



WELCOME NAAC PEER TEAM

Sri Madan Mohan Goel
Chairperson

Sri Vedamurthy AB
Member Coordinator
D.Rajendra Kulakarni
Member

DEPARTMENT OF MATHEMATICS
GOVERNMENT DEGREE COLLEGE
NARSAPUR, MEDAK. Dist



FACULTY DETAILS

Name of the Faculty : V.Hemanth Kumar Chary

Educational Qualification : M.Sc. & APSET

Designation : Lecturer & In charge of the Department

Date of Appointment : 04-09-2013

Date of Joining : 04-09-2013

Teaching Experience : 9 Years



ABOUT THE DEPARTMENT

- **The department was established in 2012 in this college. The Department started with course B.Sc.(MPC)Telugu Medium, as Mathematics is one of the optional subject.**
- **At present one lecturer is working in this department from 2013 to till today.**
- **“B.Sc. Computers” was introduced in the academic year 2018-2019 as restructured course with Physics, Mathematics and Computer science as combination.**
- **In the Academic year 2019-20, the Department have been offering B.Sc (Physical Science) restructured Courses with three Groups (MPC, MPCs & MCCs) in English Medium only.**

Curriculum Planning & Implementation

1

- Follow the Almanac of Osmaniya University

2

- Syllabus framed by the OU, we follow the same.

3

- Departmental semester plan is prepared at beginning of odd and even semesters.

4

- Planning the activities to support the Curriculum.

5

- For effective transmission the curriculum, faculty use ICT in teaching

6

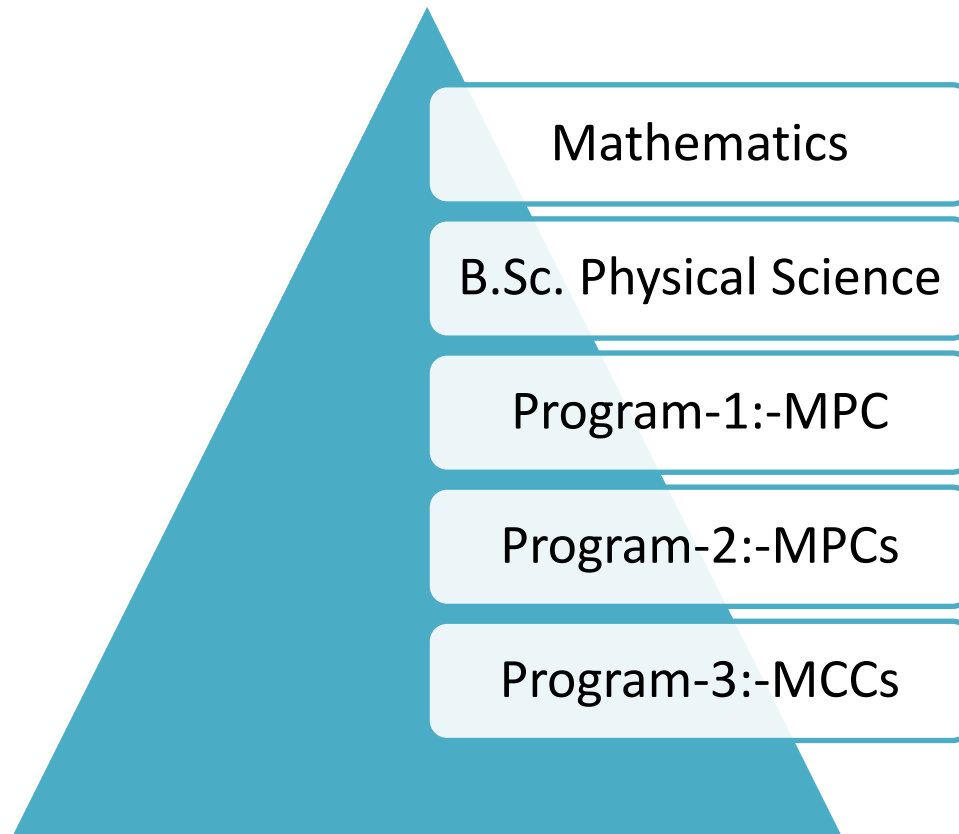
- Planning the Departmental related activities.

COURSES OFFERED BY THE DEPARTMENT OF MATHEMATICS

S. No	Name of the Course	Department	Intake	Year of establishment	Nature of the course
1	B.Sc. MPC (T/M)	Physical Science	40	2012	Mathematics, Physics, Chemistry(MPC)
2	B.Sc. MPC(E/M&T/M) MPCs(E/M)	Physical Science	60	2018	Mathematics, Physics, Chemistry or Computer Science (MPC or MPCs)
3	B.Sc. MPC (E/M) MPCs (E/M) MCCs (E/M)	Physical Science	60	2019	Mathematics, Physics or Chemistry or Computer Science (MPC or MPCs or MCCs)

UG PROGRAMS OFFERED WITH MATHEMATICS

The following UG programs with mathematics are being offered at the college



MODEL CURRICULUM (2016-17) FOR CBCS

B.Sc Course Structure Template

B.Sc. PROGRAMME

FIRST YEAR SEMESTER-I				
Code	Course Title	Course Type	HPW	Credits
BS101	Communication	AECC-1	2	2
BS102	English	CC-1A	5	5
BS103	Second Language	CC-2A	5	5
BS104	Optional - I Differential Calculus	DSC-1A	4 T + 2P = 6	4+1=5
BS105	Optional - II	DSC-2A	4 T + 2P = 6	4+1=5
BS106	Optional - III	DSC-3A	4 T + 2P = 6	4+1=5
			30	27
SEMESTER-II				
BS201	Environmental Studies	AECC-2	2	2
BS202	English	CC-1B	5	5
BS203	Second Language	CC-2B	5	5
BS204	Optional - I Differential Equations	DSC-1B	4 T + 2P = 6	4+1=5
BS205	Optional - II	DSC-2B	4 T + 2P = 6	4+1=5
BS206	Optional - III	DSC-3B	4 T + 2P = 6	4+1=5
			30	27

B.Sc. PROGRAMME

SECOND YEAR SEMESTER-III					
BS301	A/B Logic & Sets/Theory of Equations	SEC-1	2	2	
BS302	English	CC-1C	5	5	
BS303	Second Language	CC-2C	5	5	
BS304	Optional - I Real Analysis	DSC-1C	4 T + 2P = 6	4+1=5	
BS305	Optional - II	DSC-2C	4 T + 2P = 6	4+1=5	
BS306	Optional - III	DSC-3C	4 T + 2P = 6	4+1=5	
			30	27	
SEMESTER-IV					
BS401	C/D Transportation & Game Theory/ Number Theory	SEC-2	2	2	
BS402	English	CC -1D	5	5	
BS403	Second Language	CC-2D	5	5	
BS404	Optional - I Algebra	DSC-1D	4 T + 2P = 6	4+1=5	
BS405	Optional - II	DSC-2D	4 T + 2P = 6	4+1=5	
BS406	Optional - III	DSC-3D	4 T + 2P = 6	4+1=5	
			30	27	

THIRD YEAR SEMESTER-V				
Code	Course Title	Course Type	HPW	Credits
BS501	E/F Probability and Statistics/Mathematical Modelling	SEC-3	2	2
BS502	Lattice Theory	GE-1	2 T	2
BS503	Optional - I Linear Algebra	DSC-1E	3 T + 2P = 5	3+1=4
BS504	Optional -II	DSC-2E	3 T + 2P = 5	3+1=4
BS505	Optional -III	DSC-3E	3 T + 2P = 5	3+1=4
BS506	Optional -I A/B/C Solid Geometry/ Integral Calculus	DSE- 1E	3 T + 2P = 5	3+1=4
BS507	Optional - II A/B/C	DSE-2E	3 T + 2P = 5	3+1=4
BS508	Optional - III A/B/C	DSE-3E	3 T + 2P = 5	3+1=4
			34	28
SEMESTER-VI				
BS601	G/H Boolean Algebra/Graph Theory	SEC-4	2	2
BS602	Elements of Number Theory	GE-2	2 T	2
BS603	Optional - I Numerical Analysis	DSC-1F	3 T + 2P = 5	3+1=4
BS604	Optional -II	DSC-2F	3 T + 2P = 5	3+1=4
BS605	Optional -III	DSC-3F	3 T + 2P = 5	3+1=4
BS606	Optional -I A/B/C Complex Analysis/ Vector Calculus	DSE- 1F	3 T + 2P = 5	3+1=4
BS607	Optional - II A/B/C	DSE-2F	3 T + 2P = 5	3+1=4
BS608	Optional - III A/B/C	DSE-3F	3 T + 2P = 5	3+1=4
			34	28
	TOTAL Credits			164

Summary of Credits

B.Sc. PROGRAMME

Sl. No.	Course Category	No. of Courses	Credits Per Course	Credits
1	AECC	2	2	4
2	SEC	4	2	8
3	CC	8	5	40
	Language	12	5	60
	DSC	6	4	24
	DSC			
4	DSE	6	4	24
5	GE	2	2	4
	TOTAL	40		164
	Optionals Total	24		108

MATHEMATICS COURSE STRUCTURE (2019-2020)

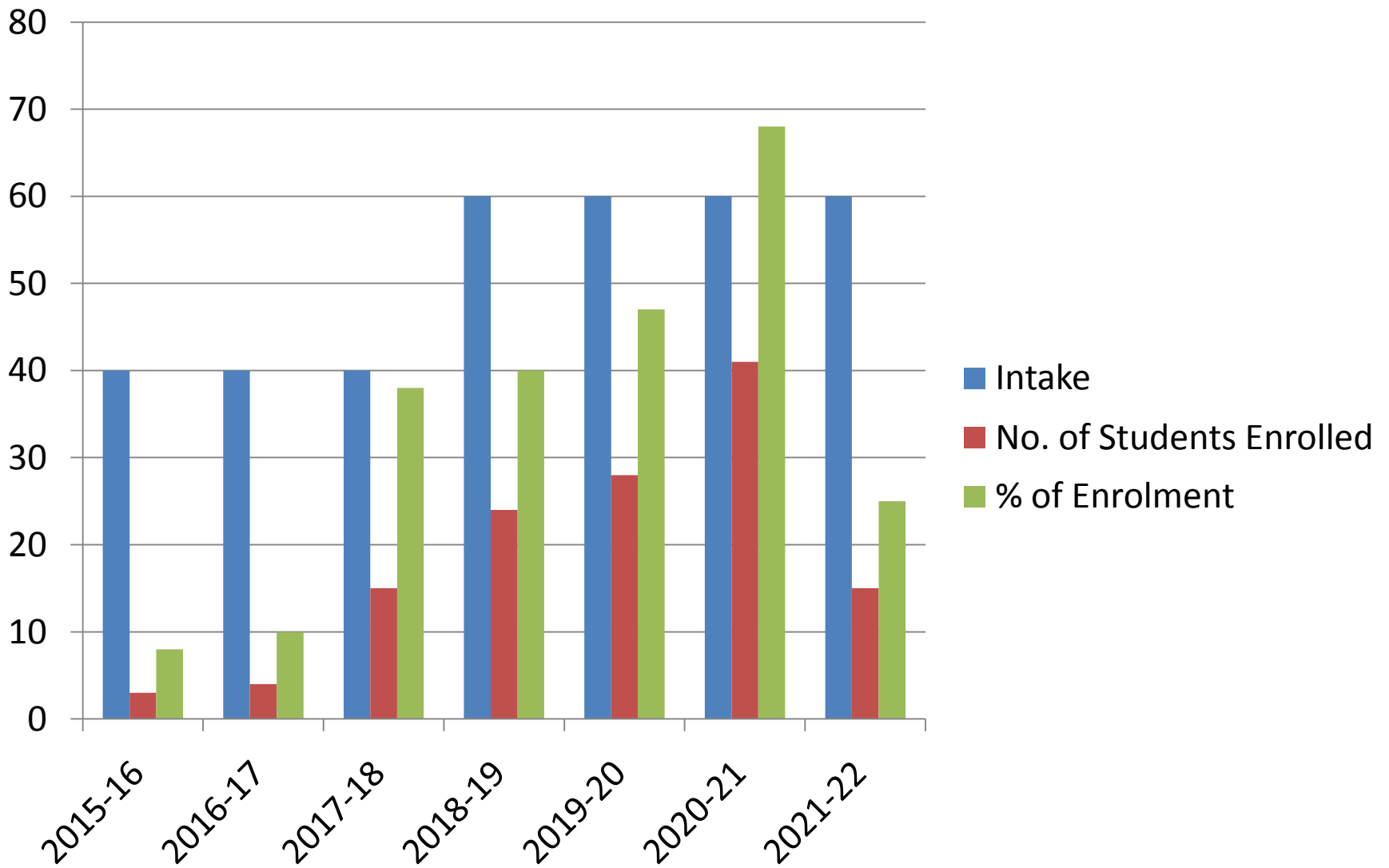
Paper	Semester	Subject	Hours/ per week	Hours/per week		Max. Marks	Credits
				Theory	*Tutorials		
DSC - I	I	Differential & Integral Calculus	6	5	1	100	5
DSC - II	II	Differential Equations	6	5	1	100	5
DSC - III	III	Real Analysis	6	5	1	100	5
DSC - IV	IV	Algebra	6	5	1	100	5
DSC - V	V	Linear Algebra	6	5	1	100	5
DSE – VI(A)	VI	(A) Numerical Analysis	6	5	1	100	5
DSE – VI(B)	VI	(B) Integral Transforms	6	5	1	100	5
DSE – VI(C)	VI	(C) Analytical Solid Geometry	6	5	1	100	5
SEC-I	III	Communication Skills (OR) Professional Skills	2	2	-	50	2
SEC-II	III	Theory of Equations (OR) Logic & Sets	2	2	-	50	2
SEC-III	IV	Leadership & Management Skill (OR) Universal Human Values	2	2	-	50	2
SEC-IV	IV	Number Theory (OR) Vector Calculus	2	2	-	50	2
Generic Elective	V-A or V-B	Basic Mathematics or Mathematics for Economics & Finance	4	4	-	100	4
Project/ Optional	VI**	Mathematical Modelling	4	4	-	100	4

Students Enrolment

Total Number students enrolled in the Physical Sciences with Mathematics combination 2015 to 2021

Academic Year	Intake	No. of Students Enrolled	% of Enrolment
2015-16	40	3	8%
2016-17	40	4	10%
2017-18	40	15	38%
2018-19	60	24	40%
2019-20	60	28	47%
2020-21	60	41	68%
2021-22	60	15	25%

Students Enrolment



Student Enrolment Gender Wise

Academic Year	Male	Female
2015-16	2	1
2016-17	2	2
2017-18	8	7
2018-19	10	14
2019-20	10	18
2020-21	25	16
2021-22	05	10

CATEGORY WISE STUDENT ENROLMENT

CATEGORY	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
SC	0	1	3	5	7	9	1
ST	2	0	2	2	3	7	1
BC	1	3	15	17	25	25	21
OC	0	0	0	1	1	2	0
Minority	0	0	1	0	0	0	0
Total	3	4	21	25	36	43	23

COURSE OUTCOMES

COURSE-1 : Differential Calculus

Outcome: By the time students complete the course they realize wide ranging applications of the subject.

COURSE-2 : Differential Equations

Outcome: After learning the course the students will be equipped with the various tools to solve few types' differential equations that arise in several branches of science.

COURSE-3 :Real Analysis

Outcome: After the completion of the course students will be in a position to appreciate beauty and applicability of the course.

COURSE-4 :Algebra

Outcome: On successful completion of the course students will be able to recognize algebraic Structures that arise in matrix algebra, linear algebra and will be able to apply the skills learnt in Understanding various such subjects.

COURSE-5 :Linear Algebra

Outcome: After completion this course students appreciate its interdisciplinary nature.

COURSE-6 :Solid Geometry

Outcome: Students understand the beautiful interplay between algebra & geometry.

COURSE-7 :Numerical Analysis

Outcome: Students realize the importance of the subject in solving some problems of algebra and calculus.

COURSE-8 :Vector Calculus

Outcome: Students realize the way vector calculus is used to addresses some of the problems of physics.

Result Analysis

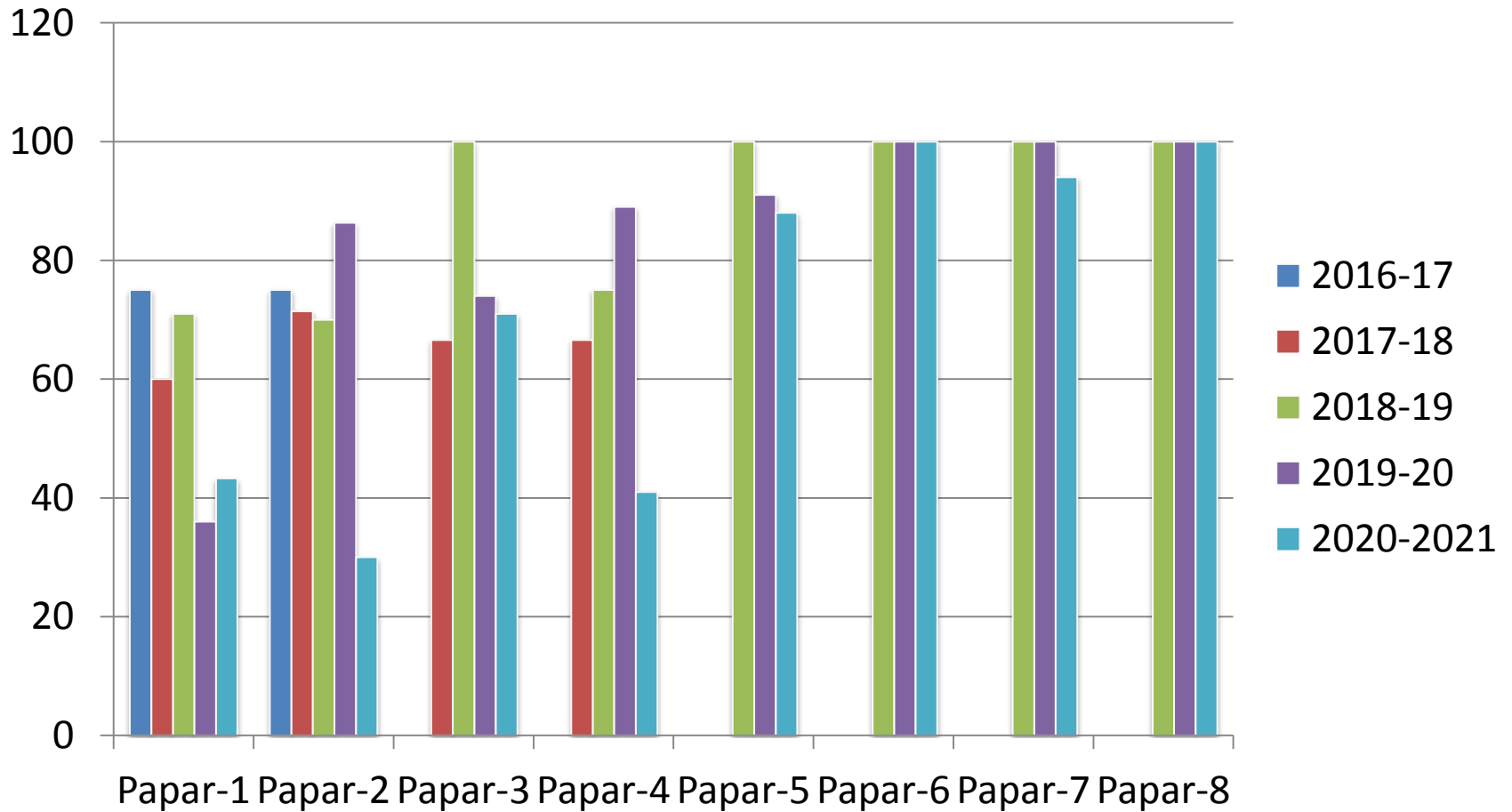
Result of last five years Paper wise (CBCS System)

A.Y	2016-17		2017-18		2018-19		2019-20		2020-21	
Paper	Appeared	Passed	Appeared	Passed	Appeared	Passed	Appeared	Passed	Appeared	Passed
Papar-1	4	3	15	9	24	17	28	10	30	13
Papar-2	4	3	14	10	23	16	22	19	27	8
Papar-3	...	...	3	2	12	12	19	14	21	15
Papar-4	...	...	3	2	12	9	18	16	22	9
Papar-5	...	...	...	...	2	2	11	10	16	14
Papar-6	...	...	...	...	2	2	11	11	16	16
Papar-7	...	...	...	...	2	2	11	11	16	15
Papar-8	...	...	...	...	2	2	11	11	16	16

Result Analysis Paper wise Percentage(%)

	2016-17	2017-18	2018-19	2019-20	2020-2021
Papar-1	75	60	71	36	43.3
Papar-2	75	71.4	70	86.3	30
Papar-3	..	66.6	100	74	71
Papar-4	...	66.6	75	89	41
Papar-5	...	...	100	91	88
Papar-6	...	...	100	100	100
Papar-7	...	...	100	100	94
Papar-8	...	...	100	100	100

Result Analysis Paper wise Percentage(%)



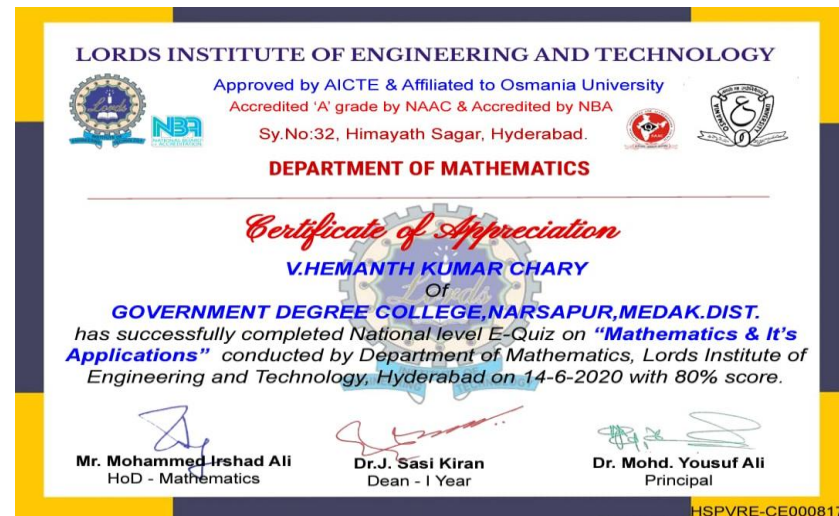
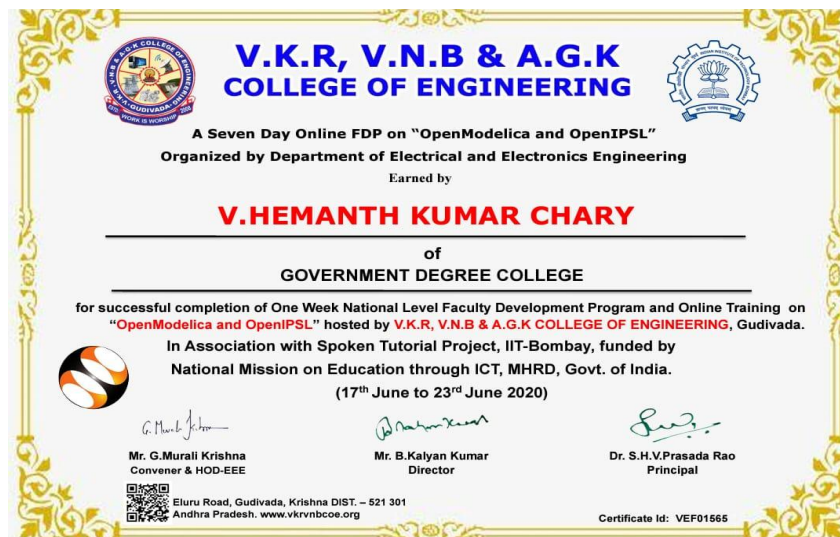
Result Analysis paper wise (YWS)

	2015-16		2016-17		2017-18	
	Appeared	Passed	Appeared	Passed	Appeared	Passed
Paper-1	1	1	..	..	..	..
Paper-2	1	1	1	1	..	..
Paper-3	8	1	1	1	1	1
Paper-4	8	1	1	1	1	1

Convener or Member in Various College Committees

S.No	Name Of The Committees	Convener/Member
1	Exam Brach	Coordinator
2	IQAC	Member
3	Dost	Coordinator

Faculty Development Programs



STUDENT STUDY PROJECTS

S.No	Title of the Project	Year	No. of Students	Name of the Mentor
1	Indian Mathematicians & their Research	2017	5	V.Hemanth Kumar Chary
2	The Importance of Mathematics in Competitive Exams	2018	5	V.Hemanth Kumar Chary
3	The Brain Game Sudoku Puzzle	2019	5	V.Hemanth Kumar Chary
4	Applications of Differential Equations	2022	6	V.Hemanth Kumar Chary

Student Study Projects



STUDENT PROGRESSION

S.NO	ACADEMIC YEAR	No.of students enrolled for PG
1	2015-16	1
2	2016-17	Nil
3	2017-18	1
4	2018-19	Nil
5	2019-20	Nil
6	2020-21	2

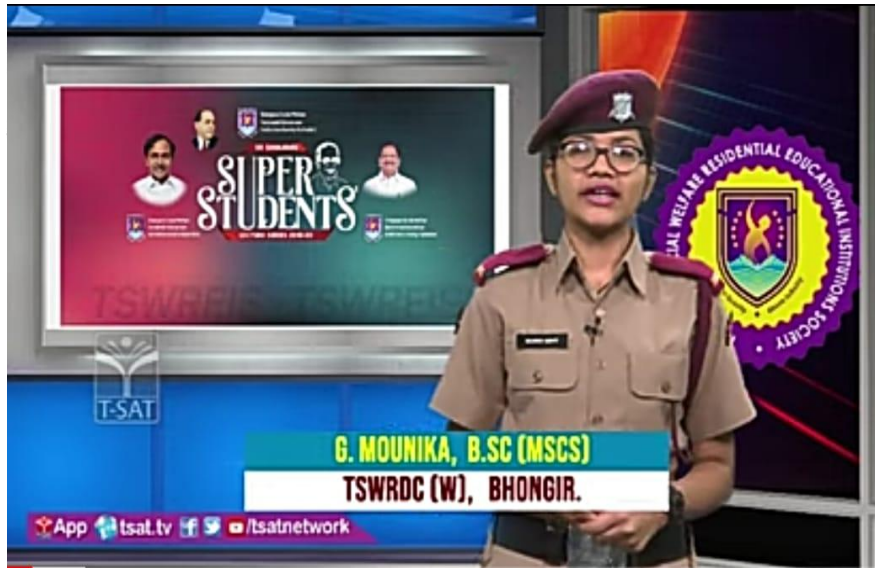
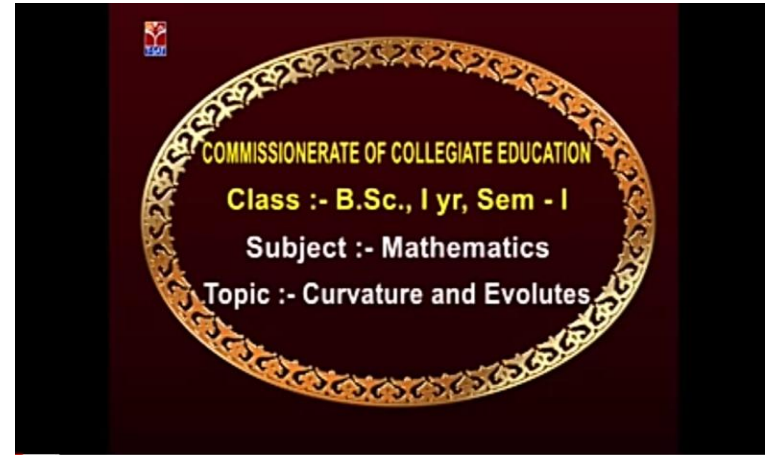
Mentor-Mentee System is Implemented

S.No	Academic Year	Mentor	Mentees
1	2018-19	V. Hemanth Kumar Chary	B.Sc.MPC Students
2	2019-20	V. Hemanth Kumar Chary	B.Sc.MPC Students
3	2020-21	V. Hemanth Kumar Chary	B.Sc.Physical Science Students
4	2021-22	V. Hemanth Kumar Chary	B.Sc.1 st &3 rd Year Students

Usage of ICT in teaching learning process

- Individual YouTube channels
- Power Point Presentations
- Google Forms
- Extension & Guest Lectures
- Quiz
- Assignment
- Group Discussion
- Student Seminars

T-SAT PRESENTATIONS



YouTube Lessons

Method-I To find y.p for $ax^2+bx+c=0$

Case(i):- If $f(x) \neq 0$, when $D > 0$ $y.p = \frac{-b \pm \sqrt{D}}{2a}$

Case(ii):- If $f(x) = 0$, when $D = 0$

then, we use the formula for find $y.p = \frac{-b}{2a}$

Sem-2, Differential Equations, Methods to solve Nonh...

No views · 8 mo ago

(ii) Associativity: For $a, b, c \in R$

$$(a+b)+c = a+(b+c)$$

$$a+(b+c) = a+(b+c)$$

$$= a+b+c = a+(b+c)$$

Therefore, $+$ is associative.

(iii) Identity: For $a \in R$

45:57

Semester-4, Solved Problems of...

36 views · 1 year...

0 likes 0 comments

Sem-1, Continuation of...

12:28

Sem-1, Continuation of...

37 views · 1 year...

2 likes 0 comments

Semester-1, Differential and...

19:44

Semester-1, Differential and...

43 views · 1 year...

2 likes 0 comments

Sem-6, Paper-8(B), Vec...

20:27

Sem-6, Paper-8(B), Vec...

18 views · 1 year...

0 likes 0 comments

GOVERNMENT DEGREE COLLEGE NARSAPUR, MEDAK, DIST

Department of Mathematics

SEMESTER-IV

Paper-4

Subject : Algebra

Topic : Cayley table Problems

V.Hemant Kumar Chary, Lecturer in Mathematics

Dr.P.Damodar, Principal, Gdc, Narsapur

GOVERNMENT DEGREE COLLEGE NARSAPUR, MEDAK, DIST

Department of Mathematics

SEMESTER-IV

Paper-4

Subject : Algebra

Topic : Cayley table Problems

V.Hemant Kumar Chary, Lecturer in Mathematics

Dr.P.Damodar

34:32

Sem-4, Paper-4, Algebra, Theor...

4 views · 9 month...

0 likes 0 comments

Let G be a group under multiplication. $a \in G$. a^{-1} is the inverse of a . $a^{-1}a = e$ and $a a^{-1} = e$.

36:45

Sem-4, Paper-4, Algebra, Order ...

11 views · 9 mont...

1 like 0 comments

GOVERNMENT DEGREE COLLEGE NARSAPUR, MEDAK, DIST

Department of Mathematics

SEMESTER-IV

Paper-4

Subject : Algebra

Topic : Cayley table Problems

V.Hemant Kumar Chary, Lecturer in Mathematics

Dr.P.Damodar

35:43

Sem-4, Paper-4, Construction of...

10 views · 9 mont...

0 likes 0 comments

Matrix $A = \begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix}$

$a_{11} = a_{11} + a_{12} + a_{13}$

$a_{21} = a_{21} + a_{22} + a_{23}$

$a_{31} = a_{31} + a_{32} + a_{33}$

42:06

Sem-6, Paper-7, Neville's Metho...

15 views · 10 mo...

0 likes 0 comments

Zoom meetings

4G 79% 12:07

Close Participants (13)

Search

- Hemanth V... (Host, me)
- M Malleshwari
- TS T Suresh
- A Almaipet Deekshitha
- P Prasanna
- P PRASHANTHI
- R Ramesh Orre
- S srikanth

Invite Mute All ...

4G 29% 2:54

Close Participants (8)

Search

- Hemanth V... (Host, me)
- SG Shilpa goud
- B B.maneesha
- C Chintu Samala
- Deepika.S.
- E E.Sathwika
- G G.Supraja
- M mahi

Invite Mute All ...

76% 12:06

Close Participants (9)

Search

- Hemanth V... (Host, me)
- 1 1jN7sLYhJuBeLM0...
- A Almaipet Deekshitha
- B B.sushma
- P Prasanna
- P PRASHANTHI
- R8 Redmi 8
- S Sindhumudhirai

Invite Mute All ...

4G 43% 1:55

Message info

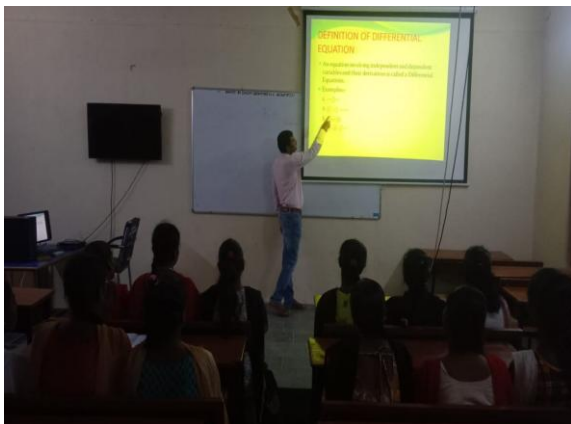
- Dinesh Just now
- Muthyalu 3yr Just now
- Prabakar Mpc 1st Yr Just now
- Renuka 3yr Just now
- Revathi Just now
- Vamshi 2yr Just now
- +91... ~Sandeep reddy Just now

Extension Guest Lectures



Co-Curricular Activities





Important Days Celebrations



EXTENSION ACTIVITIES







THANK YOU

