



Shikshan Prasarak Mandal's Anadur

JAWAHAR ART'S, SCIENCE & COMMERCE COLLEGE, ANADUI

Tq. Tuijapur, Dist. Osmanabad-413 603

NAAC GRADE - B++(CUPA 2.81)

Shri. B.F.Kasture

Secretary :- Shri. S.N. Alure Guruji

rincipal :- Dr.Smt. M.B. Jadhav(Mob.9960242667)

·- (02471) 246037, 246737

Ref. No. /J/SC/

Date: 02 / 07/2018

Notice

All the faculty members of Mathematics Department are hereby informed that a meeting of our department will be held on day 02/07/2018 under the chairmanship of our head Shri. S. D. Agalave to discuss the following agenda. So everyone should attend on time.

Agenda for meeting:

- 1. To read and confirm the Proceeding of last meeting.
- 2. To read and confirm the certificate course.
- 3. To discuss and design the stricter of certificate course.
- 4. To prepare and frame the syllabus of certificate course.
- 5. To formulate the BOS.
- 6. To prepare the Time-Table of certificate course.
- 7. To conduct other activities regarding the course.
- 8. Timely topics with the permission of chairperson.

Jawahar Arts, Science & Commer Anadur, Dist. Osman i ud - 6 385;



Shikshan Prasarak Mandal's, Anadur Jawahar Arts, Science & Commerce College,

Anadur, Tq. Tuljapur, Dist. Osmanabad -413603

Proceeding of Mathematics Departmental Meeting

Today o2 / o7 /2018 a meeting was held in department of Mathematics under the chairperson Shri. S. D. Agalave (HOD). In this meeting discussion made on how to conduct the certificate course in **Introduction to Calculus**. All faculties are unanimously agreed to run this certificate course for all UG students. Discussion was successful regarding to construct the syllabus, timetable, the nature of Question paper and the said course admission form. All faculties assured each other to give healthy contribution for running this course and all other efforts needed. Finally all faculties are firmly decided to construct the syllabus, timetable, sample question paper and admission form and convey to Hon. Principal for further approval from Local Management Committee.

Shri. S. D. Agalave

Smt, M. N. Gadsing

Principal Principal

Jawahar Arts, Science & Commerce College Anadur, Tal, Tuljapur, Dist, Osmanabad.



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Principal: - Dr.Smt. M.B. Jadhav(Mob.9960242667)

🕿 :- (02471) 246037, 246737

Ref. No. /JASC /

Date 04/07/2018

To, Principal, JASC College, Anadur. Tq. Tuljapur, Dist. Osmanabad.

Sub: Permission to conduct the certificate course "**Introduction to Calculus**" conducted by Mathematics Department.

Respected Sir,

With reference to the above cited subject, we are kindly informing you that a departmental meeting of Mathematics was held on 02/07/2018. In this meeting all faculties are unanimously decided to conduct a certificate course on "Introduction to Calculus" during this academic year 2018-19. In this meeting we all faculty also make an action plan to run this certificate course with all necessary formalities. So we request you to give approval for the said course.

Attached:

- · Departmental proceeding
- Time-Table
- Syllabus
- Question Paper Pattern
- Admission form

Smt. M. N. Gadsing Co-ordinator Head, Department of Mathematics Jawahar Arts, Science & Commerc. Of get

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trige Jawahar Arts, Science & Commerce College Anadur, Tal. Tuliacur. Dist. Osmanebad



Shikshan Prasarak Mandal, Anadur's

Jawahar Arts, Science & Commerce College,

Anadur, Tq. Tuljapur, Dist. Osmanabad

Department of Mathematics

Conducting Co-curricular course

"Introduction to Calculus"

1. Name of Department:

Mathematics

2. Type of Programme:

value added / skill based certificate course

3. Title of Programme:

Certificate course in "Introduction to Calculus"

4. Name of Co-ordinator:

Smt. Madhuri Nivrutti Gadsing

4. Faculty offered:

B.Sc. I

5. Name of Teachers:

Shri. S. D. Agalave

Smt. M. N. Gadsing

6. Duration:

30 hours

Smt. M. N. Gadsing

(Co-ordinator)

Shri. S.D. Agalave

Head, Department of Mathematic

Anadur, Dist. Osmanabad - #13 503

Principal Principal

Anader Tol

दरितांचे तिमिर जावो !



Shikshan Prasarak Mandal's Anadur

JAWAHAR ART'S, SCIENCE & COMMERCE COLLEGE, ANADUR

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Principal :- Dr.Smt. M.B. Jadhav(Mob.9960242667)

🕿 :- (02471) 246037, 246737

Ref. No. /J SC/

Date: 16 07 2018

То, The Head. Department of Mathematics, Jawahar ASC College, Anadur, Tq. Tuljapur, Dist. Osmanabad.

Subject: Approval to conduct the certified course for students of science.

As per the decision taken in Local Management Committee, you are directed to conduct the Certificate course in Introduction to Calculus in your department for the students of our college. The course should be of 30 hours and be conducted in the academic year 2018-19.

Convey your timetable of the said course to the timetable committee so as to avoid any overlapping of lecturers.

Jawahar Arts, Science & Commerce College Anadur, Tal. Tuljapur, Dist. Osmanabad

द्रितांचे तिमिर जादो ।



Shikshan Prasarak Mandal's Anadur

JAWAHAR ART'S, SCIENCE & COMMERCE COLLEGE, ANADUR

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Shri. B.F.Kasture

Secretary: Shri. S.N. Alure Guruji

/C Principal :- Dr.Smt. M.B. Jadhav(Mob.9960242667)

2 :- (02471) 246037, 246737

Ref.No.JA: C/Math/Syll/BOS/2018-19/

Date 19/07/2018

To.

1) Shri. S. D. Agalave
Ad-hoc Board in Mathematics
JASC College, Anadur,
Tq. Tuljapur, Dist. Osmanabad
Mob:9921326637

3} Smt. M. N. Gadsing
Ad-hoc Board in Mathematics
JASC College, Anadur,
Tq. Tuljapur, Dist. Osmanabad.
Mob: 9421357945

2) Shri. H. S. Bhosale Ad-hoc Board in Mathematics Shrikrushna Mahavidyalaya, Gunjoti Tq. Omerga, Dist. Osmanabad. Mob: 9422467639

4) Shri N. B. JadhavAd-hoc Board in MathematicsY. C. College, Tuljapur,Tq. Tuljapur, Dist. OsmanabadMob:9421353759

Subject: Constitution of Ad-hoc Board in Mathematics (Certificate course in Introduction to Calculus)

Sir/Madam,

I am to inform you're that the Hon'ble Principal is pleased to nominate you as a Member/Chairman on the Ad-hoc Board in Mathematics for year 2018-19 as per provision statute-159 of the university act.

While requesting you to accept this invitation to work on the Ad-hoc Board. I do realize your busy moments in your own field. Yet in view of your expertise in the subject. I shall be thankful if you accept the membership of the Ad-hoc Board for enriching the academic standards of the university through your valuable contribution.

Your appointment shall be governed by and subject to the provisions of the Maharashtra Public University Act, 2016 as amended from time to time.

Kindly communicate your acceptance at the earliest.

Principal

Jawahar Arts, Science & Commerce College Anadur, Yal, Yuliapur, Dist. Osmanahad.

Shikshan Prasarak Mandal, Anadur's

Jawahar Arts, Science & Commerce College,

Anadur, Tq. Tuljapur, Dist. Osmanabad

Date: 19 / 07/ 2018

BOS Meeting Proceeding

As per requested all BOS member are gathered together to discuss regarding the syllabus of certificate course in Introduction to Calculus going to conduct by department of Mathematics. In this meeting under the chairperson of Head of Department Shri. S. D. Agalave, discussion made on designing syllabus as well as how to implement the said course smoothly and fruitful. All members put their view and finally decided the syllabus, duration of one month regular with day to day activities. After vote of thanks expressed by Smt. M. N. Gadsing, the said meeting is over.

Shri. H. S. Bhosale

Co-ordinator

Smt. M. N. Gadsing

B. Jadhav

har Arts, Science & Commerce College. Anadur, Tal. Tulid sir Dist. Osmanabad



Shikshan Prasarak Mandal's, Anadur

Jawahar Arts, Science & Commerce College,

Anadur, Tq. Tuljapur, Dist. Osmanabad -413603

Syllabus of Certificate Course in "Introduction to Calculus"

- I. Year of Implementation: Syllabus will be implemented from June, 2018 onwards.
- II. Objective:
 - To impart knowledge of various areas related to Introduction to Calculus.
 - To prepare the students to accept the challenges in life sciences/Competitive Examinations
- III, ELIGIBILITY:
 - B. Sc. Appear.
- IV. Examination Pattern:
 - MCQ Test.
- V. MEDIUM OF INSTRUCTION: The medium of instruction shall be in English.
- VI. Passing Marks for Certificate Course "Introduction to Calculus": A minimum of 35% marks in theory is required for passing.
- VII. Course Duration- 30 Hrs.

Course Content-Syllabus

Chapter 1. Real Numbers

Study of different kinds of numbers, decimal expansions and approximations, Fundamental operations on Rational Numbers, Open and Closed intervals. [8 periods]

Chapter 2. Functions

Introduction, Definition of function, Types of function- quadratic, cubic and general power and polynomial functions; exponential and logarithmic functions; and trigonometric functions; composition and inversion function. [6 periods]

Chapter 3. Introducing the Differential Calculus

Introduction, Derivative of a function, derived function, derivability implying continuity, geometrical interpretation of derivative, higher order derivative, Leibniz theorem and its applications. [8 periods]

Chapter 4. Introducing the Integral Calculus

Introduction, Slopes of tangent lines and areas under curves. Fundamental theorem of Calculus, Definite integral and indefinite integral, method of integration by substitution. Properties of odd and even functions. [8 periods]

Recommended Readings

- 1] Differential Calculus Shanti Narayan and P.K.Mittal
- 2] Differential Calculus Amit Agarwal
- 3] Integral Calculus Shanti Narayan and P.K.Mittal
- 4] Integral Calculus Amit Agarwal
- 5] Number Theory Hari Kishan

Principal
Jawahar Arts, Science & Commerce Colfoge
Anadur, Tal. Turseur, U.St. Osmanshad





Shikshan Prasarak Mandal's Anadur

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President :-

Shri. B.F.Kasture

Secretary :- Shri. S.N. Alure Guruji

Principal: - Dr.Smt. M.B. Jadhav(Mob.9960242667)

🕿 :- (02471) 246037, 246737

ef. No. /JASC/

Date: 21/07/2018

Notice

All the students of science faculty are hereby informed that the Department of Mathematics is going to conduct a value added / skill based certificate course in "Introduction to Calculus" during this academic year 2018-19 from of / 09 / 2018 to 10 / 20 / 2018 (30 hours).

The interested students may enrol their name with Smt. M. N. Gadsing at Department of Mathematics before 31/08/2018

Smt. M. N. Gadsing

(Co-ordinator)

Head, Department of Mathematics Jawahar Arts, Scillera & Commercia. Anadur, Dist, Osmoria

Principal Principal

Jawaher Arts, Science & Commerce College Anadur, Tal. Tuljapur, Dist. Osmanabad.

Jawahar Arts, Science and Commerce College, Andur

Department of Mathematics

Add on Course on Introduction to Calculus

Enrolment List of Students 2018-19

Sr. No	Roll Number	Name of Student	Class	Mobile No.
1	AA-02	Ku. Madane Nikita Haridas	B.Sc-I	9420203870
2	AA-25	Ku. Madole Nikita Siddeshwar	B.Sc-I	9049604915
3	AA-48	Makandar Mudassir Rajak	B.Sc-I	8698700992
4	AA-54	Makandar Sohel Mahatab	B.Sc-I	9527080587
5	AA-128	Manale Shubham Angad	B.Sc-I	9850407447
6	AA-32	Mane Pradeep Kumar	B.Sc-I	7775038153
7	AA-52	Mokashe Pankaj Mahadev	B.Sc-I	8625937102
8	AA-131	Mokashe Shubham Kalidas	B.Sc-I	9850407447
9	AA-107	Ku. More Rupali Ratan	B.Sc-J	8208177753
10	AA-98	Ku. Mule Rohini Ramesh	B.Sc-I	9146930015
1.1	AA-92	Mule Shrishaiiya Shivaraj	B.Sc-I	9404513830
_12	AA-49	Ku. Mule Supriya Tatyarao	B.Sc-I	9921163183
13	AA-61	Murshad Saddam Daud	B.Sc-I	673813947
14	AA-07	Nadaf Akil Rukumtola	B.Sc-I	8208652546
15_	AA-99	Ku. Nalge Rashmi Suryakant	B.Sc-I	7157653019
16	AA-31	Naykode Abhishek Dilip	B.Sc-I	8788449495
_17	AA-100	Panchal Ankush Vitthal	B.Sc-I	9689224367
18_	ΛΛ-122	Patel Mo. Aayaj Rafik	B.Sc-I	9850407447
19	AA-91	Patel Rehiman Mujib	B.Sc-I	9130990995
	AA-130	Ku. Patil Sandhyarani	B.Sc-I	9503964233
21	AA-132	Ku. Patil Seetabai Ashok	B.Sc-I	8975490418
22	AA-127	Ku. Patil Sonali Bajrang	B.Se-I	9834989524
_23	AA-125	Patil Suraj Sanjay	B.Sc-1	8208105104
24	AA-80	Ku. Patu Priyanka Vijay	B.Sc-I	9527357113
25	AA-10	Patu Shubham Satish	B.Sc-1	9130790854
26	ΑΛ-07	Pawar Nikhil Sharnu	B.Sc-I	9834903709
27	ΛΛ-57	Pawar Sambhaji Kumar	B.Sc-I	7620388470
28	AA-42	Pawar Vishal Mamu	B.Sc-1	8329207231
29	AA-24	Rajmane Atul Rajendra	B.Sc-I	7262994021
30	AA-86	Rajmane Vaibhav Shrishail	B.Sc-I	9421357945
31_	AA-39	Rathod Arun Vijay	B.Sc-I	7249599919
32	AA-37	Rathod Kumar Neminath	B.Sc-l	7083618389
33	AA-50	Ku. Rathod Pallavi Rajendra	B.Sc-I	8308051409
34	AA-75	Rathod Pravin Bapurao	B.Sc-I	9588470051
35	AA-113	Ku. Rathod Sonali Shivaji	B.Sc-I	9011511292

Smt. M. N. Gadsing

Co-ordinator

Head, Department of Mathematics

Jawahar Allif Science & Commence Callege

Anadur, Dist. Osmano

Pripriedoal

Jawreher Arts, Science & Commerce College Anadur, Tal Tuliapur, Dist. Osmanabas

Jawahar Arts, Science and Commerce College, Anadur

Department of Mathematics

Add on Course in Introduction to Calculus

Time Table - 2018-19

Sr. No.	Name of lecturer	Time	Days
I	Smt. M. N. Gadsing	04.00 to 05.00	Mon, Tue, Wed
II	Shri. S. D. Agalave	04.00 to 05.00	Thus, Fri, Sat

Smt. M. N. Gadsing

(Co-ordinator)

Head, Department of Mathematics lewster Arts, Science & Commerce Cole.

Jawahar Arts, Science & Commerce College
Anadur Tat Tohamir (1) st. Osmanabad



दुरिकारे तिरित्र जानी । Shikshan Prasarak Mandal's

JAWAHAR ART'S, SCIENCE & COMMERCE COLLEGE, ANADUR

Tq. Tuljapur, Dist. Osmanabad - 413 603 NAAC - GRADE - B++ (CGPA 2.81)

President : Shrl. B. F. Kasture

Secretary : Shri. S. N. Alure Guruji

Principal * Dr. Umakant Chanshetti (Mob.: 9420486874)

Ph.: (02471) 246037, 246737

Date: 1111019018

Notice

All the students enrolled in certificate course in **Introduction to Calculus** run by Department of Mathematics are hereby informed that the Department of Mathematics is going to conduct a final test on "**Introduction to Calculus**" during this month on //

Time-Table for Exam 2018-19

Sr.	Roll.	Name of Student	Hall No.	
1	AA-02	Ku, Madane Nikita Haridas		
2	AA-25	Ku. Madole Nikita Siddeshwar		
3	AA-48	MakandarMudassir Rajak		
4	AA-54	Makandar Sohel Mahatab		
5	AA-128	Manale Shubham Angad		
6	AA-32	Mane Pradeep Kumar		
7	ΛΑ-52	Mokashe Pankaj Mahadev		
8	AA-131	Mokashe Shubham Kalidas		
9	AA-107	Ku. More Rupali Ratan	04	
10	AA-98	Ku. Mule Rohini Ramesh		
11	AA-92	Mule Shrishaliya Shivaraj		
12	AA-49	Ku. Mule Supriya Taryarao		
13	AA-61	Murshad Saddam Daud		
14	AA-07	Nadaf Akil Rukumtola		
15	AA-99	Ku. Nalge Rashmi Suryakant		
16	AA-31	Naykode Abhishek Dilip	1	
17	AA-100	Panchal Ankush Vitthal		
18	AA-122	Patel Moaayaj Rafik		
19	AA-91	Patel Rehiman Mujib		
20	AA-130	Ku. Patil Sandhyarani		
21	AA-132	Ku. Patil Seetabai Ashok	07	
22	AA-127	Ku. Patil Sonali Bajrang		
23	ΛΛ-125	Patil Suraj Sanjay		
24	AA-80	Ku. Patu Priyanka Vijay		
25	AA-10	Patu Shubham Satish		
26	AA-07	Pawar Nikhil Sharnu		
27	AA-57	Pawar Sambhaji Kumar	M	
28	ΛΛ-42	Pawar Vishal Mamu	07	
29	AA-24	Rajmane Atul Rajendra	Pr	
30	AA-86	Rajmane Vaibhav Shrishail	Jawahar Arts, Schal Anader Tal. Yur	

Jawahar Arts, Science & Commerce Cell Anader, Tot. 16: 11:01 Commerce

31	AA-39	Rathod Arun Vijay	
32	AA-37	Rathod Kumar Neminath	
33	AA-50	Ku. Rathod Pallavi Rajendra	
34	AA-75	Rathod Pravin Bapurao	
35	AA-113	Ku. Rathod Sonali Shivaji	

Smt. M. N. Gadsing Co-coordinator

SHEET. SACATION S. D. Head, Department of Mathematics Jawaher Aris, Science & Commerce Cellege Anadur, Diet. Osmanabad - 413 803

Principal Principal

Jawaher Arts, Science of Commerce College Anadur, Tal, Turjapur, et al. Osmanabad.

Jawahar Arts, Science and Commerce College, Anadur

Department of Mathematics

Add on Course in "Introduction to Calculus"

Question Paper – 2019	Date: 11 10 2018
All questions are necessary Each Ques. Carry 2 mark	ks. Total Marks: 50
1. The largest number by which the product of three consecutive	even numbers is always
divisible is	
a) 16 b) 24 c) 48 d) 96	
2. If $\sqrt{2^n} = 64$, then n=?	
a) 8 b) 10 c) 6 d) 12	
3. The sum first 30 natural numbers is	
a) 365 b) 465 c) 265 d) 165	
$4. 1^2 + 2^2 + 3^2 + \dots + 10^2 = \dots$	
a) 385 b) 205 c) 365 d) 285	
5. The domain of the function $y = \sqrt{(x-1)(x-2)}$ is	•
a)]1,2[b) [1,2[c)[1,2] d)]1,2]	
6. The range of the function $y = x^2$ is	
a) $[0, \infty[$ b) $]-\infty, \infty[$ c) $]0, \infty[$ d) None of these	
7. The function $f(x) = x \ \forall x \in R$ is called	
a) Constant function b) Inverse function c) Identity function	d) None of these
8. In a certain office, $\frac{1}{3}$ of the workers are women, $\frac{1}{2}$ of the wom	3
married women have children. If $\frac{3}{4}$ of the men are married and $\frac{3}{4}$	of the married men have
children, what part of workers are without children?	,
a) $\frac{5}{18}$ b) $\frac{4}{9}$ c) $\frac{11}{18}$ d) $\frac{17}{36}$	
9. If we multiply a fraction by itself and divide the product by it	a racing and the fraction thus
	s recipiocar, the fraction mus
obtained is $18\frac{26}{27}$. The original fraction is	
a) $\frac{8}{27}$ b) $2\frac{2}{3}$ c) $1\frac{1}{3}$ d) None of these	Λ.
$10.\frac{17.28+?}{3.6\times0.2}=2$	11
3,07,0,2	Military.
a) 120 b) 1.20 c) 12 d) 0.12	10

c) $[-\pi, 0]$ d) [-1, +1]

11. Domain of Sin⁻¹x is

12 Range of tan⁻¹x is

b) $[0, \pi]$

a) [0, 1]

Principal

Jawaher Arts, Science & Commerce College

Anadur, Tal. Turn, or, U.St. Osmanabad.

a) $\left \frac{\pi}{2}, -\frac{\pi}{2} \right $ b) $\left -\frac{\pi}{2}, \frac{\pi}{2} \right $ c) $\left 0, \frac{\pi}{2} \right $ d) $\left[0, \frac{\pi}{2} \right]$							
13. A function f is said to be derivable at c if exists.							
a) $\lim_{h\to 0} \frac{f(c+h)-f(c)}{h}$ b) $\lim_{h\to 0} \frac{f(c+h)+f(c)}{h}$ c) $\lim_{h\to 0} \frac{f(c)-f(c+h)}{h}$ d) $\lim_{h\to 0} \frac{f(c)-f(c+h)}{h}$							
14. The function f is said to be finitely derivable at c if the derivative at c is							
a) infinite b) dose not exists c) finite d) None of these							
15. Function $f(x) = x x $ is at the origin.							
a) Continuous b) Derivable c) Not derivable d) Not continuous							
16. The derivative of constant function is							
a) Zero b) Constant c) Non zero d) None of these							
17. The derivative of cosx is							
a) $\sin x$ b) - $\sin x$ c) $\cos x$ d) - $\cos x$							
18. The derivative of tan ⁻¹ x is							
a) $-\frac{1}{1+x}$ b) $\frac{1}{1-x^2}$ c) $\frac{1}{1+x}$							
19. The derivative of logx is							
a) $\frac{1}{x}$ b) $-\frac{1}{x}$ c) $\frac{1}{x^2}$ d) $-\frac{1}{x^2}$							
$20. \int x^n dx = \dots$							
a) nx^{n-1} b) nx^{n+1} c) $\frac{x^{n+1}}{n+1}$ d) $-\frac{x^{n+1}}{n+1}$							
21. If u and v are functions of x, then $\int uv dx = \cdots$							
a) $u \int v dx + \int u' [\int v dx] dx$ b) $-u \int v dx + \int u' [\int v dx] dx$							
c) $u \int v dx - \int u' [\int v dx] dx$ d)None of these							
22. $\int_a^b f(x)dx$ is called							
a) Definite integral b) Finite integral c) Indefinite integral d) None of these							
$23. \int sec^2 x dx =$							
a) tanx b) secx.tanx c) secx d) tan ² x							
$24. \int \log x dx = \dots$							
a) $x \log x + x$ b) $x \log x - x$ c) $\frac{\log x - x}{x}$ d) $\frac{\log x + x}{x}$							
$25. \int \frac{1}{\sqrt{1-x^2}} dx = \cdots$							
a) $\sin^{-1}x$ b) $\cos^{-1}x$ c) $\tan^{-1}x$ d) $\cot^{-1}x$							

Jawahar Arts, Science & Commerce College Anadur, Tal, Tukanyr, D.a., Osmanabad



Jawahar Arts, Science and Commerce College, Anadur Department of Mathematics

Add on Course in Introduction to Calculus

Presenty Report - 2019

Sr. No	Roll. Number	Name of Student	Sign
1	AA-02	Ku. Madane Nikita Haridas	Witim
2	AA-25	Ku. Madole Nikita Siddeshwar	Madele
3	AA-48	MakandarMudassir Rajak	Makendar
4	AA-54	Makandar Sohel Mahatab	Sahel
5	AA-128	Manale Shubham Angad	Edukham
6	AA-32	Mane Pradeep Kumar	March
7	AA-52	Mokashe Pankaj Mahadev	Mokagher
8	AA-131	Mokashe Shubham Kalidas	Foule
9	AA-107	Ku. More Rupali Ratan	Hora
10	AA-98	Ku. Mule Rohini Ramesh	Hule
11	ΛA-92	Mule Shrishaliya Shivaraj	Mules
12	AA-49	Ku. Mule Supriya Tatyarao	Suppya
13	AA-61	Murshad Saddam Daud	Julian
14	AA-07	Nadaf Akil Rukumtola	Atil
15	ΛA-99	Ku. Nalge Rashmi Suryakant	Feler
16	AA-31	Naykode Abhishek Dilip	Allslik
17	AA-100	Panchal Ankush Vitthal	tokuda
18	AA-122	Patel Moaayaj Rafik	Patel Monapy
19	AA-91	Patel Rehiman Mujib	Former 1

Principal Owners College

20	AA-130	Ku. Patil Sandhyarani	SPL!
21	AA-132	Ku. Patil Seetabai Ashok	Sukabel
22	AA-127	Ku. Patil Sonali Bajrang	Family
23	AA-125	Patil Suraj Sanjay	Stuny
24	AA-80	Ku. Patu Priyanka Vijay	Platu
25	AA-10	Patu Shubham Satish	Slullam
26	AA-07	Pawar Nikhil Sharnu	P.MIAI.
27	AA-57	Pawar Sambhaji Kumar	Sulligi
28	AA-42	Pawar Vishal Mamu	Vishal P.
29	AA-24	Rajmane Atul Rajendra	Rajmanue
30	AA-86	Rajmane Vaibhav Shrishail	Varblar
31	AA-39	Rathod Arun Vijay	Ann
32	AA-37	Rathod Kumar Neminath	Harmon
33	AA-50	Ku. Rathod Pallavi Rajendra	Pedhool.
34	AA-75	Rathod Pravin Bapurao	Eller
35	AA-113	Ku. Rathod Sonali Shivaji	Fulli

Smt. M. N. Gadsing Co-coordinator

SHIRE, AGALIAVE S. D. Head, Department of Mathematics Jawahar Arts, Science & Commerce College Anadur, Dist. Osmanabad - 413 603

Principal Principal

Javraher Arts, Science & Commerce College Anadur, Tal. Tuliamur, Dist. Osmenebad



Jawahar Arts, Science and Commerce College, Anadur Department of Mathematics

Add on Course in Introduction to Calculus

Mark List - 2019

Sr. No	Roll. Number	Name of Student	Obtained Marks	Out of Marks
1	AA-02	Ku. Madane Nikita Haridas	37	50
2	AA-25	Ku. Madole Nikita Siddeshwar	41	50
3	AA-48	MakandarMudassir Rajak	38	50
4	AA-54	Makandar Sohel Mahatab	39	50
5	AA-128	Manale Shubham Angad	39	50
6	AA-32	Mane Pradeep Kumar	45	50
7	AA-52	Mokashe Pankaj Mahadev	37	50
8	AA-131	Mokashe Shubham Kalidas	38	50
9	AA-107	Ku. More Rupali Ratan	43	50
10	AA-98	Ku. Mule Rohini Ramesh	38	50
11	AA-92	Mule Shrishaliya Shivaraj	44	50
12	AA-49	Ku. Mule Supriya Tatyarao	37	50
13	ΑΛ-61	Murshad Saddam Daud	38	50
14	AA-07	Nadaf Akil Rukumtola	38	50
15	AA-99	Ku. Nalge Rashmi Suryakant	38	50
16	AA-31	Naykode Abhishek Dilip	41	50
17	AA-100	Panchal Ankush Vitthal	39	50
18	AA-122	Patel Moaayaj Rafik	39	50
19	AA-91	Patel Rehiman Mujib	38	50

Maria Canada San Caran

20	AA-130	Ku. Patil Sandhyarani	42	50
21	AA-132	Ku. Patil Seetabai Ashok	38	50
22	AA-127	Ku. Patil Sonali Bajrang	43	50
23	AA-125	Patil Suraj Sanjay	37	50
24	AA-80	Ku. Patu Priyanka Vijay	37	50
25	AA-10	Patu Shubham Satish	46	50
26	AA-07	Pawar Nikhil Sharnu	38	50
27	AA-57	Pawar Sambhaji Kumar	39	50
28	AA-42	Pawar Vishal Mamu	39	50
29	AA-24	Rajmane Atul Rajendra	38	50
30	AA-86	Rajmane Vaibhav Shrishail	42	50
31	AA-39	Rathod Arun Vijay	37	50
32	AA-37	Rathod Kumar Neminath	38	50
33	AA-50	Ku. Rathod Pallavi Rajendra	43	50
34	AA-75	Rathod Pravin Bapurao	37	50
35	AA-113	Ku. Rathod Sonali Shivaji	41	50

Smt. M. N. Gadsing Co-coordinator BHIRL: ACALANTE S. D. Head, Department of Mathematics James Arts, Science & Commercial Anadur, Dist. Osman.

Principal Principal

Jassahar Arts, Science & Commerce Colleg Anadur, Tal. To Demanded.



Shikshan Prasarak Mandal, Anadur's

Jawahar Arts, Science & Commerce College,

Anadur, Tq. Tuljapur, Dist. Osmanabad

Date: 12 110 2018

Final Report of Certificate Course On "Introduction to Calculus -2018-19"

Certificate course in **Introduction to Calculus** is completed successfully with fruitful result. As per notice issued by department of Mathematics for students to made registration for this course, within little time 35 students registered their names for said course. Meanwhile we have completed all the required formalities like LMC approval, syllabus design, and lecture distribution and also to nominate BOS members too. We have engaged 30 hours. Meanwhile we have also engaged the doubt session also. Finally after syllabus completion we held final exam for said course and all the students enrolled for **Introduction to Calculus** certificate course successfully passed with good percentage marks. The nature of question paper is of 50 marks. (25 question carry 2 marks each). Near about 11 students scored more than 40 marks, while remaining students scoring in between 37 to 40 marks. After result declaration we have organized a certificate distribution and award function for the students of course in kind presence of Hon. Principal. Dr. Umakant Chanshetty sir and our staff members' of Mathematics department.

Smt. M. N. Gadsing Co-coordinator

Head, Department of Mathematics
Jawahar Arts, Science & Commerce College
Anadur, Dist. Osmanabad - 413 803

Jawahar Arts, Science & Commerce College Anadur, Tal. Tuljapur, Dist. Osmanebad,