) - Ax \quad \forall x \in [a, b]$

Where A is a constant to be determined such that

$$g(a) = g(b)$$

$$f(a) - Aa = f(b) - Ab$$

$$Ab - Aa = f(b) - f(a)$$

$$A(b - a) = f(b) - f(a)$$

$$A = \frac{f(b) - f(a)}{b - a} \quad \text{--- (1)}$$

Since $f(x)$ is continuous on $[a, b]$ & differentiable on (a, b)

$g(x)$ is also continuous in $[a, b]$ & differentiable (a, b)
also $g(a) = g(b)$

hence $g(x)$ satisfies three conditions of Rolle's theorem $\therefore$ there exist at least one point $c \in (a, b)$

such that $g'(c) = 0$

$$g'(x) = f'(x) - A$$

$$g'(c) = f'(c) - A$$

$$f'(c) - A = 0$$

$$A = f'(c) \quad \text{--- (2)}$$

from equation (1) & (2)

$$f'(c) = \frac{f(b) - f(a)}{b - a}$$

Example

1) Verify Lagrange's Mean value theorem examples

$$f(x) = (x+1)(x+2) \text{ in } [1, 2]$$

$$\begin{aligned} \text{let } f(x) &= x^2 + 2x + x + 2 \\ &= x^2 + 3x + 2 \end{aligned}$$

i) $f(x) = x^2 + 3x + 2$ is a polynomial in x it is continuous for every value of x
 $\Rightarrow f(x)$ is it on $[1, 2]$

ii) Derivative $f'(x) = 2x + 3$ exist in $(1, 2)$
 $\Rightarrow f(x)$ is differentiable on $(1, 2)$

hence $f(x)$ satisfies two conditions of Lagrange's Mean value theorem

$\therefore \exists$ at least one point $c \in (a, b)$
such that $f'(c) = \frac{f(b) - f(a)}{b - a}$

$$f(b) = f(2) = 4 + 6 + 2 = 12$$

$$f(a) = f(1) = 1 + 3 + 2 = 6$$

$$f'(c) = 2c + 3$$

$$2c+3 = \frac{12-6}{2-1}$$

$$2c+3 = \frac{6}{1} = 6$$

$$2c+3 = 6$$

$$2c = 3$$

$$c = \frac{3}{2} \in (1, 2)$$

2) Verify Lagrange's Mean Value theorem

$$f(x) = (x-1)(x-2)(x-3) \text{ in } [0, 4]$$

$$\begin{aligned} \text{let } f(x) &= (x^2 - 2x - x + 2)(x-3) \\ &= (x^2 - 3x + 2)(x-3) \\ &= x^3 - 3x^2 - 3x^2 + 9x + 2x - 6 \end{aligned}$$

$$f(x) = x^3 - 6x^2 + 11x - 6$$

(i) $f(x) = x^3 - 6x^2 + 11x - 6$ is polynomial in x it is continuous for every value of x

$\Rightarrow f(x)$ is continuous on $[0, 4]$

(ii) Derivative $f'(x) = 3x^2 - 12x + 11$ exist in $(1, 2)$

$\Rightarrow f(x)$ is differentiable on $(1, 2)$

hence $f(x)$ satisfies two conditions of Lagrange's theorem

$\therefore$ $\exists$ at least one point $c \in (a, b)$

$$\text{such that } f'(c) = \frac{f(b) - f(a)}{b - a}$$

$$\begin{aligned} f(b) &= f(4) = (4)^3 - 6(4)^2 + 11(4) - 6 \\ &= 64 - 96 + 44 - 6 \\ &= 108 - 102 \\ &= 6 \end{aligned}$$

$$f(a) = f(0) = 0 - 6(0) + 11(0) - 6 \\ = -6$$

$$f'(c) = 3c^2 - 12c + 11$$

$$f'(c) = \frac{f(b) - f(a)}{b - a}$$

$$3c^2 - 12c + 11 = \frac{6 - (-6)}{4 - 0}$$

$$3c^2 - 12c + 11 = \frac{12}{4} = 3$$

$$3c^2 - 12c + 8 = 0$$

$$c = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\text{Put } a = 3 \quad b = -12 \quad c = 8$$

$$c = \frac{-(-12) \pm \sqrt{144 - 4 \times 3 \times 8}}{2 \times 3}$$

$$= \frac{12 \pm \sqrt{48}}{6}$$

$$= \frac{12 \pm \sqrt{16 \times 3}}{6}$$

$$\boxed{c = \frac{12 \pm 4\sqrt{3}}{6}} //$$

or

$$c = \frac{4(3 \pm \sqrt{3})}{6}$$

$$\boxed{c = \frac{6 \pm 2\sqrt{3}}{3}} //$$



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VIJAYAPUR
DEPARTMENT OF MATHEMATICS



Date: 09/02/2024

Seminar Attendance sheet

SI. NO	UUCMS. NO	NAME OF THE STUDENTS	B.SC	Signature
1	U15KM23S0191	Ambika Sankh	I	A. J. S.
2	U15KM23S0067	Aishwarya	I	A. B. M.
3	U15KM23S0071	Danamma Bidari	I	D. M. Bidari
4	U15KM23S0132	Anita Ankalagi	I	A. G. Ankalggi
5	U15KM23S0157	Priya Madar	I	Priya.
6	U15KM23S0209	Rukmini Darveshi	I	R.R.
7	U15KM23S0213	Bhagyashree	I	Bhagyashree.
8	U15KM23S0243	Bhagyashree	I	B. S. C.
9	U15KM23S0302	Kaveri Hullur	I	K. H. S.
11	U15KM23S0367	Priyanka	I	P. S. H.
12	U15KM23S0366	Sneha Katti	I	S. S. Katti
13	U15KM22S0001	Kaveri Melinakeri	III	K. M.
14	U15KM22S0005	Sakshi Ajour	III	Sakshi.
15	U15KM22S0009	Suma Hitnalli	III	S. H.
16	U15KM22S0022	Bhagyashree	III	Bhagyashree.
17	U15KM22S0026	Sushmita	III	S. G. Jangamshetti.
18	U15KM22S0060	Mahadevi B Patil	III	M. B. Patil
19	U15KM22S0098	Sangeeta Kirasur	III	S. K.
20	U15KM22S0102	Swati Chavhan	III	Swati.
21	U15KM22S0128	Bhagyashree	III	Bhagyashree.
22	U15KM22S0130	Abhishek Rathod	III	A. R.
23	U15KM22S0137	Ningaraddy	III	N. R.
24	U15KM22S0153	Jayashree	III	J. S.
25	U15KM22S0162	Akshata Badagi	III	A. R. Badagi
26	U15KM22S0165	Arpita Sajjan	III	A. S.
27	U15KM22S0167	Shivaleela	III	S. R. N.
28	U15KM22S0179	Asharani Bhali	III	A. B.
29	U15KM22S0180	Bhoomika	III	Bhoomika.

30	U15KM22S0221	Abdul Yadagiri	III	Abdul
31	U15KM22S0224	Sahana Sajjan	III	Sahana
32	U15KM22S0294	Danamma Poojari	III	Danamma
33	U15KM22S0305	Pooja Ashok Katti	III	Pooja
34	U15KM22S0311	Amruta Shiroor	III	Amruta
35	U15KM22S0312	Revati Nesur	III	Revati
36	U15JU22S0058	Prema Bagalkot	III	Prema
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42	U15KM21S0289	Annaray Bhavikatti	V	Annaray
43	U15KM21S0315	Prema S	V	Prema
44	U15KM21S0339	Bhagyanidhi	V	Bhagyanidhi
45	U15KM21S0366	Savita Bilijadar	V	Savita
46	U15KM21S0370	Kashibai Pujari	V	Kashibai
47	U15KM21S0372	Spoorti Siddapur	V	Spoorti
48	U15KM21S0384	Shruti Pujari	V	Shruti
49	U15KM21S0389	Nagaveni Harawal	V	Nagaveni
50	U15KM21S0390	Aishwarya	V	Aishwarya
51	U15KM21S0396	Vidya Biradar	V	Vidya
52	U15KM21S0412	Vishal Sarur	V	Vishal
53	U15KM21S0471	Madhubaratagi	V	Madhubaratagi
54	U15KM21S0506	Ragini Dwivedi	V	Ragini
55	U15KM21S0562	Tejashwini	V	Tejashwini
56	U15MY21S0086	Pooja	V	Pooja


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Vijayapur.



B. L. D. E. ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE
VIJAYAPUR
DEPARTMENT OF MATHEMATICS



Date: 08/02/2024

Seminar Report

The Department of Mathematics conducted the seminars for Advance Learners of B.Sc I, III, and V semester. Students given seminars on the chapters covered in their syllabus, each student given 10 minutes for the topic which covers 8 minutes for seminar and 2 minutes for discussion.

The objective of conducting the seminars was to help the students that to improve their communication skills, knowledge and to reduce stage fear for the students.


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Department of Mathematics
B. Arts & K. C. P. Science College
VIJAYAPUR



IQAC Coordinator

IQAC, Co-ordinator

S. B. Arts & K. C. P. Science College,
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Principal

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S. B. Arts & K. C. P. Sc. College,
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BLDE ASSOCIATION'S
S.B.ARTS AND K.C.P SCIENCE COLLEGE,
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DEPARTMENT OF MATHEMATICS
ADVANCED LEARNERS SEMINAR REPORT
2023-24 (EVEN SEMESTER)

Guidelines for identifying Advanced Learners (bright Students):

Advanced Learners are identified based on the first internal examinations those who secured greater than 80%.

Following Special activities are conducted for Advanced Learners:

1. Guiding for carrier planning.
2. Discussion of seminar on the advanced topic.
3. Guiding and encouraging communicating research papers in conference /Journals.
4. Encourage to participate in various symposiums like quiz, conference etc.



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S. B. ARTS AND K. C. P. SCIENCE COLLEGE
VIJAYAPUR
DEPARTMENT OF MATHEMATICS



Date: 27/07/2024

NOTICE

The UG Department of Mathematics will be conducting seminar for the B.Sc II, IV, VI Semester students (Advanced learners) of the Academic year 2023-24(Even Semester) from 29/07/2024 to 08/08/2024 during regular classes.

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**Department of Mathematics
S.B. Arts & K.C.P. Science College
VIJAYAPUR**

IQAC Coordinator

**IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College
Vijayapur.**

Principal

*Principal,
S.B.Arts & KCP. Sc. College
Vijayapur.*

Advanced Learners List

Sl. NO	UUCMS. NO	NAME OF THE STUDENTS	B.SC
1	U15KM23S0017	Kumar Biradar	II
2	U15KM23S0020	Samiya Kazi	II
3	U15KM23S0028	Bhagyashri Indi	II
4	U15KM23S0067	Aishwarya Managuli	II
5	U15KM23S0071	Danamma Bidari	II
6	U15KM23S0099	Vishnu K	II
7	U15KM23S0157	Priya Madar	II
8	U15KM23S0158	Vidyashree Korachgaon	II
9	U15KM23S0168	Vilasmati Biradar	II
11	U15KM23S0174	Vaishnavi Kodabagi	II
12	U15KM23S0197	Bagali Yashawant	II
13	U15KM23S0209	Rukmini Darveshi	II
14	U15KM23S0211	Pallavi Mathapati	II
15	U15KM23S0213	Bhagyashree Choudhari	II
16	U15KM23S0226	Hattale Jayalaxmi	II
17	U15KM23S0243	Bhagyashree Samagond	II
18	U15KM23S0244	Suchitra Kumbar	II
19	U15KM23S0250	Soumya Lakkanagaon	II
20	U15KM23S0275	Vachana	II
21	U15KM23S0276	Soujanya Jyoti	II
22	U15KM23S0302	Kaveri Hullur	II
23	U15KM23S0303	Aishwarya Maled	II
24	U15KM23S0349	Aishwarya Asangihal	II
25	U15KM23S0358	Lakshmi Patil	II
26	U15KM23S0359	Satish Pujari	II
27	U15KM23S0379	Tabassum Benni	II
28	U15KM22S0259	Swati Bisanal	IV
29	U15KM22S0273	Rashmi	IV
30	U15KM22S0294	Danamma Poojari	IV
31	U15KM22S0305	Pooja Ashok Katti	IV
32	U15KM22S0311	Amruta Shiroor	IV
33	U15KM22S0312	Revati Nesur	IV
34	U15JU22S0058	Prema Bagalkot	IV
35	U15KM22S0221	Abdul Yadagiri	IV
36	U15KM22S0222	Shrishail Pujari	IV
37	U15KM22S0224	Sahana Sajjan	IV
38	U15KM22S0225	Sheetal Kadamani	IV

39	U15KM22S0192	Shubhangi Biradar	IV
40	U15KM22S0180	Bhoomika Kondaguli	IV
41	U15KM22S0180	Bhoomika Kondaguli	IV
42	U15KM22S0171	Sateesh Hunalli	IV
43	U15KM22S0164	Laxmi Biradar	IV
44	U15KM22S0165	Arpita Sajjan	IV
45	U15KM22S0167	Shivaleela Nalatawad	IV
46	U15KM22S0162	Akshata Badagi	IV
47	U15KM22S0149	Duradundayya Math	IV
48	U15KM22S0153	Jayashree	IV
49	U15KM22S0158	Shweta Hunasagi	IV
50	U15KM22S0137	Ningaraddy	IV
51	U15KM22S0125	Sahana Mallappagol	IV
52	U15KM22S0115	Preeti Keshav	IV
53	U15KM22S0108	Shailashree Kanashetti	IV
54	U15KM22S0102	Swati Chavhan	IV
55	U15KM22S0022	Bhagyashree Mathapati	IV
56	U15KM22S0024	Madhumati Kalagond	IV
57	U15KM22S0001	Kaveri Melinakeri	IV
58	U15KM22S0009	Suma Hitnalli	IV
59	U15KM21S0001	Krupa Mahadev Biradar	VI
60	U15KM21S0011	Aishwarya Sharanabasappa Ghanure	VI
61	U15KM21S0023	Uma Shivanand Padanad	VI
62	U15KM21S0026	Sabale Diksheetsa Lagamanna	VI
63	U15KM21S0043	Nikita Biradar	VI
64	U15KM21S0097	Bhuvaneshwari Annappa Agasar	VI
65	U15KM21S0098	Apoorva Awati	VI
66	U15KM21S0130	Nikhita Siddeshwar Vijapur	VI
67	U15KM21S0148	Nikheeta Mohan Pawar	VI
68	U15KM21S0221	Hariprasad Kulkarni	VI
69	U15KM21S0232	Shameem Iqbal Pendari	VI
70	U15KM21S0285	Pranoti Pralhad Kulkarni	VI
71	U15KM21S0289	Annaray Bhavikatti	VI
72	U15KM21S0295	Abhishek Kolakar	VI
73	U15KM21S0315	Prema S	VI

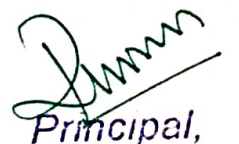
74	U15KM21S0339	Bhagyanidhi Budihal	VI
75	U15KM21S0359	Pooja Mallappa Patil	VI
76	U15KM21S0362	Kavyashree Mahantesh Kaladagi	VI
77	U15KM21S0366	Savita Bilijadar	VI
78	U15KM21S0370	Kashibai Pujari	VI
79	U15KM21S0372	Spoorti Shivappa Siddapur	VI
80	U15KM21S0384	Shruti Pujari	VI
81	U15KM21S0389	Nagaveni Harawal	VI
82	U15KM21S0390	Aishwarya Paragond	VI
83	U15KM21S0397	Patil Suraj Sahebgouda	VI
84	U15KM21S0412	Vishal Santoshkumar Sarur	VI
85	U15KM21S0562	Tejashwini Pandit Malasiddanavar	VI
86	U15MY21S0086	Pooja Nandabasappa Babaleshwar	VI
87	U15KM21S0013	Akshata Iranna Ingaleshwar	VI
88	U15KM21S0072	Swapna Kanase	VI
89	U15KM21S0086	Priyanka Shanmukh Galave	VI
90	U15KM21S0136	Aishwarya Patil	VI
91	U15KM21S0149	Aishwarya Mahadevappa Aravatti	VI
92	U15KM21S0150	Madhupriya Malagar	VI
93	U15KM21S0154	Bhagyashree Iranna Myageri	VI
94	U15KM21S0163	Prajwal Aihole	VI
95	U15KM21S0173	Aishwarya Umarani	VI
96	U15KM21S0177	Prema Sidagouda Patil	VI
97	U15KM21S0201	Jyoti Jiddagi	VI
98	U15KM21S0222	Ashok Teli	VI
99	U15KM21S0284	Rashmi	VI
100	U15KM21S0288	Sadhana Subhashagoud Patil	VI
101	U15KM21S0310	Shruti	VI
102	U15KM21S0367	Sushmita	VI
103	U15KM21S0379	Rekha	VI
104	U15KM21S0383	Sneha Sasanur	VI
105	U15KM21S0441	Ananya Mallikarjun Biradar	VI
106	U15KM21S0451	Laxmi Bharamachi	VI
107	U15KM21S0471	Madhu Baratagi	VI
108	U15KM21S0556	Nirmala Doddaningappagol	VI


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Seminar topics

Sl. NO	UUCMS. NO	NAME OF THE STUDENTS	B.SC	TOPIC NAME	DATE
1	U15KM23S0017	Kumar Biradar	II	Pedal equation.	29-07-2024
2	U15KM23S0020	Samiya Kazi	II	Rolles theorem.	29-07-2024
3	U15KM23S0028	Bhagyashri Indi	II	Algebra of limits.	29-07-2024
4	U15KM23S0067	Aishwarya Managuli	II	Angle between radius vector and tangent.	29-07-2024
5	U15KM23S0071	Danamma Bidari	II	Matrix and types.	29-07-2024
6	U15KM23S0099	Vishnu K	II	Angle between radius vector and tangent.	29-07-2024
7	U15KM23S0157	Priya Madar	II	Rolles theorem.	29-07-2024
8	U15KM23S0158	Vidyashree Korachgaon	II	Lagranges mean value theorem.	29-07-2024
9	U15KM23S0168	Vilasmati Biradar	II	Leibnitzs theorem.	29-07-2024
11	U15KM23S0174	Vaishnavi	II	Lagranges mean value theorem.	29-07-2024
12	U15KM23S0197	Bagali Yashawant	II	Leibnitzs theorem.	30-07-2024
13	U15KM23S0209	Rukmini Darveshi	II	Standard form of Particular integral.	30-07-2024
14	U15KM23S0211	Pallavi Mathapati	II	Cauchys 1 nd theorem on limits.	30-07-2024
15	U15KM23S0213	Bhagyashree	II	Exact differential equation.	30-07-2024
16	U15KM23S0226	Hattale Jayalaxmi	II	Standard form of Particular integral.	30-07-2024
17	U15KM23S0243	Bhagyashree	II	Cauchys 2 nd theorem on limits .	30-07-2024
18	U15KM23S0244	Suchitra Kumbar	II	Equation reducible to exact by finding a suitable integrating factor.	30-07-2024
19	U15KM23S0250	Soumya	II	Exact differential equation.	30-07-2024
20	U15KM23S0275	Vachana	II	D'Alemberts ratio test.	30-07-2024
21	U15KM23S0276	Soujanya Jyoti	II	Exact differential equation.	30-07-2024
22	U15KM23S0302	Kaveri Hullur	II	D'Alemberts ratio test.	31-07-2024
23	U15KM23S0303	Aishwarya Maled	II	Exact differential equation.	31-07-2024
24	U15KM23S0349	Aishwarya Asangihal	II	Particular integral in linear differential equations with constant coefficients.	31-07-2024
25	U15KM23S0358	Lakshmi Patil	II	Rules for finding complementary function.	31-07-2024
26	U15KM23S0359	Satish Pujari	II	Exact differential equation.	31-07-2024

27	U15KM23S0379	Tabassum Benni	II	Exact differential equation.	31-07-2024
28	U15KM22S0259	Swati Bisanal	IV	Exact differential equation.	31-07-2024
29	U15KM22S0273	Rashmi	IV	Necessary and sufficient conditions for exact differential equations.	31-07-2024
30	U15KM22S0294	Danamma Poojari	IV	Exact differential equation.	31-07-2024
31	U15KM22S0305	Pooja Ashok Katti	IV	Rules for finding complementary function.	31-07-2024
32	U15KM22S0311	Amruta Shiroor	IV	Particular integral when $\frac{1}{f(D)} e^{ax} = \frac{1}{f(a)} e^{ax}$, if $f(a) \neq 0$	01-08-2024
33	U15KM22S0312	Revati Nesur	IV	convergent sequence	01-08-2024
34	U15JU22S0058	Prema Bagalkot	IV	Exact differential equation.	01-08-2024
35	U15KM22S0221	Abdul Yadagiri	IV	Reducible to variable-seperable method.	01-08-2024
36	U15KM22S0222	Shrishail Pujari	IV	Sequence and convergent sequence.	01-08-2024
37	U15KM22S0224	Sahana Sajjan	IV	Vector algebra & scalar field.	01-08-2024
38	U15KM22S0225	Sheetal Kadamani	IV	Problems on divergence & curl of vector function.	01-08-2024
39	U15KM22S0192	Shubhangi Biradar	IV	Problems on cylinder.	01-08-2024
40	U15KM22S0180	Bhoomika Kondaguli	IV	Cauchys integral theorem.	01-08-2024
41	U15KM22S0180	Bhoomika Kondaguli	IV	Examples on Greens theorem.	01-08-2024
42	U15KM22S0171	Sateesh Hunalli	IV	Vector algebra & scalar.	02-08-2024
43	U15KM22S0164	Laxmi Biradar	IV	First mean value theorem.	02-08-2024
44	U15KM22S0165	Arpita Sajjan	IV	Examples on Greens theorem	02-08-2024
45	U15KM22S0167	Shivaleela Nalatawad	IV	Milnes Thomson method.	02-08-2024
46	U15KM22S0162	Akshata Badagi	IV	Convergence of improper integrals.	02-08-2024
47	U15KM22S0149	Duradundayya Math	IV	Construction of analytic function	02-08-2024
48	U15KM22S0153	Jayashree	IV	Harmonic functions.	02-08-2024
49	U15KM22S0158	Shweta Hunasagi	IV	Condition for orthogonality.	02-08-2024
50	U15KM22S0137	Ningaraddy	IV	Necessary & sufficient condition for alalytic function.	02-08-2024

51	U15KM22S0125	Sahana Mallappagol	IV	Equation of sphere with centre & radius.	02-08-2024
52	U15KM22S0115	Preeti Keshav	IV	Riemann integrability.	03-08-2024
53	U15KM22S0108	Shailashree	IV	Bilinear transformation.	03-08-2024
54	U15KM22S0102	Swati Chavhan	IV	Harmonic conjugate.	03-08-2024
55	U15KM22S0022	Bhagyashree	IV	Improper integral.	03-08-2024
56	U15KM22S0024	Madhumati	IV	Touching spheres.	03-08-2024
57	U15KM22S0001	Kaveri Melinakeri	IV	Angle between tangent vector	03-08-2024
58	U15KM22S0009	Suma Hitnalli	IV	Rank – Nullity theorem	03-08-2024
59	U15KM21S0001	Krupa Biradar	VI	Exact differential equation	03-08-2024
60	U15KM21S0011	Aishwarya Ghanure	VI	Harmonic functions	03-08-2024
61	U15KM21S0023	Uma Padanad	VI	Exact differential equation	03-08-2024
62	U15KM21S0026	Sabale Diksheetsa	VI	Harmonic functions	05-08-2024
63	U15KM21S0043	Nikita Biradar	VI	Exact differential equation	05-08-2024
64	U15KM21S0097	Bhuvaneshwari	VI	Harmonic functions	05-08-2024
65	U15KM21S0098	Apoorva Awati	VI	Improper integral.	05-08-2024
66	U15KM21S0130	Nikhita Vijapur	VI	Cauchy's integral theorem.	05-08-2024
67	U15KM21S0148	Nikheeta Pawar	VI	Improper integral.	05-08-2024
68	U15KM21S0221	Hariprasad Kulkarni	VI	Cauchy's integral theorem.	05-08-2024
69	U15KM21S0232	Shameem Pendari	VI	Improper integral.	05-08-2024
70	U15KM21S0285	Pranoti Kulkarni	VI	Cauchy's integral theorem.	05-08-2024
71	U15KM21S0289	Annaray Bhavikatti	VI	Cauchy's integral theorem.	05-08-2024
72	U15KM21S0295	Abhishek Kolakar	VI	Improper integral.	06-08-2024
73	U15KM21S0315	Prema S	VI	Cauchy's integral theorem.	06-08-2024
74	U15KM21S0339	Bhagyanidhi	VI	Gauss-Jordan method.	06-08-2024
75	U15KM21S0359	Pooja Patil	VI	Cauchy's integral theorem.	06-08-2024
76	U15KM21S0362	Kavyashree	VI	Harmonic functions	06-08-2024
77	U15KM21S0366	Savita Bilijadar	VI	Exact differential equation	06-08-2024
78	U15KM21S0370	Kashibai Pujari	VI	Harmonic functions	06-08-2024
79	U15KM21S0372	Spoorti Siddapur	VI	Cauchy's integral theorem.	06-08-2024
80	U15KM21S0384	Shruti Pujari	VI	Improper integral.	06-08-2024
81	U15KM21S0389	Nagaveni Harawal	VI	Cauchy's integral theorem.	06-08-2024
82	U15KM21S0390	Aishwarya Paragond	VI	Improper integral.	06-08-2024
83	U15KM21S0397	Patil Suraj	VI	Cauchy's integral theorem.	06-08-2024
84	U15KM21S0412	Vishal Sarur	VI	Improper integral.	06-08-2024
85	U15KM21S0562	Tejashwini	VI	Rank – Nullity theorem	06-08-2024

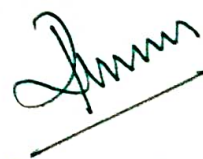
86	U15MY21S0086	Pooja Babaleshwar	VI	Improper integral.	06-08-2024
87	U15KM21S0013	Akshata Ingaleshwar	VI	Newton's Backward Interpolation formula	07-08-2024
88	U15KM21S0072	Swapna Kanase	VI	Improper integral.	07-08-2024
89	U15KM21S0086	Priyanka Galave	VI	Newton's Forward Interpolation formula	07-08-2024
90	U15KM21S0136	Aishwarya Patil	VI	Harmonic functions	07-08-2024
91	U15KM21S0149	Aishwarya Aravatti	VI	Exact differential equation	07-08-2024
92	U15KM21S0150	Madhupriya	VI	Harmonic functions	07-08-2024
93	U15KM21S0154	Bhagyashree	VI	Harmonic functions	07-08-2024
94	U15KM21S0163	Prajwal Aihole	VI	Exact differential equation	07-08-2024
95	U15KM21S0173	Aishwarya	VI	Exact differential equation	07-08-2024
96	U15KM21S0177	Prema Patil	VI	Harmonic functions	07-08-2024
97	U15KM21S0201	Jyoti Jiddagi	VI	Simpsons $\frac{1}{3rd}$ rule	08-08-2024
98	U15KM21S0222	Ashok Teli	VI	Newton Rapson Method	08-08-2024
99	U15KM21S0284	Rashmi	VI	Improper integral.	08-08-2024
100	U15KM21S0288	Sadhana Patil	VI	Newton Rapson Method	08-08-2024
101	U15KM21S0310	Shruti	VI	Improper integral.	08-08-2024
102	U15KM21S0367	Sushmita	VI	Gauss-Jordan method.	08-08-2024
103	U15KM21S0379	Rekha	VI	Simpsons $\frac{1}{3rd}$ rule	08-08-2024
104	U15KM21S0383	Sneha Sasanur	VI	Newton Rapson Method	08-08-2024
105	U15KM21S0441	Ananya Biradar	VI	Gauss-Jordan method.	08-08-2024
106	U15KM21S0451	Laxmi Bharamachi	VI	Improper integral.	08-08-2024
107	U15KM21S0471	Madhu Baratagi	VI	Gauss-Jordan method.	08-08-2024
108	U15KM21S0556	Nirmala	VI	Simpsons $\frac{1}{3rd}$ rule	08-08-2024


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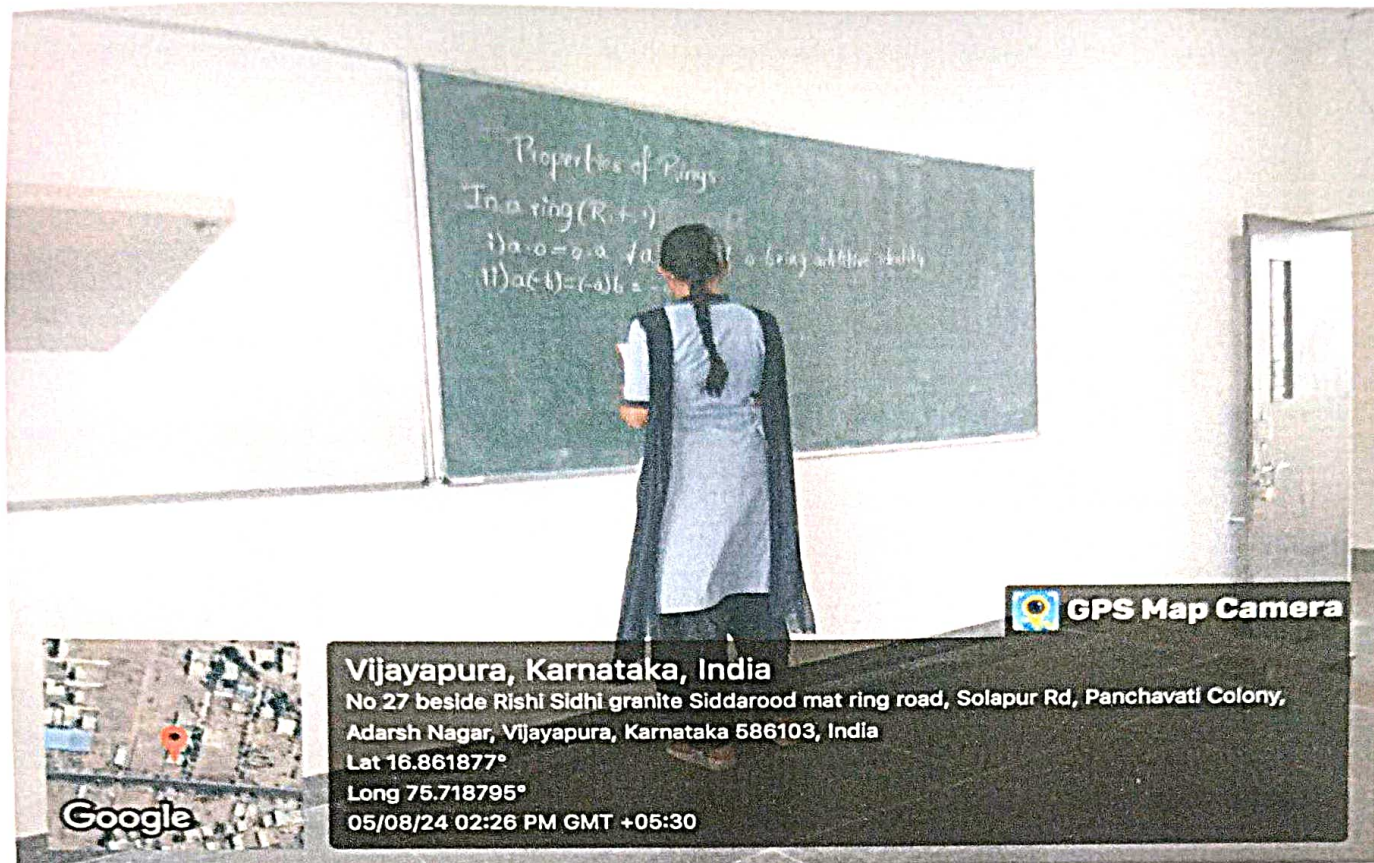
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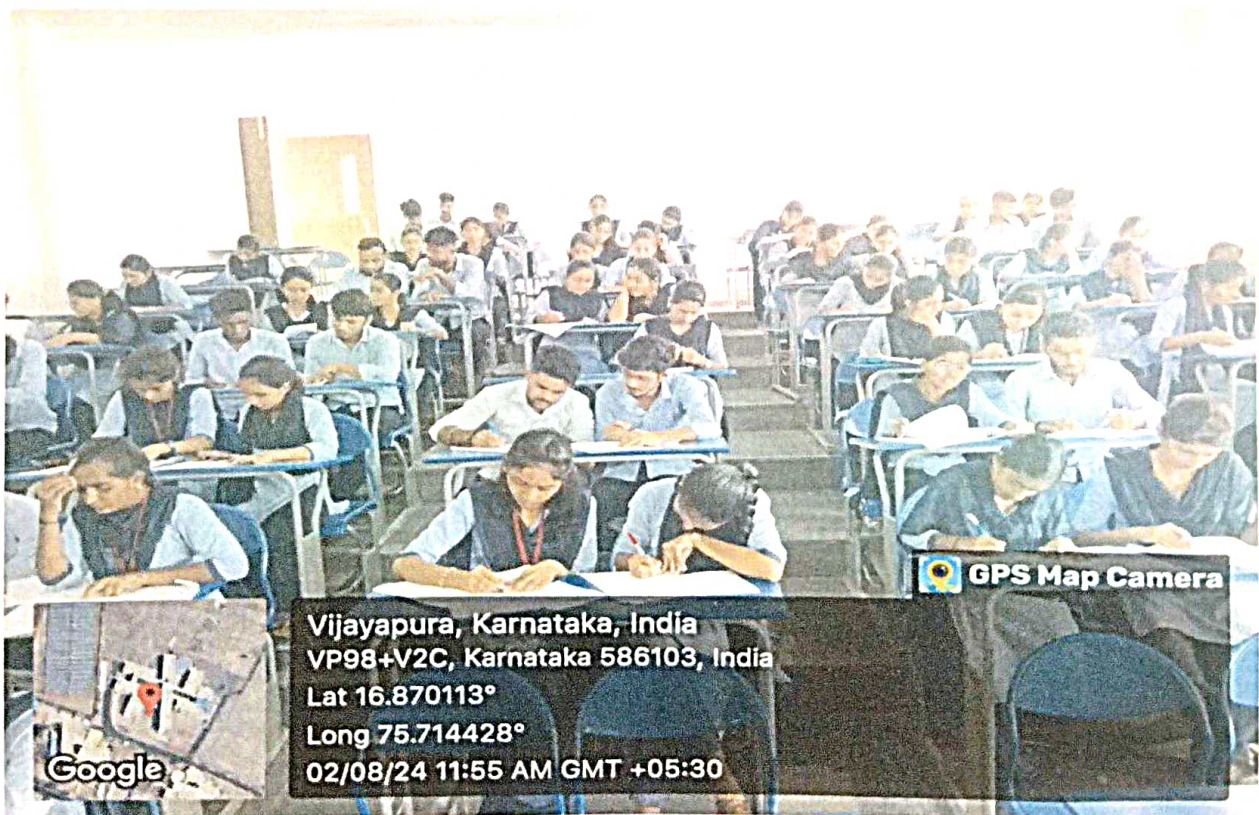
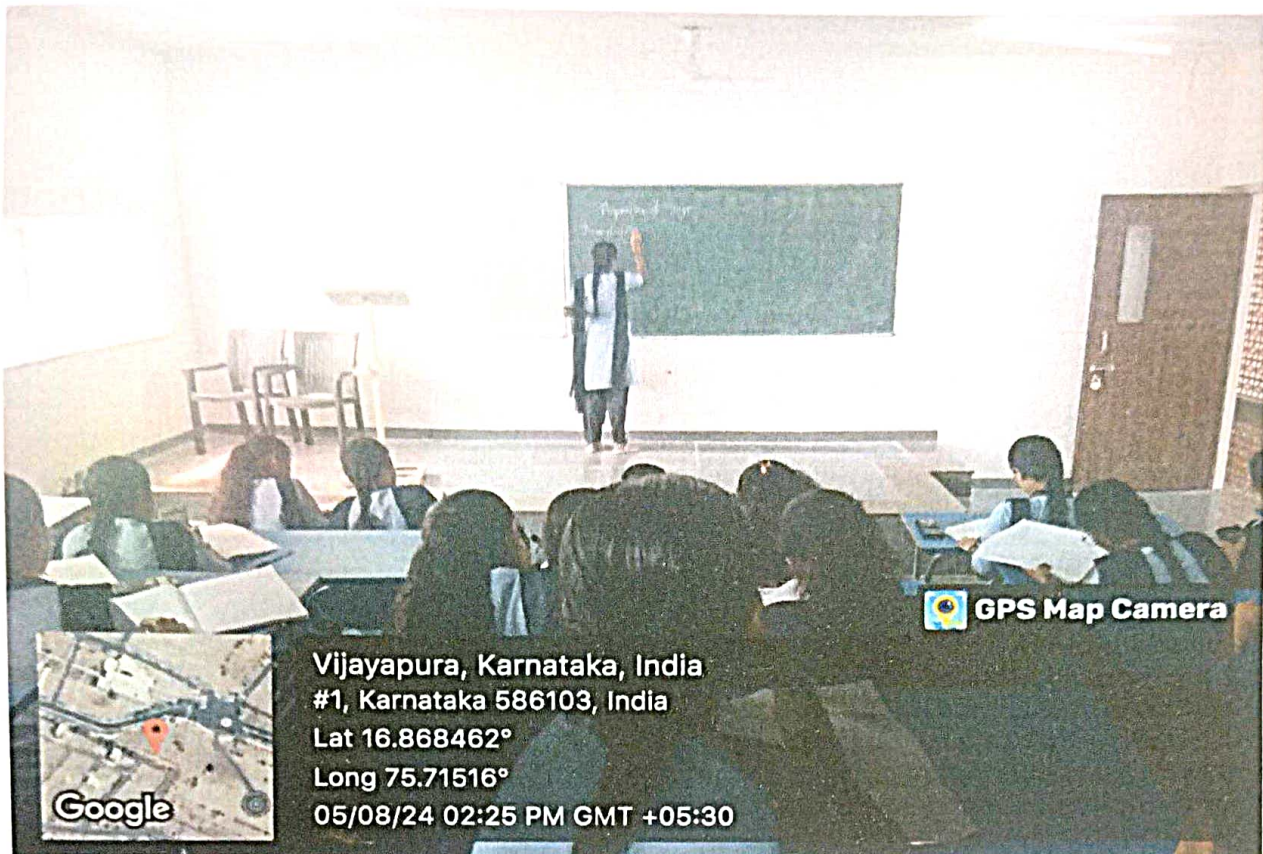
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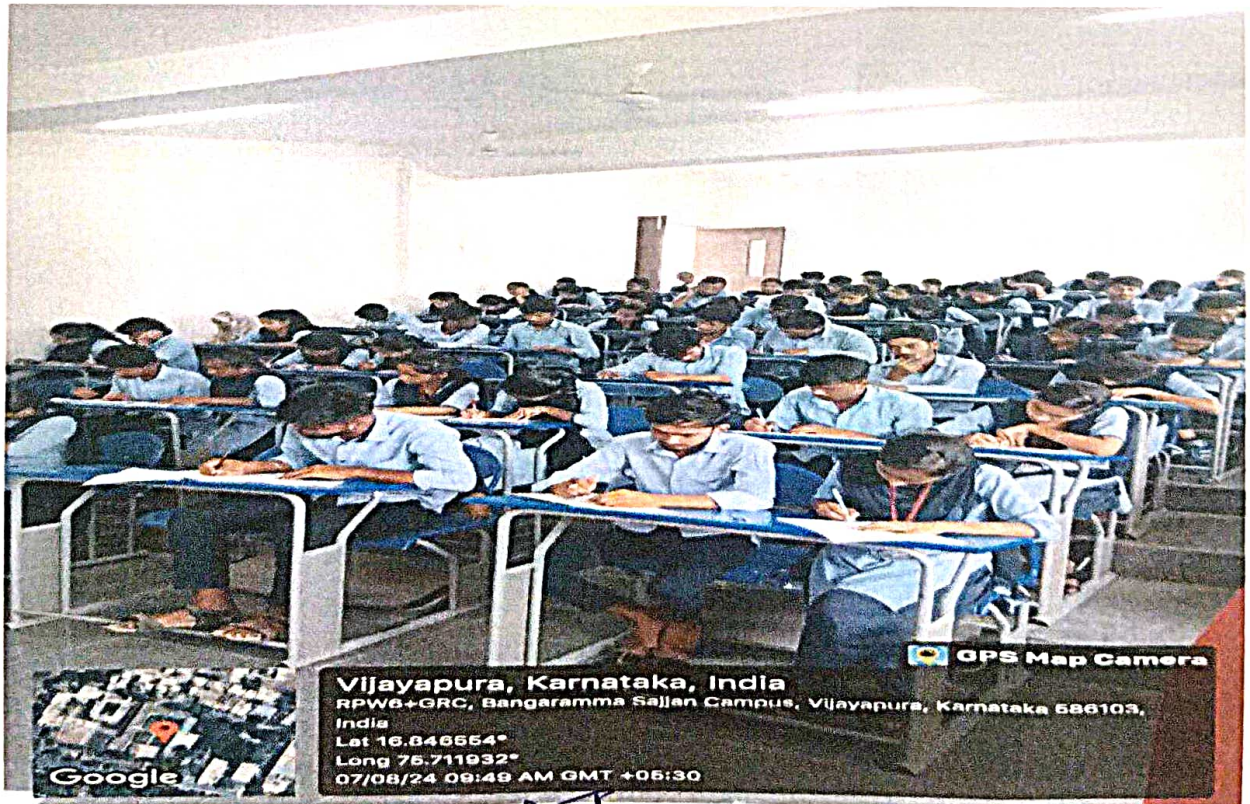
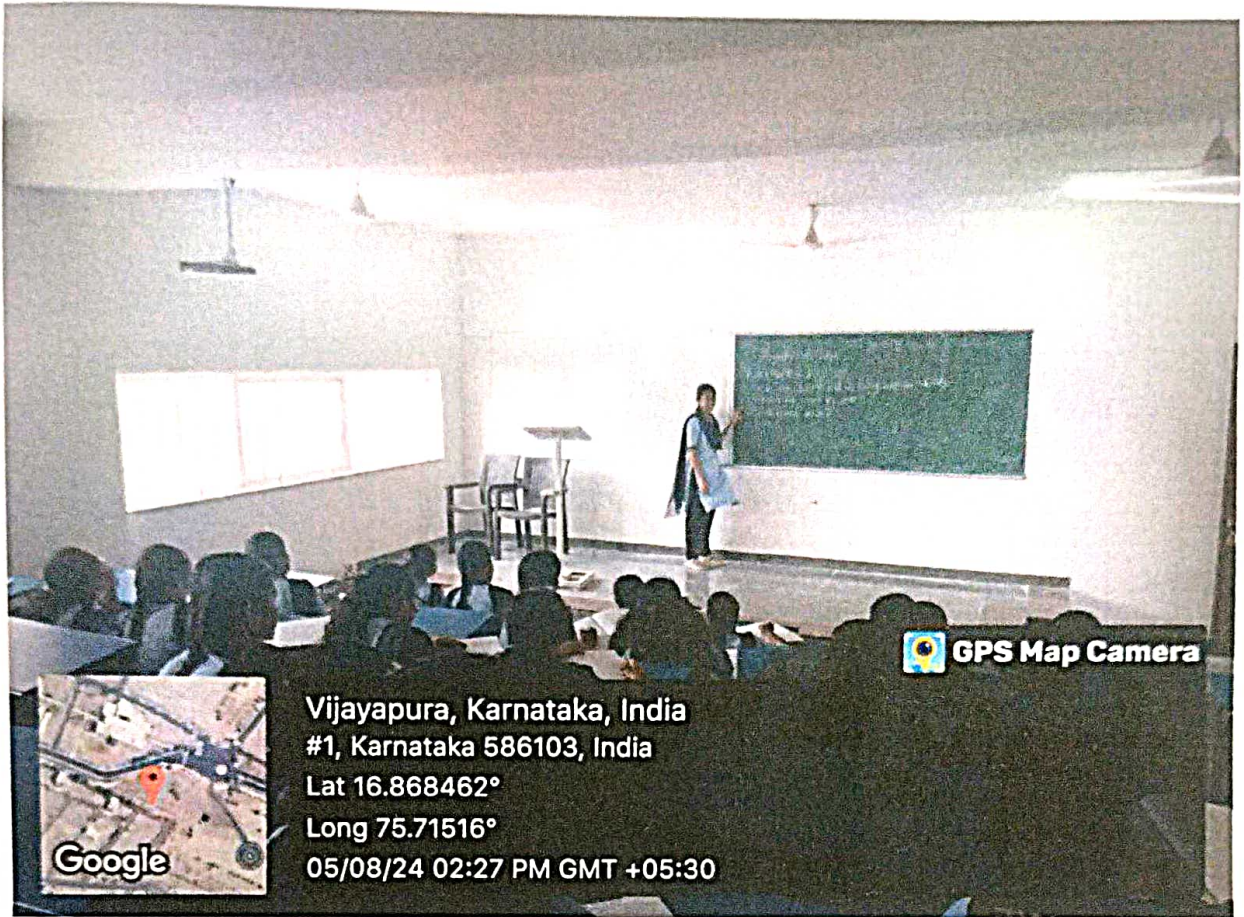
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Advanced learner students giving their seminars



Advanced learner students giving their seminars



Advanced learner students giving their seminars

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BLDEA'S

S B Arts and

KCP Science

College Vijayapur

Seminar on : Numerical Analysis

Name : Bhagyanidhi Budihal

Sub : Mathematics (II) (B div)

Class : BSc VI sem

UUCMS NO: U15KM2150339

Seen

Find a real root of Eqn $x^3 - 2x - 5 = 0$ by the method of false position correct to 3 decimal places

let $f(x) = x^3 - 2x - 5$ then

$$f(0) = -5, \quad f(1) = -6, \quad f(2) = -1, \quad f(3) = 16$$

$\therefore$ the root lies in $(2, 3)$ & it may be observed that value of $f(x)$ at $x=2$ being -1 is nearer to zero compared to $f(3) = 16$, so that we expect root lies in right neighbourhood of 2

$$\text{Now } f(2.1) = 0.061 > 0$$

$\therefore$ the root lies b/w 2 & 2.1

I approx

$$\text{here } a = 2 \quad b = 2.1$$

$$f(a) = -1 \quad f(b) = 0.061$$

$$x_1 = \frac{a f(b) - b f(a)}{f(b) - f(a)} = \frac{2(0.061) - 2.1(-1)}{0.061 + 1} = 2.0942$$

Now,

$$f(2.0942) = 9.18447 - 4.1884 - 5 = -0.0039 < 0$$

$\therefore$ the root lies b/w 2.0942 & 2.1

II approx

$$x_2 = \frac{2.0942(0.061) - 2.1(-0.0039)}{0.061 + 0.0039} = 2.094$$

Comparing x_1 & x_2 we observe that the values are same upto 3 decimal places

hence approximate root is 2.094

Solve by Gauss-Jordan Method

$$2x + 5y + 7z = 52$$

$$2x + y - z = 0$$

$$x + y + z = 9$$

The given system of eqn can be written in the form of $AX = B$

$$\begin{bmatrix} 2 & 5 & 7 \\ 2 & 1 & -1 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 52 \\ 0 \\ 9 \end{bmatrix}$$

Consider the augmented matrix $[A:B]$

$$[A:B] = \left[\begin{array}{ccc|c} 2 & 5 & 7 & 52 \\ 2 & 1 & -1 & 0 \\ 1 & 1 & 1 & 9 \end{array} \right]$$

$$R_1 \leftrightarrow R_3$$

$$\sim \left[\begin{array}{ccc|c} 1 & 1 & 1 & 9 \\ 2 & 1 & -1 & 0 \\ 2 & 5 & 7 & 52 \end{array} \right]$$

$$R_2 \rightarrow R_2 - 2R_1 \quad \& \quad R_3 \rightarrow R_3 - 2R_1$$

$$\sim \left[\begin{array}{ccc|c} 1 & 1 & 1 & 9 \\ 0 & -1 & -3 & -18 \\ 0 & 3 & 5 & 34 \end{array} \right]$$

$$R_1 \rightarrow R_1 + R_2 \quad \& \quad R_3 \rightarrow R_3 + 3R_2$$

$$\sim \left[\begin{array}{ccc|c} 1 & 0 & -2 & -9 \\ 0 & -1 & -3 & -18 \\ 0 & 0 & -4 & -20 \end{array} \right]$$

$$R_3 \rightarrow (-1/4) R_3$$

$$[A:B] \sim \begin{bmatrix} 1 & 0 & 2 & : & -9 \\ 0 & -1 & -3 & : & -18 \\ 0 & 0 & 1 & : & 5 \end{bmatrix}$$

$$R_1 \rightarrow R_1 + 2R_3$$

$$R_2 \rightarrow R_2 + 3R_3$$

$$[A:B] \sim \begin{bmatrix} 1 & 0 & 0 & : & 1 \\ 0 & -1 & 0 & : & -3 \\ 0 & 0 & 1 & : & 5 \end{bmatrix}$$

$$x=1, y=3, z=5$$

Hence the required solution is

$$x=2, y=3, z=5.$$

3) Find the Polynomial by using Newton forward interpolation formula.

$$\begin{array}{l} x: \quad 0 \quad 1 \quad 2 \quad 3 \\ f(x): \quad 1 \quad 2 \quad 1 \quad 10 \end{array}$$

x	y	Δy	$\Delta^2 y$	$\Delta^3 y$
0	1			
		1		
1	2		-2	
		-1		12
2	1		10	
		9		
3	10			

okt Newton forward interpolation formula

$$f(x) = f(a) + u \cdot \frac{\Delta f(a)}{1!} + u(u-1) \frac{\Delta^2 f(a)}{2!} + \dots + u(u-1)(u-2)\dots(u-n+1) \frac{\Delta^n f(a)}{n!}$$

here, $h=1$

$$x = a + hu$$

$$u = \frac{x-a}{h} \Rightarrow \frac{x-0}{1} = x \quad [a=0]$$

$$\boxed{u=x}$$

$$f(x) = f(0) + \frac{x \Delta f(0)}{1} + \frac{x(x-1) \Delta^2 f(0)}{2} + \frac{x(x-1)(x-2) \Delta^3 f(0)}{6}$$

$$= 1 + x(1) + \frac{x(x-1)(-2)}{2} + \frac{x(x-1)(x-2)(\frac{2}{2})}{6}$$

$$= 1 + x - (x^2 - x) + x(x^2 - 2x - x + 2)2$$

$$= 1 + x - x^2 + x + 2x(x^2 - 3x + 2)$$

$$= 1 + x - x^2 + x + 2x^3 - 6x^2 + 4x$$

$$f(x) = 2x^3 - 7x^2 + 6x + 1$$

which is required polynomial.

find $f'(1.5)$ from given table

x :	0.0	0.5	1.0	1.5	2.0
y :	0.3989	0.3521	0.2420	0.1295	0.0540

consider diff table

x	y	$\nabla f(x_n)$	$\nabla^2 f(x_n)$	$\nabla^3 f(x_n)$	$\nabla^4 f(x_n)$
0.0	0.3989				
0.5	0.3521	-0.0468			
1.0	0.2420	-0.1101	-0.0633		
1.5	0.1295	-0.1125	-0.0024	0.0609	
2.0	0.0540	-0.0755	0.037	0.0394	-0.0215

here $h=0.5$ $x=1.5$ $x_n=1.5$ $P = \frac{1.5-1.5}{0.5} = 0$

$$f'(x_n) = \frac{1}{h} \left[\nabla f(x_n) + \frac{1}{2} \nabla^2 f(x_n) + \frac{1}{3} \nabla^3 f(x_n) \right]$$

$$f'(1.5) = \frac{1}{0.5} \left[-0.1125 + \frac{1}{2} (-0.0024) + \frac{1}{3} (0.0609) \right]$$

$$= \frac{1}{0.5} [-0.1125 - 0.0012 + 0.0203]$$

$$= \frac{1}{0.5} [-0.0934]$$

$$f'(1.5) = -0.1868$$



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DEPARTMENT OF MATHEMATICS



Date: 08/08/2024

Seminar Attendance List

Sl. NO	UUCMS. NO	NAME OF THE STUDENTS	B.SC	Signature
1.	U15KM23S0017	Kumar Biradar	II	Kumar
2.	U15KM23S0020	Samiya Kazi	II	Samiya
3.	U15KM23S0028	Bhagyashri Indi	II	Bhadi
4.	U15KM23S0067	Aishwarya Managuli	II	Aishu
5.	U15KM23S0071	Danamma Bidari	II	D.M. Bidari
6.	U15KM23S0099	Vishnu K	II	Vishnu. B.K
7.	U15KM23S0157	Priya Madar	II	Priya
8.	U15KM23S0158	Vidyashree Korachgaon	II	V.Korachgaon
9.	U15KM23S0168	Vilasmati Biradar	II	V.Biradar
10.	U15KM23S0174	Vaishnavi Kodabagi	II	V. P. Kodabagi
11.	U15KM23S0197	Bagali Yashawant	II	Bagali
12.	U15KM23S0209	Rukmini Darveshi	II	Rukmini
13.	U15KM23S0211	Pallavi Mathapati	II	Pallavi
14.	U15KM23S0213	Bhagyashree Choudhari	II	B.Schoudhari
15.	U15KM23S0226	Hattale Jayalaxmi	II	Hattale
16.	U15KM23S0243	Bhagyashree Samagond	II	B.H Samagond
17.	U15KM23S0244	Suchitra Kumbar	II	Suchitra
18.	U15KM23S0250	Soumya Lakkanagaon	II	Soumya
19.	U15KM23S0275	Vachana	II	Vachana
20.	U15KM23S0276	Soujanya Jyoti	II	Soujanya
21.	U15KM23S0302	Kaveri Hullur	II	Kaveri
22.	U15KM23S0303	Aishwarya Maled	II	A.R. Maled
23.	U15KM23S0349	Aishwarya Asangihal	II	Aishwarya
24.	U15KM23S0358	Lakshmi Patil	II	Lakshmi
25.	U15KM23S0359	Satish Pujari	II	Satish
26.	U15KM23S0379	Tabassum Benni	II	Tabassum B.
27.	U15KM22S0259	Swati Bisanal	IV	S. Bisanal
28.	U15KM22S0273	Rashmi	IV	Rashmi
29.	U15KM22S0294	Danamma Poojari	IV	Danamma
30.	U15KM22S0305	Pooja Ashok Katti	IV	Pooja
31.	U15KM22S0311	Amruta Shiroor	IV	Amruta
32.	U15KM22S0312	Revati Nesur	IV	Amruta S
33.	U15JU22S0058	Prema Bagalkot	IV	Prema
34.	U15KM22S0221	Abdul Yadagiri	IV	Abdul

35.	U15KM22S0222	Shrishail Pujari	IV	Shrishail
36.	U15KM22S0224	Sahana Sajjan	IV	Sahana
37.	U15KM22S0225	Sheetal Kadamani	IV	Sheetal
38.	U15KM22S0192	Shubhangi Biradar	IV	Shub
39.	U15KM22S0180	Bhoomika Kondaguli	IV	Bhoomika
40.	U15KM22S0180	Bhoomika Kondaguli	IV	Bhoomika
41.	U15KM22S0171	Sateesh Hunalli	IV	Sateesh
42.	U15KM22S0164	Laxmi Biradar	IV	Laxmi
43.	U15KM22S0165	Arpita Sajjan	IV	Arpita
44.	U15KM22S0167	Shivaleela Nalatawad	IV	Shivaleela
45.	U15KM22S0162	Akshata Badagi	IV	A.R. Badagi
46.	U15KM22S0149	Duradundayya Math	IV	DSA
47.	U15KM22S0153	Jayashree	IV	Jayashree
48.	U15KM22S0158	Shweta Hunasagi	IV	Shweta
49.	U15KM22S0137	Ningaraddy	IV	Ningaraddy
50.	U15KM22S0125	Sahana Mallappagol	IV	Sahana
51.	U15KM22S0115	Preeti Keshav	IV	Preeti
52.	U15KM22S0108	Shailashree Kanashetti	IV	Shailashree
53.	U15KM22S0102	Swati Chavhan	IV	Swati
54.	U15KM22S0022	Bhagyashree Mathapati	IV	Bhagyashree
55.	U15KM22S0024	Madhumati Kalagond	IV	Madhumati
56.	U15KM22S0001	Kaveri Melinakeri	IV	Kaveri
57.	U15KM22S0009	Suma Hitnalli	IV	Suma
58.	U15KM21S0001	Krupa Mahadev Biradar	VI	Krupa
59.	U15KM21S0011	Aishwarya S Ghanure	VI	Aishwarya
60.	U15KM21S0023	Uma Shivanand Padanad	VI	U.S.P
61.	U15KM21S0026	Sabale Diksheetsa Lagamanna	VI	Sabale
62.	U15KM21S0043	Nikita Biradar	VI	Nikita
63.	U15KM21S0097	Bhuvaneshwari A Agasar	VI	Bhuvaneshwari
64.	U15KM21S0098	Apoorva Awati	VI	Apoorva
65.	U15KM21S0130	Nikhita Siddeshwar Vijapur	VI	N.S. Vijapur
66.	U15KM21S0148	Nikheeta Mohan Pawar	VI	Nikheeta
67.	U15KM21S0221	Hariprasad Kulkarni	VI	Hariprasad
68.	U15KM21S0232	Shameem Iqbal Pendari	VI	Shameem
69.	U15KM21S0285	Pranoti Pralhad Kulkarni	VI	Pranoti
70.	U15KM21S0289	Annaray Bhavikatti	VI	Annaray
71.	U15KM21S0295	Abhishek Kolakar	VI	Abhishek
72.	U15KM21S0315	Prema S	VI	P.S.M
73.	U15KM21S0339	Bhagyanidhi Budihal	VI	Bhagyanidhi
74.	U15KM21S0359	Pooja Mallappa Patil	VI	Pooja
75.	U15KM21S0362	Kavyashree M Kaladagi	VI	K.M. Kaladagi
76.	U15KM21S0366	Savita Bilijadar	VI	Savita
77.	U15KM21S0370	Kashibai Pujari	VI	Kashibai
78.	U15KM21S0372	Spoorti Shivappa Siddapur	VI	Spoorti

79.	U15KM21S0384	Shruti Pujari	VI	S.B. Pujari
80.	U15KM21S0389	Nagaveni Harawal	VI	Nagaveni
81.	U15KM21S0390	Aishwarya Paragond	VI	Paragond
82.	U15KM21S0397	Patil Suraj Sahebgouda	VI	Suraj
83.	U15KM21S0412	Vishal Santoshkumar Sarur	VI	Vishal
84.	U15KM21S0562	Tejashwini P Malasiddanavar	VI	Tejashwini
85.	U15MY21S0086	Pooja N Babaleshwar	VI	Pooja
86.	U15KM21S0013	Akshata Irranna Ingaleshwar	VI	Akshata
87.	U15KM21S0072	Swapna Kanase	VI	Swapna
88.	U15KM21S0086	Priyanka Shanmukh Galave	VI	Priyanka
89.	U15KM21S0136	Aishwarya Patil	VI	Aishwarya
90.	U15KM21S0149	Aishwarya M Aravatti	VI	Aishwarya
91.	U15KM21S0150	Madhupriya Malagar	VI	Madhupriya
92.	U15KM21S0154	Bhagyashree Irranna Myageri	VI	Bhagyashree
93.	U15KM21S0163	Prajwal Aihole	VI	Prajwal
94.	U15KM21S0173	Aishwarya Umarani	VI	Aishwarya
95.	U15KM21S0177	Prema Sidagouda Patil	VI	Prema
96.	U15KM21S0201	Jyoti Jiddagi	VI	Jyoti
97.	U15KM21S0222	Ashok Teli	VI	Ashok
98.	U15KM21S0284	Rashmi	VI	Rashmi
99.	U15KM21S0288	Sadhana Subhashagoud Patil	VI	Sadhana
100.	U15KM21S0310	Shruti	VI	Shruti
101.	U15KM21S0367	Sushmita	VI	Sushmita
102.	U15KM21S0379	Rekha	VI	Rekha
103.	U15KM21S0383	Sneha Sasanur	VI	Sneha
104.	U15KM21S0441	Ananya Mallikarjun Biradar	VI	Ananya
105.	U15KM21S0451	Laxmi Bharamachi	VI	Laxmi
106.	U15KM21S0471	Madhu Baratagi	VI	Madhu
107.	U15KM21S0556	Nirmala Doddaningappagol	VI	Nirmala
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Seminar Report

The Department of Mathematics conducted the seminars for Advanced Learners of B.Sc II, IV and VI semester. Students given seminars on the chapters covered in their syllabus, each student given 10 minutes for the topic which covers 8 minutes for seminar and 2 minutes for discussion.

The objective of conducting the seminars was to help the students that to improve their communication skills, knowledge and to reduce stage fear for the students.

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