



Vision

To increase interest amongst the students towards mathematics and strives to solve locally relevant problem through its role for the development of rural region.

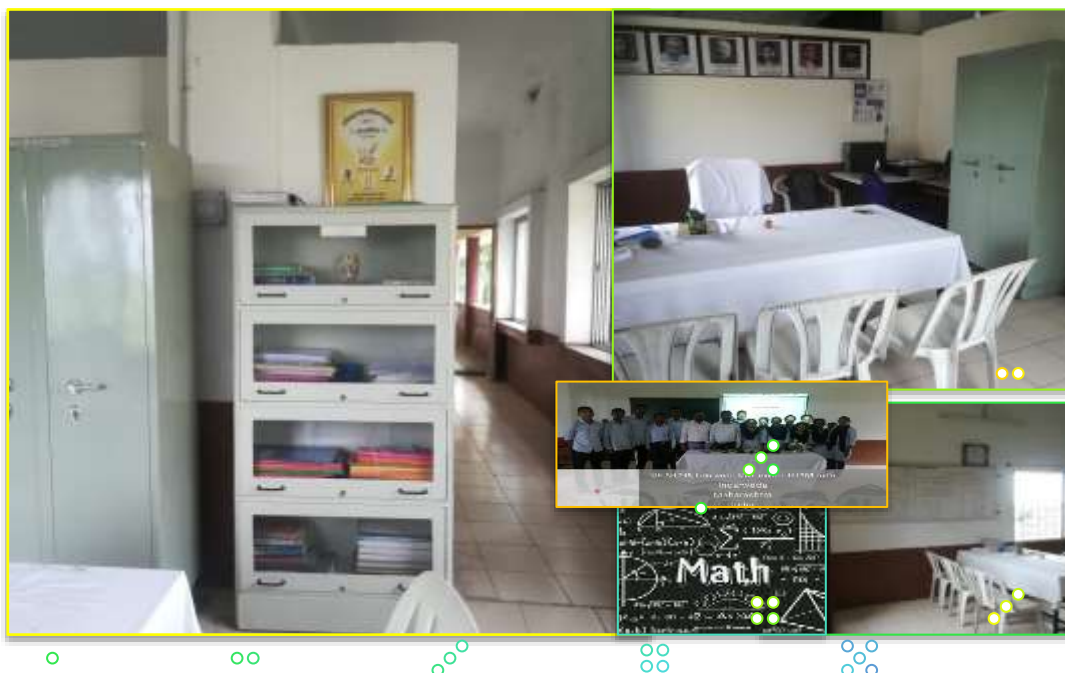
Mission

1. To develop the mathematical thinking of the students.
2. To learn mathematical software knowledge for further higher education.
3. To create an environment that supports to solve rural problems and give its usages to ground level by mathematical modelling etc.
4. To conduct seminar, group discussion, workshop etc. for the students.

About Mathematics Department

The department of Mathematics was established in the year 2008-09 and introduced as an aided course in the year 2012 along with Physics and Chemistry as a group. This is three-year (six semester) B. Sc. Course affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. Since then, the department tried for its reputation and to match with institution's vision and mission. The mathematics department was first headed by Dr. Sunil Bagde (currently in Gondwana University, Gadchiroli) during the year 2014-2016. In between, the department was carried out its academic work by CHB lectureship. From 2017, I have been handling this department up till now. This department has an annual intake of 60 students to each semester per year at undergraduate level.


Highlights of the Department:



Courses/Programmes:

Courses	Stream	Specialization	No. of Seats
UG	Bachelor of Science	Group-PCM	60

Teaching Staff:

S.N.	Name of the Faculty	Designation	Date of Joining	Specialization	Area of Research	Photo
1	Dr. P.V. Gayakwad	Assistant Professor & Head	24 th June 2017	Mathematics (ODE, PDE, SR, Mechanics)	Relativity & Cosmology	

Research Paper Publications:



<https://orcid.org/0000-0002-3878-4555>



<https://scholar.google.com/citations?user=c8OW8SIAAAAJ&hl=en>

Departmental Books published:

Title of the Book Published	Name of the author/s	Year of publication	ISBN/ISSN number	Name of the publisher
Text Book, B. Sc. Sem-I Math-I & II	NK Lamba, B Ambatkar, VK Manthena, DB Kamdi, S. Samdurkar, S. Bagde , V. Verghese	2015	No ISBN	NPH Publication
Applications of electrospun polyaniline (PANI) based composite nanofibers for sensing and detection published in Electrospun Nanofibers (Book Chapter)	N.D. Sonwane S.S. Kondawar P.V. Gayakwad S.B. Kondawar	pp. 491-517 (2022)	DOI: 10.1007/978-3-030-99958-2_18 Part of ISBN 9783030999575 Part of ISBN 9783030999582	Springer, Cham

Activities:

Session 2017-18:

1. Guest lecture by Dr. R.S. Wadbudhe, Mahatma Fule Arts and Commerce and Sitaramji Chaudhari Science College, Warud on 08th August 2017 on topic group theory for all odd semester students.
2. Student seminar activity for B.Sc. Final semester students and fourth semester students

Session 2018-19:

1. Guest lecture by Mr. Jayprakash Matlam, JM Patel Arts, Science and Commerce College, Bhandara on 25th Feb 2019 on topic vector space and preparation of JAM examination.
2. Guest lecture by Mr. Pravin Sayare, Institute of Science on 08th March 2019 on topic group automorphism for semester-VI students.

Session 2019-20:

1. **Workshop** for fifth semester students on Mathematical Skills to write in LaTeX and MS word by Dr. N.P. Gaikwad, Associate Professor, Dharampeth M.P. Deo Memorial Science College, Nagpur on 04th Oct. 2019.
2. Guest lecture by Mr. Pravin Sayare, Institute of Science on 04th Oct. 2019 on the topic series for semester-III students.
3. Guest lecture by Mr. Jayprakash Matlam, JM Patel Arts, Science and Commerce College, Bhandara on 04th Oct. 2019 on the topic group theory and homomorphism for semester-I students.

Session 2021-22:

1. Guest Lecture given by Prof. Ashish Shastrakar, Vidya Bharati College, Seloo, Dist Wardha on 04-05th January 2022 on the topic Group Homomorphism for final semester students.
2. Celebration of National Mathematics Day 2022 on birth anniversary of great mathematician Ramanujan, the guest lecture is arranged on Ramanujan and his life and given by Dr. Prashant Dhongle, Seth Kesarimal Porwal College, Kampttee, Nagpur on 25th December 2021 for all mathematics students of graduate and intermediate students.
3. Quiz competition arranged for all mathematics students of undergraduate and intermediate on 22nd December 2021.
4. Student seminars presentation of even semester B Sc students on 05-07th May 2022
5. Group Discussion of final semester students on 07th May 2022

Session 2022-23:

1. Group Discussion Activity for semester-V students held on 17th October 2022.
2. Workshop on 'Writing Mathematical Equations in MS Word and Plot a Graph' by Prof. Pravin Sayare, Institute of Science, Nagpur on 27th April 2023 for final semester II and semester-IV students.
3. Guest Lecture by Prof. Sagar Gorale, Rashtriya Hutatma Arts & Science College, Ashti, Dist Wardha for the semester-VI students on the topic 'Vector Space' on 28th April 2023.
4. Visit at Industrial Training Institute (ITI), Centre of Excellence, (Government of India), Katol for semester-II and semester-IV students on 02nd May 2023 in collaboration with Department of Physics.
5. Student Seminar Activity for semester-IV and semester-VI students on 06th May 2023 via power point and traditional presentations.

Academic Achievement of the Students:

Miss. Chetana Thombre got distinction in all semester in regular mode (Sess 2018-21)

Students' participation and Prizes in various intercollegiate competitions:

Participated in state level power point presentation and poster presentation for students organized by Department of Mathematics, Tayawade College, Koradi on 23rd Feb. 2019

ISCA 2023 Students Participation:



Departmental Gallery:

National Mathematics Day Celebration:



By Dr Prashant Dhongle, Associate Professor, S.K. Porwal College, Kamptee, Nagpur

Guest Lecture(s) & Workshop:





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2019-10-04 01:41(pno)



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ARVINDRABU DESHMUKH MAHAVIDYALAYA
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2019-10-04 09:57(am)



ARVINDRABU DESHMUKH MAHAVIDYALAYA
BHARSINGI
Indarwada
Maharashtra
India
2019-10-04 12:08(pno)



Latitude: 21.552519
Longitude: 76.463398
Accuracy: 60.2m
Time: 08-53 2019 09:54
Marker: Guest lecture



25 Feb 2019 12:35:49 pm



ARVINDRABU DESHMUKH MAHAVIDYALAYA
BHARSINGI

guest lecture in
Mathematics
SEM-III: RING THEORY

under topic
PROF. AASHISH SHASTRAKAR
Guest Speaker
Vidya bharti college, etoo, dist. wardha

Dr. Pitambar Gayakwad
Assistant Professor & Head
Department Of Mathematics

Date: 04/01/2022
Time: 10:30 am to 11:30 am

Definition: A ring R is called a commutative ring if $ab = ba$ for all $a, b \in R$.

Again if \exists an element $e \in R$ s.t., $ae = ea = a$ for all $a \in R$.

We say, R is a ring with unity. Unity is generally denoted by 1 . (R is also called unit class or multiplicative identity)

Example 1: set of real numbers, rational numbers, integers form rings w.r.t usual addition and multiplication. These are all commutative rings with unity.

Example 2: Set E of all even integers forms a commutative ring, without unity (under usual addition and multiplication)

Example 3: Let M be set of all 2×2 matrices over integers under usual addition and matrix multiplication. It is easy to see that M forms a ring w.r.t. usual addition and matrix multiplication. It is easy to see that M forms a ring with unity $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ but is not commutative.

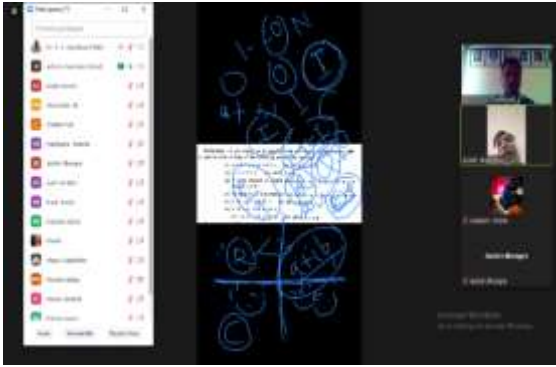
ARVINDOBABU DESHMUKH MAHAVIDYALAYA
BHARSINGI

guest lecture in
Mathematics
SEM-III: RING THEORY

PROF. AASHISH SHASTRAKAR
Guest Spesker
vijayashakti college, srinagar, chit. varadivra

Dr. Pitambar Gajalkwad
Assistant Professor & Head
Department Of Mathematics

Date: 05/01/2022
Time: 10.30 am to 11.30 am



Student Seminars



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India
2022-05-07 11:53(am)



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2022-05-07 12:16(pm)



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2022-10-17 09:27(am)



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2022-10-17 09:28(am)



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Lat 21.35265°
Long 78.463421°
06/05/23 11:23 AM GMT +05:30



Indarwada, Maharashtra, India
9F37+2C5, Indarwada, Maharashtra 441305, India
Lat 21.352648°
Long 78.463397°
06/05/23 11:29 AM GMT +05:30



ISCA 2023 Work as a Liaison Officer



Extension Activities:



Visits:



Raman Science Centre, Nagpur (Govt of India)



Govt ITI, Katol on 02nd May 2023