

Shri Sarda Education Society (Trust)'s
(A linguistic Minority Educational Institute)

**SMT. RADHABAI SARDA ARTS,
COMMERCE & SCIENCE COLLEGE,
ANJANGAON SURJI**

NAAC Accredited 'A' with CGPA 3.21

DEPARTMENT OF MATHEMATICS

(AY 2023-2024)

CERTIFICATE COURSE-

INTRODUCTION TO CALCULUS

Shri Sarda Education Society (Trust)'s
(A linguistic Minority Educational Institute)
NAAC Accredited 'A' with CGPA 3.21

Smt. Radhabai Sarda Arts, Commerce & Science College, Anjangaon Surji

**Department of Mathematics
Academic Session: 2023-2024**

To
The Principal,
Smt Radhabai Sarda Arts, Commerce & Science College,
Anjangaon Surji

Subject: Regarding Permission to conduct Certificate Course entitled "Intoduction to Calculus"
during the Academic session 2023-2024

Hon'ble Sir,

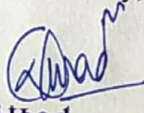
With reference to above subject, I request you to kindly grant us permission for conducting the said course in the department of Mathematics. The duration of the course will be 30 hours (2 hours X 15 working days). The syllabus of the course is enclosed herewith for your kind consideration. The course will be fruitful for the students keeping in mind their development towards Numerical calculation practices which are being used for better understanding of the subject.

With regards,

Yours faithfully,

Date: 07/08/2023

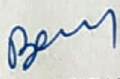
Place: Anjangaon Surji


Head,

Department of Mathematics
Smt. Radhabai Sarda College
Anjangaon Surji

Enclosures:

1. Syllabus of Certificate Course


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Smt Radhabai Sarda Arts, Commerce and Science College,

Anjangaon Surji

Department of Mathematics

Certificate Course on "Introduction to Calculus"

Session: 2023-2024

Syllabus of the Course

UNIT I. Precalculus

- Real line, decimals and significant figures
- The Theorem of Pythagoras and properties of the square root of 2
- Algebraic expressions, surds and approximations
- Coordinate systems
- Distance and absolute value
- Lines and circles in the plane

UNIT II. Functions

- Functions as rules, with domain, range and graph
- Polynomial and power functions
- Composite functions
- Inverse functions
- The exponential function
- The logarithmic function
- Exponential growth and decay
- Sine, cosine and tangent
- The unit circle and trigonometry
- Inverse circular functions

Unit III. Introducing the Differential Calculus

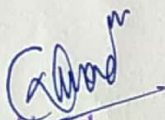
- Displacement, velocity and acceleration
- Tangent lines and secants
- Different kinds of limits
- Limit laws
- Limits and continuity
- The derivative as a limit
- Finding derivatives from first principles
- Differentials and applications

Unit IV. Properties and Applications of the Derivative

- Increasing and decreasing functions
- Maxima and minima
- The Chain Rule
- Applications of the Chain Rule
- The Product Rule
- Applications of the Product Rule
- The Quotient Rule
- Application of the Quotient Rule

Unit V. Introducing the Integral Calculus

- Inferring displacement from velocity
- Areas bounded by curves
- The Fundamental Theorem of Calculus and indefinite integrals
- Connection between areas and derivatives
- Integration by substitution
- Odd and even function


Head

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Department of Mathematics

Certificate Course on "Introduction to Calculus"

Session: 2023-2024

NOTICE

All the students of B.Sc. II are hereby informed that Department of Mathematics is going to start a certificate course of 'Introduction to Calculus' from 08/09/2023 to 29/09/2023. The interested students are directed to confirm admission on or before 29th August 2023.

Date: 21/08/2023



Co-ordinator & Head

Head

Department of Mathematics
Smt. Radhabai Sarda College
Anjangaon Surji

AME
B.sc.I

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Dist Amravati.

Department of Mathematics

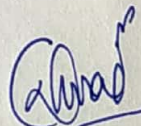
Certificate Course on 'Introduction to Calculus'

Session: 2023-2024

NOTICE

All the faculty members (C. H. B.) are hereby informed that Departmental meeting related to "Certificate course" is arranged on 15 August 2023 at 03:30 PM at the Department of Mathematics. You all are requested to present for the meeting with some innovative ideas. The minutes of the meeting are as follows.

1. - It was unanimously decided to start certificate course for 30 Hours
2. To decide the topic and design syllabus
3. To frame the time table
4. Exam will be conducted after completion of the course



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Department of Mathematics
Certificate Course on "Introduction to Calculus"
Session: 2023-2024

Syllabus of the Course

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Unit III. Introducing the Differential Calculus

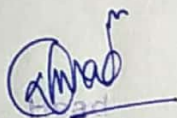
- Displacement, velocity and acceleration
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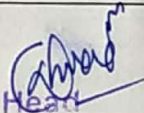
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Smt Radhabai Sarda Arts, Commerce and Science College,
Anjangaon Surji
Department of Mathematics
Academic Session: 2023-24

List of Enrolled students for Certificate Course "Introduction to Calculus"

Sr. No.	Name of the Student	Class	Signature
1	Abhay Bhagwan Gawai	BSc II	ABGawai
2	Abhay Vasantao Ingle	BSc II	ABIngle
3	Achal Rajesh Kurlkar	BSc II	AKurlkar
4	Aditya Nandkishor Yeul	BSc II	AYeul
5	Akanksha Arvind Borode	BSc II	A.A.Borode
6	Akanksha Vinod Gangane	BSc II	AGangane
7	Anand Baburav Athawale	BSc II	AAthawale
8	Ayush Suresh Awandkar	BSc II	ASAwandkar
9	Bhargavi Bharatbhushan Yawale	BSc II	BYawale
10	Harshad Vinodrao Takore	BSc II	HTakore
11	Ishwari Mahendrarao Patil	BSc II	IPatil
12	Janavi Dhiraj Rongare	BSc II	J.D.Rongare
13	Jay Lalit Borse	BSc II	JBorse
14	Jay Rajkumar Tote	BSc II	JR.Tote
15	Kanchan Devraj Manekar	BSc II	KManekar
16	Khushi Mukund Kadu	BSc II	KhushiM.Kadu
17	Mayuri Gopalrao Datir	BSc II	M.G.Datir
18	Mrudula Santosh Pisole	BSc II	MPisole
19	Nagesh Arunrao Pakhare	BSc II	N.A.Pakhare
20	Namdeo Vinod Chincholkar	BSc II	NChincholkar
21	Piyush Dilip Lawate	BSc II	PLawate
22	Prachi Pradippant Bhagat	BSc II	P.Bhagat
23	Pratham Diliprao There	BSc II	PThere
24	Pratiksha Najukrao Rangole	BSc II	P.N.Rangole
25	Pratiksha Suresh Tathe	BSc II	PTathe
26	Puja Ganeshrao Bhawe	BSc II	P.G.Bhawe
27	Punam Vijay Takore	BSc II	PTakore
28	Radhika Pundlikrao Yeul	BSc II	R.P.Yeul
29	Renuka Rajeshrao Joshi	BSc II	R.R.Joshi

Sr. No.	Name of the Student	Class	Signature
30	Riya Nitin Rahate	BSc II	रिया नि. राहते
31	Rutuja Sudhakar Dhule	BSc II	R.S.Dhule.
32	Rutvik Anil Nirmal	BSc II	Rutvik
33	Sakshi Tulashiram Aswar	BSc II	S.T.Aswar
34	Saloni Umesh Marodkar	BSc II	Saloni
35	Samiksha Sandiprao Kankale	BSc II	S.S.Kankale
36	Sharyu Ashok Thorat	BSc II	Thorat
37	Shital Balu Naik	BSc II	S.B.Naik
38	Shravani Narayan Bhele	BSc II	Bhele
39	Shreya Mohan Nipane	BSc II	Shreya Nipane
40	Shreya Rajendra Balange	BSc II	S.R.Balange
41	Shreya Sanjaysing Khojare	BSc II	Shreya
42	Shrihari Shyam Dhanegaonkar	BSc II	Dhanegaonkar
43	Siddhi Santosh Bhamburkar	BSc II	Bhamburkar
44	Sk Hassan Sk Nisar	BSc II	Sk Nisar
45	Tanaya Nitin Kalamkar	BSc II	Tanaya
46	Vaishnavi Rajesh Gour	BSc II	V.R.Gour
47	Vinit Narayan Bhele	BSc II	Bhele
48	Vishakha Krishna Topare	BSc II	Topare
49	Yash Gajanan Kaple	BSc II	Kaple


 Head
 Department of Mathematics
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Department of Mathematics

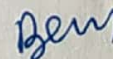
Certificate Course on "Introduction to Calculus"
Session: 2023-2024

TIME TABLE

Sr.No.	DATE	TIME	TOPIC
1	08/09/2023	10.30am	Inauguration and Interactive session with Guest.
2	09/09/2023 to 11/09/2023	9.30-11.30 am	Unit I
3	12/09/2023 to 15/09/2023	9.30-11.30 pm	Unit II
4	16/09/2023 to 20/09/2023	10-11.30 pm	Unit III
5	21/09/2023 to 25/09/2023	10-11.30 pm	Unit IV
6	26/09/2023 to 27/09/2023	10-11.30 pm	Unit V
7	29/09/2023	9.30 to 11.30 am	Exam


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Smt. Radhabai Sardar Arts, Commerce & Science College, Anjangaon Surji
Department of Mathematics
Certificate Course- Introduction to Calculus
(Academic Session: 2023-24)

Attendance Sheet

Sr. No.	Name of Student	08/09 23	09/09 23	11/09 23	12/09 23	13/09 23	14/09 23	15/09 23	16/09 23	18/09 23	19/09 23	20/09 23	21/09 23	22/09 23	23/09 23	25/09 23	26/09 23	27/09 23
1	Abhay Bhagwan Gawai	P	P	.	P	P	P	P	P	P	.	P	P	P	P	P	.	P
2	Abhay Vasantrao Ingle	P	P	P	P	P	.	P	P	P	P	.	P	P	P	P	.	P
3	Achal Rajesh Kurlkar	P	.	.	P	P	P	P	P	P	P	P	.	.	.	P	P	P
4	Aditya Nandkishor Yeul	P	P	P	P	P	.	.	P	P	P	P	P	P	P	P	.	P
5	Akanksha Arvind Borode	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	.
6	Akanksha Vinod Gangane	P	P	.	.	P	P	P	P	P	P	P	P	.	.	P	P	P
7	Anand Baburav Athawale	P	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P
8	Ayush Suresh Awandkar	P	P	.	.	.	P	P	P	P	P	P	P	.	P	P	P	P
9	Bhargavi Bharatbhushan Yawale	P	P	P	P	P	P	.	P	P	P	P	.	P	P	P	P	P
10	Harshad Vinodrao Takore	P	P	P	P	P	P	.	.	.	P	P	P	P	P	P	P	.
11	Ishwari Mahendrarao Patil	P	P	P	.	P	P	P	P	P	P	P	P	.	P	P	P	P
12	Janavi Dhiraj Rongare	P	P	P	.	P	P	.	.	.	P	P	P	P	.	P	P	P

Sr. No.	Name of Student																		
13	Jay Lalit Borse	P	P	P	P	.	P	P	P	P	P	P	P	P	.	.	P	P	P
14	Jay Rajkumar Tote	P	P	.	P	P	P	P	.	.	P	P	P	P	P	.	P	P	P
15	Kanchan Devraj Manekar	P	P	P	.	P	P	P	.	P	P	P	P	.	P	P	P	P	.
16	Khushi Mukund Kadu	P	.	.	P	P	P	.	.	.	.	.	.	.	.	.	.	.	P
17	Mayuri Gopalrao Datir	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	Mrudula Santosh Pisole	P	P	P	P	.	P	P	P	P	P	P	P	.	P	P	P	P	.
19	Nagesh Arunrao Pakhare	P	.	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	.
20	Namdeo Vinod Chincholkar	P	P	.	P	P	P	P	P	P	P	.	.	P	P	P	P	P	P
21	Piyush Dilip Lawate	P	P	.	P	P	P	P	P	.	P	P	P	P	P	P	P	P	P
22	Prachi Pradippant Bhagat	P	P	P	P	P	P	.	P	P	P	.	.	P	P	P	P	P	P
23	Pratham Diliprao There	P	P	P	P	P	.	.	P	P	P	P	P	P	P	P	P	P	P
24	Pratiksha Najukrao Rangole	P	P	P	.	P	P	P	P	.	.	P	P	P	P	P	P	P	P
25	Pratiksha Suresh Tathe	P	P	P	.	P	P	P	P	P	.	P	P	P	P	P	P	P	P
26	Puja Ganeshrao Bhawe	P	P	P	P	P	P	P	P	.	.	P	P	P	P	.	P	P	P
27	Punam Vijay Takore	P	.	.	P	P	P	P	P	P	P	P	P	.	P	.	P	P	P
28	Radhika Pundlikrao Yeul	P	P	P	.	.	P	P	P	P	P	.	P	P	P	.	.	.	.
29	Renuka Rajeshrao Joshi	P	P	P	.	P	P	P	P	P	.	P	P	P	P	P	P	P	P
30	Riya Nitin Rahate	P	P	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P

49	Yash Gajanan Kaple	P	P	P	.	P	P	P	P	P	P	P	-	-	P	P	P	P
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 Head
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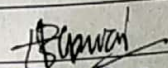
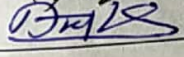
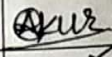
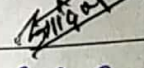
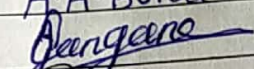
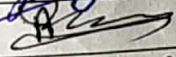
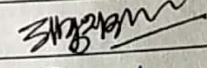
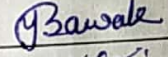
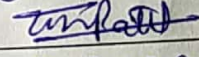
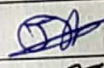
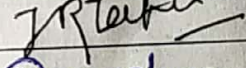
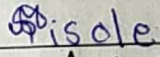
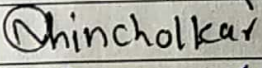
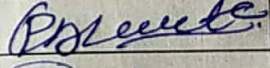
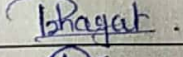
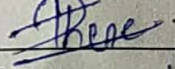
Department of Mathematics

Session: 2023-2024

Examination of Certificate Course on "Introduction to Calculus"

Attendance Sheet

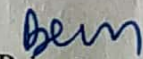
Date of Examination-

SN	Name of the Student	Class	Signature
1	Abhay Bhagwan Gawai	BSc II	
2	Abhay Vasantrao Ingle	BSc II	
3	Achal Rajesh Kurlkar	BSc II	
4	Aditya Nandkishor Yeul	BSc II	
5	Akanksha Arvind Borode	BSc II	A. A. Borode.
6	Akanksha Vinod Gangane	BSc II	
7	Anand Baburav Athawale	BSc II	
8	Ayush Suresh Awandkar	BSc II	
9	Bhargavi Bharatbhushan Yawale	BSc II	
10	Harshad Vinodrao Takore	BSc II	
11	Ishwari Mahendrarao Patil	BSc II	
12	Janavi Dhiraj Rongare	BSc II	J. D. Rongare
13	Jay Lalit Borse	BSc II	
14	Jay Rajkumar Tote	BSc II	
15	Kanchan Devraj Manekar	BSc II	
16	Khushi Mukund Kadu	BSc II	
17	Mayuri Gopalrao Datir	BSc II	
18	Mrudula Santosh Pisol	BSc II	
19	Nagesh Arunrao Pakhare	BSc II	N. A. Pakhare
20	Namdeo Vinod Chincholkar	BSc II	
21	Piyush Dilip Lawate	BSc II	
22	Prachi Pradippant Bhagat	BSc II	
23	Pratham Diliprao There	BSc II	
24	Pratiksha Najukrao Rangole	BSc II	P. N. Rangole
25	Pratiksha Suresh Tathe	BSc II	
26	Puja Ganeshrao Bhawe	BSc II	P. G. Bhawe.

SN	Name of The Student	Class	Signature
27	Punam Vijay Takore		
28	Radhika Pundlikrao Yeul	BSc II	Takore
29	Renuka Rajeshrao Joshi	BSc II	R.P. Yeul.
30	Riya Nitin Rahate	BSc II	R.R. Joshi
31	Rutuja Sudhakar Dhule	BSc II	रिजा नि. राहते
32	Rutvik Anil Nirmal	BSc II	R.S. Dhule
33	Sakshi Tulashiram Aswar	BSc II	R.Nirmal
34	Saloni Umesh Marodkar	BSc II	S.T. Aswar.
35	Samiksha Sandiprao Kankale	BSc II	S. T.
36	Sharyu Ashok Thorat	BSc II	S.S. Kankale
37	Shital Balu Naik	BSc II	Thorat
38	Shravani Narayan Bhele	BSc II	S.B. Naik.
39	Shreya Mohan Nipane	BSc II	Bhele
40	Shreya Rajendra Balange	BSc II	Nipane
41	Shreya Sanjaysing Khojare	BSc II	S.R. Balange
42	Shrihari Shyam Dhanegaonkar	BSc II	Khojare
43	Siddhi Santosh Bhamburkar	BSc II	Dhanegaonkar
44	Sk Hassan Sk Nisar	BSc II	Bhamburkar
45	Tanaya Nitin Kalamkar	BSc II	Nisar
46	Vaishnavi Rajesh Gour	BSc II	Kalamkar
47	Vinit Narayan Bhele	BSc II	V.R. Gour.
48	Vishakha Krishna Topare	BSc II	Bhele
49	Yash Gajanan Kaple	BSc II	Topare
			Kaple


 Co-ordinator & Head
 Department of Mathematics
 Smt. Radhabai Sarda College
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(A linguistic Minority Educational Institute)
Smt Radhabai Sarda Arts, Commerce and Science College Anjagaon Surji

Department of Mathematics
Session: 2023-2024

Examination Result of Certificate Course on 'Introduction to Calculus'

S.N	Name of the Student	Max. Marks	Marks Obtained
1	Abhay Bhagwan Gawai	50	38
2	Abhay Vasantrao Ingle	50	42
3	Achal Rajesh Kurlkar	50	48
4	Aditya Nandkishor Yeul	50	47
5	Akankasha Arvind Borode	50	42
6	Akanksha Vinod Gangane	50	36
7	Anand Baburav Athawale	50	39
8	Ayush Suresh Awandkar	50	41
9	Bhargavi Bharatbhushan Yawale	50	43
10	Harshad Vinodrao Takore	50	47
11	Ishwari Mahendrarao Patil	50	37
12	Janavi Dhiraj Rongare	50	42
13	Jay Lalit Borse	50	41
14	Jay Rajkumar Tote	50	46
15	Kanchan Devraj Manekar	50	
16	Khushi Mukund Kadu	50	
17	Mayuri Gopalrao Datir	50	36
18	Mrudula Santosh Pisle	50	39
19	Nagesh Arunrao Pakhare	50	41
20	Namdeo Vinod Chincholkar	50	42
21	Piyush Dilip Lawate	50	45
22	Prachi Pradippant Bhagat	50	48
23	Pratham Diliprao There	50	
24	Pratiksha Najukrao Rangole	50	41
25	Pratiksha Suresh Tathe	50	39
26	Puja Ganeshrao Bhawe	50	36
27	Punam Vijay Takore	50	42
28	Radhika Pundlikrao Yeul	50	38
29	Renuka Rajeshrao Joshi	50	40

S.N	Name of the Student	Max. Marks	Marks Obtained
30	Riya Nitin Rahate		
31	Rutuja Sudhakar Dhule	50	42
32	Rutvik Anil Nirmal	50	40
33	Sakshi Tulashiram Aswar	50	35
34	Saloni Umesh Marodkar	50	37
35	Samiksha Sandiprao Kankale	50	32
36	Sharyu Ashok Thorat	50	34
37	Shital Balu Naik	50	
38	Shravani Narayan Bhele	50	38
39	Shreya Mohan Nipane	50	35
40	Shreya Rajendra Balange	50	31
41	Shreya Sanjaysing Khojare	50	33
42	Shrihari Shyam Dhanegaonkar	50	31
43	Siddhi Santosh Bhamburkar	50	30
44	Sk Hassan Sk Nisar	50	38
45	Tanaya Nitin Kalamkar	50	39
46	Vaishnavi Rajesh Gour	50	33
47	Vinit Narayan Bhele	50	31
48	Vishakha Krishna Topare	50	43
49	Yash Gajanan Kaple	50	38

(Signature)

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(Signature)

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SHRI SARDA EDUCATION SOCIETY'S

(A LINGUISTIC MINORITY EDUCATIONAL INSTITUTE)

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE
ANJANGAON SURJI, DIST. AMRAVATI



Certificate

This is to certify that Mr./Mrs. of has
successfully completed Certificate Course entitled "Introduction to Calculus" organized by the Department of
Mathematics from 08/09/2023 to 29/09/2023 during the Academic Session 2023- 2024.


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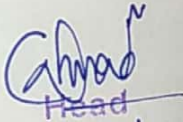
Department of Mathematics

Programme Outcome of a Certificate course entitled "Introduction to Calculus"

Academic Session 2023-2024

Students enrolled in Introduction to Calculus will:

- become acquainted with key concepts from precalculus, such as the manipulation of equations and elementary functions; and,
- become acquainted with the preliminary methodology of tangents and limits, as well as the definition of a derivative,
- develop and practise differential calculus methods with applications.
- develop and practise integral calculus methods.



Head
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COLLEGE, ANJANGAON SURJI**

Department of Mathematics

Academic Session: 2023-2024

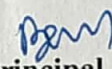
Summary report of Certificate Course-"INTRODUCTION TO CALCULUS"

The certificate course in "Introduction to Calculus" has been undertaken by the Department of Mathematics during the academic session 2023-2024. The duration of the course was 30 hours (15 days). Total 49 students were enrolled for the course. All the students have completed the course successfully.

The Introduction to Calculus course's focus and themes address the most important foundations for mathematical applications in science, engineering, and commerce. The course emphasises key ideas and historical motivations for calculus while striking a balance between theory and application.


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