

**Department of Mathematics**  
**Govt. Digvijay P.G College, Rajnandgaon**  
**DEPARTMENTAL ANNUAL REPORT**

**Session 2021-22**

- **Year of Establishment-**

U.G. - 1959

P.G. – 1970

**Mathematics LAB - 2018**

- **Thrust Area** - The teachers of the department are working in the field of Fixed Point Theory, Reliability Modeling and Approximation Methods.

- **Courses Offered** - In U.G level courses offered are given below-

- Mathematics, Physics, Chemistry
  - Mathematics, Physics, Computer Science
  - Mathematics, Physics, Industrial Chemistry
  - Mathematics, Physics, Geology

Note:-With these groups the student can have option of Add-On course as certificate, diploma, advanced –diploma-**Information Technology (I.T.) and Electronic Equipment Maintenance (EEM)**

- **No. of Students ( in each course)- Session 2021-22**

B. Sc. I	-	291
B.Sc. II	-	254
B.Sc. III	-	310
M. Sc. Previous	-	60
M.Sc. Final	-	52

- **No. of sanctioned posts** - 05

<b>Professor</b>	-	01
<b>Assistant Professor</b>	-	04

### • **Name and Designation of Teachers**

- Dr. Shabnam Khan - Prof. & Head
- Dr. K.K. Dewangan - Asst. Professor
- Dr. Hemant Kumar Sao - Asst. Professor
- Prof. Kavita Sakure - Asst. Professor

## **Curricular Aspects**

### • **Curriculum Planning and implementation**

Every month, the Head of Department organizes the meeting with faculties where discussions regarding department and their implementations are done. We prepare month-wise teaching plan for which separate registers are maintained.

### • **Implementation and Innovation**

#### • **Month Wise teaching plan**

- The syllabus is divided into units. Every teacher plans the syllabus for the whole session at the beginning of the session. Teaching diary is prepared by each teacher. It is checked by Dean of Faculty and signed by the principal every month. Thus implementation of teaching curriculum is ensured.
- In July, we analyzed the results of all the B.Sc. (Mathematics Group) classes and plan for improvement of results.

#### • **For improvement of result**

- After completion of each unit, class test were taken by subject teachers of each classes. Evaluated answer script shown to students and given feedback of students.
- After completion of syllabus a Model Test were taken by covering all syllabuses.
- A Model Question bank provided as per new pattern of examination.
- For UG students, a revision and doubt classes were arranged and notes were provided to them.
- Model answers were provided to them.
- In P.G., before practical exams we took classes where we discussed viva questions.

#### • **Innovative methods used for implementation of curriculum**

- Teaching is not only done by chalk-duster method but also ICT.
- We motivated students to attend Spoken English free coaching which is organized by the English department of the college.
- Paper presentation by P.G. students is made through power point.
- For teaching and learning practices students go to nearby school and taken classes at secondary and higher secondary level students.

## • Academic Flexibility

As per UGC norms, academic flexibility is used when needed. We provide academic flexibility to choose different combination of subjects in the admission of 1st Year of U.G. level. In B.Sc. III year, there is optional choice in paper III .We have opted Numerical Analysis with Computer Programming looking for its vast application in the various field such as computer science, engineering etc and in research work related to different field.

In order to update the existing curriculum, three optional papers in B.Sc. III are introduced. These papers have wide application in day to day life.

- Discrete Mathematics
- Programming in C and Numerical Analysis
- Principles of Computer Science

In P.G. level out of the long list prescribed in U.G.C. curriculum we have preferred to opt optional paper as per their importance in NET/SET and applications science, engineering and other field.

We have one optional paper **Advanced Discrete Mathematics** in M.Sc. I and II semester which includes recent topics on algebra (Boolean / finite state machine and graph theory). These are very important tools for solving specific problems of science, engineering research.

Three optional papers in M.Sc. III and IV semester.

- **Operations Research:** - Operation Research has got wide scope. It is used in many organizations including business, industries, management, finance, production, defense etc. Thus OR has got great scope in various fields.
- **Programming in C (with ANSI feature)** theory and practical has been included in the syllabus in M.Sc. III and IV semester looking for its wide applications in Mathematical analysis.
- **Fuzzy Sets and its applications** has been opted. This paper has a great extent and is career oriented. It is useful in research purpose .

These subjects are flexible in reference to mobility. They may join any job in research centers. They can pursue M.Phil. /Ph.D. in applied Mathematics.

## • Curriculum Enrichment

- To develop I.T. and electronic skills we have introduced Add-On Course in “I.T. and EEM”, along with B.Sc. course.
- To develop communication skills we have introduced Add-On Course Spoken English and Creative writing along with B.Sc. course.
- For innovative teaching and learning ICT based teaching methods are adopted.
- **Credit Based Grade system (CBGS)** was implemented for **PG classes**.

### • Feedback System\_–

- Open House feedback system has been adopted and as per feedback we sort-out the students, parents views and problems try to overcome them.
- We have taken feedback from stakeholder and as per their requirement and demand we modify our curriculum.

### • Documentation- Curriculum (Board of Studies)

On 04.08.2021, Board of Studies meeting was held for approving the syllabi of P.G. for academic session 2021-22.

#### List of BOS Nominee and members

Dr. Padmavati	- V.C. Nominee
Dr. B.S. Thakur	- Principal Nominee
Dr. Madhu Shrivastava	- Principal Nominee
Shri Iqbal Singh Chhabada	- Nominated member from Industry
Dr. Shabnam Khan	- Head of Department
Dr. K.K. Dewangan	- Member
Dr. Hemant Kumar Sao	- Member
Prof. Kavita Sakure	- Member

The syllabus of B.Sc. I, II, III year and M.Sc. I, II, III and IV semester was approved according to Hemchand Yadav University, Durg.

### • Enrichment Programme

- Organize special lecture by subject experts and teachers.
- Organize classes for NET /SET /JRF(CSIR) Examination.
- Organize career and job oriented classes.
- Organize Madhav Mathematics Competitions.

## • Parent-Teacher Association

Every session we arrange the Parents-Teacher meeting. In this meeting we invite guardians of the students and they give feed backs. After this we analyze them and try to make improvement. The department has been arranged the Alumni meeting on 07.02.2022.



- **Teaching Learning and Evaluation**

- **Student Enrolment Profile**

The Enrolment Profile is preserved in the departmental records.

S. No.	Name of Course	Applications Received	No. of Enrolled students
1.	B. Sc. I	1174	291
2.	B. Sc. II	254	254
3.	B. Sc. III	310	310
4.	M. Sc. Previous	422	60
5.	M. Sc. Final	52	52

- **Admission**

Admission is done on Merit basis keeping in view the Reservation policy. Preference is given to the students who have achievements in sports, cultural, NCC, NSS, Scout/Guide and other fields.

- In P.G. and U.G. classes internal test is compulsory.
- For continuous evaluation at the end of each unit we take unit test.
- PPT presentation and Assignment is compulsory for P.G. Students in the topic decided by the department.

- **Catering to student's Diversity**

- Special attentions are given to the weaker students of B.Sc. by organizing remedial classes.
- Special classes are arranged for NET/SET preparations and for competitive exams.
- Special guidance is given to advanced learners.

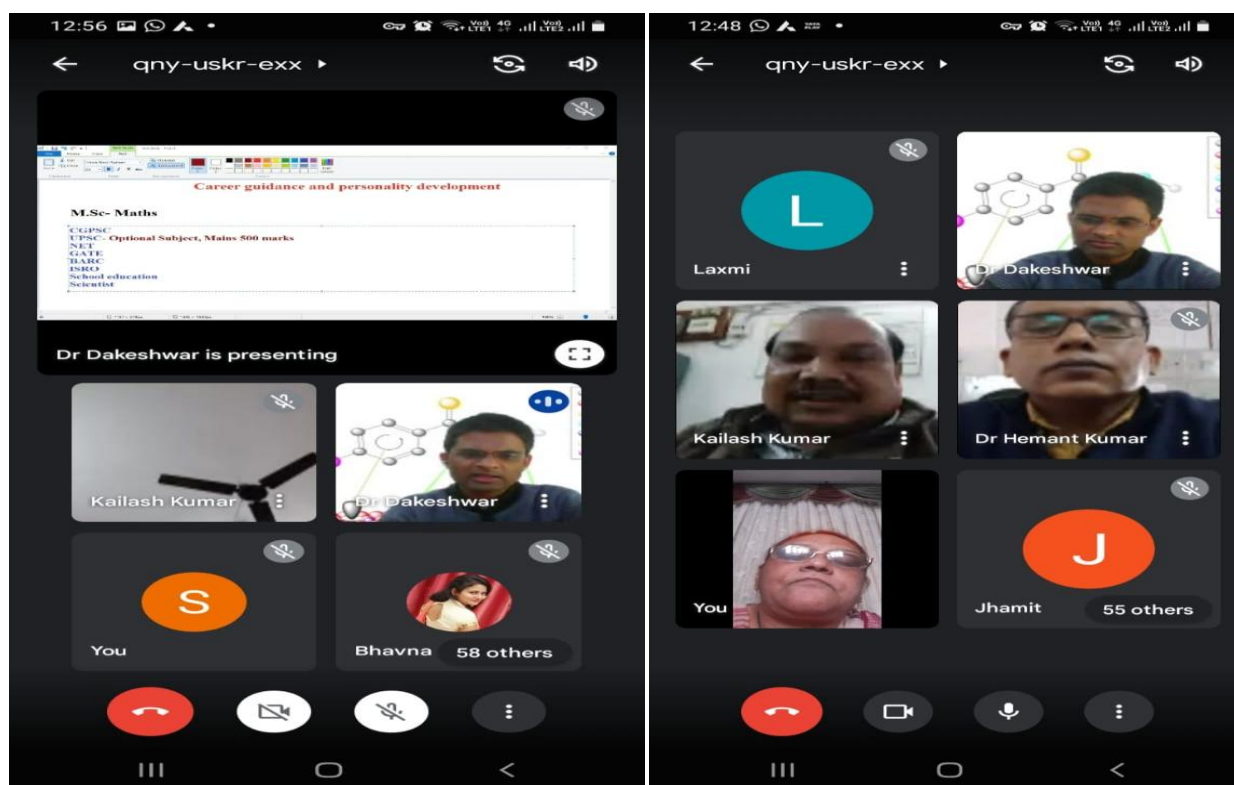
- **Teaching Learning methods**

- Traditional methods of teaching as well as multimedia teaching methods are used.
- MS PowerPoint, Graphics and Flash Slide Show Software are used for teaching and learning.
- The department has a very rich library with more than 800 text books as well as reference books.
- The department is equipped with internet facility, computers, scanner, printer, photocopier etc.
- Various journals are in the main library. P.G. students are encouraged to deliver weakly seminars through power point presentation.
- Apart from class room teaching question-answer session and tutorial classes are also held for U.G. and P.G. students. Faculty members are available beyond class hours for students.
- Guest lectures are also organized for students by subject experts to improve their knowledge in various topics.

- **Interdisciplinary Lecture**

- The department organizes the interdisciplinary lectures by subject experts to improve their knowledge in various topics.

Expert	Designation	Date	Topic
Dr. Dakeshwar Verma	Assistant Professor, Department of Chemistry, Govt. Digvijay Auto. P.G. College, RJN	01.02.2022	Career Guidance and Personality Development
Ku. Pooja Sinha	Guest Lecturer, Department of Political Science, Govt. Digvijay Auto. P.G. College, RJN	19.02.2022	Fundamental Rights of Citizens



**Dr. Dakeshwar Verma delivering online lecture on “Career Guidance and Personality Development”.**



## न्यूज गैलरी

### ‘गणित विषय में अपार संभावनाएं’

राजनांदगांव (वि.) । दिग्विजय महाविद्यालय के गणित विभाग द्वारा अंतर्विषयक व्याख्यान का आयोजन किया गया । मुख्यवक्ता डा.डाकेश्वर वर्मा थे । व्याख्यान प्राचार्य डा.केएल टांडेकर व गणित विभागाध्यक्ष डा.शबनम खान के मार्गदर्शन में आयोजित किया गया । कार्यक्रम की शुरुआत करते हुए डा. हेमंत साव ने डा. डाकेश्वर वर्मा से विद्यार्थियों का परिचय कराया । विभागाध्यक्ष डा.शबनम खान ने कहा कि विद्यार्थियों के ज्ञानार्जन तथा समुचित विकास के लिए समय-समय पर इस प्रकार के कार्यक्रमों का आयोजन किया जाता है । डा.डाकेश्वर वर्मा ने गणित के स्नातकोत्तर विद्यार्थियों को करियर गाइडेंस एंड पर्सनालिटी डेवलपमेंट पर व्याख्यान दिया । साथ ही भविष्य में गणित में संभावनाओं से विद्यार्थियों को अवगत कराया । इसके बाद डा.केके देवांगन ने डा.डाकेश्वर वर्मा के साथ रिसर्च संबन्धी पहलुओं को विद्यार्थियों से साझा किया ।

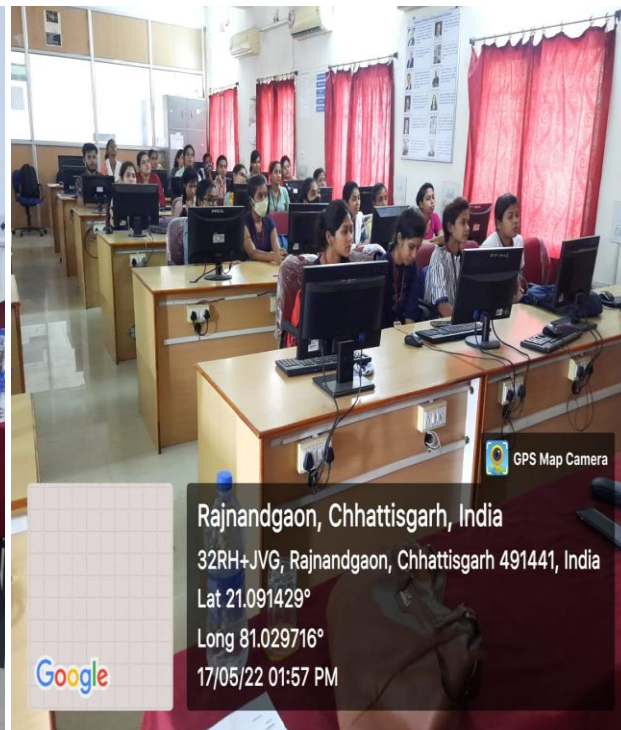


- **Guest Lectures**

Subject Expert	Designation	Date	Topic
Dr. Amit Biswas	Associate Professor, BIT Durg	19.02.2022	Programming in C
Dr. Rajesh Pandey	Principal, Govt. College, Utai	17.05.2022	Career in Mathematics



**Dr. Amit Biswas delivering his lecture on “Programming in C Language”**



**Dr. Rajesh Pandey delivering his lecture on “Career in Mathematics”**





- **Madhava Mathematics Competition** (A Mathematics competition for UG students)

09 UG students participated in this competition on 23.01.2022 conducted online by Department of Mathematics, S.P.College, Pune and Homi Bhabha Centre for Science Education, T.I.F.R., Mumbai which is funded by National Board for Higher Education.

- **Alumni Meeting**

The department has been arranged the Alumni meeting on 29.01.2022.



- **Workshop on NET/SET Preparation**

The Department has organized “Three Days Workshop on NET/SET Preparation” during 16.02.2022 to 18.02.2022 for PG Students. The following speakers are delivered his lecture in this Workshop.

Expert	Designation	Date	Topic
Dr. P. Jha	Professor, Govt. College, Baloda Bazar	16.02.2022	Techniques for Solving the NET/SET questions based on Algebra and Topology
Prof. Parmeshwar Verma	Assistant Professor, Govt. Shivnath Science College, Rajnandgaon	17.02.2022	Time management for NET/SET Examination and Strategies for solving the questions of NET/SET
Prof. Vinay Masiyare	Assistant Professor, Govt. College, Thelkadeeh	18.02.2022	Techniques for Solving the NET/SET questions based on Set Theory



## नेट-सेट के प्रश्नों को हल करने के तरीके बताए



वर्कशाप में बड़ी संख्या में विद्यार्थी शामिल हुए। • आयोजन समिति

राजनांदगांव(वि.)। दिग्विजय कालेज के गणित विभाग द्वारा नेट-सेट की तैयारी के लिए तीन दिवसीय वर्कशाप का आयोजन किया गया। वर्कशाप में विशेषज्ञों ने विद्यार्थियों को नेट, सेट परीक्षा के प्रश्नों को हल करने के तरीके बताए। डा. केके देवांगन ने कार्यक्रम के रुपरेखा से विद्यार्थियों का परिचय कराया।

विभागाध्यक्ष डा.शबनम खान ने कहा कि विद्यार्थियों के ज्ञानार्जन तथा समुचित विकास के लिए समय-समय पर इस प्रकार के कार्यक्रमों का आयोजन किया जाता है। प्राचार्य डा.केएल टांडेकर ने विभाग द्वारा इस प्रकार के आयोजन को सहायनीय प्रयास बताते कहा कि यदि कोई विद्यार्थी नेट, सेट परीक्षा की फीस देने में असमर्थ है तो महाविद्यालय के द्वारा उस

विद्यार्थी की फीस के लिए राशि प्रदान की जाएगी।

अलजेब्रा एंड टोपोलाजी को बताया: वर्कशाप के पहले दिन मुख्यबक्ता डा. पुरुषोत्तम झा ने नेट, सेट की परीक्षा की तैयारी के लिए अलजेब्रा एंड टोपोलाजी में विगत वर्षों में नेट, सेट के प्रश्नों को सोल्व करने का तरीका विद्यार्थियों को बताया। दूसरे दिन परमेश्वर वर्मा ने नेट, सेट की परीक्षा की तैयारी किस प्रकार की जाए इस संबंध में विस्तार से जानकारी दी। तीसरे दिन प्रोफेसर विनय मसियारे ने सेट थ्योरी पर आधारित प्रश्नों को हल करने तथा नेट, सेट परीक्षा में समय प्रबंधन संबंधित चर्चा विद्यार्थियों से की। मंच का संचालन डा.हेमंत साव व आभार प्रदर्शन कविता साकुरे ने किया।

### • National Mathematics Day Celebration 2021

The Department has organized “National Mathematics Day 2021” on 21.12.2021 for UG and PG students of Mathematics. The department has organized Speech and Quiz competition on this occasion in the memory of great mathematician Srinivasa Ramanujan. The judges for speech competitions are (a) Dr. P. B. Taunk, Assistant Professor, Department of Physics, Govt. Digvijay Autonomous P.G. College, Rajnandgaon (b) Dr. Y. R. Beg, Assistant Professor, Department of Chemistry, Govt. Digvijay Autonomous P.G. College, Rajnandgaon (c) Dr. Ashwani Sharma, Assistant Professor, Department of Chemistry, Govt. Digvijay Autonomous P.G. College, Rajnandgaon.

The winners of these competitions are as follows:

S. No.	Competition	Rank	Name of Winner	Class
1	Speech Competition	1	Sanjay Meshram	B.Sc. II
2	Speech Competition	2	Kumkum Jha	B.Sc. I
3	Speech Competition	3	Anupama Shrivastava	B.Sc. II
4	Speech Competition	3	Neeraj Kumar	B.Sc. I
5	Quiz Competition	1	Chandan Sahu	M.Sc. III Semester
6	Quiz Competition	1	Devika Sahu	B.Sc. I
7	Quiz Competition	1	Teekam Kumar Rawte	B.Sc. I
8	Quiz Competition	2	Babulal	B.Sc. III
9	Quiz Competition	2	Laxmikant	B.Sc. III
10	Quiz Competition	2	Shivendra Deshmukh	B.Sc. III
11	Quiz Competition	3	Nidhi Mehar	B.Sc. II
12	Quiz Competition	3	Vidhi Sahu	B.Sc. II
13	Quiz Competition	3	Yamini Sahu	B.Sc. II



# City reporter राजनांदगांव : महान गणितज्ञ रामानुजन पर देश को गर्व : डॉ. टांडेकर



By Amitesh Sonkar

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## महान गणितज्ञ रामानुजन पर देश को गर्व : डॉ. टांडेकर

### • शासकीय दिग्विजय महाविद्यालय में राष्ट्रीय गणित दिवस का आयोजन

**राजनांदगांव।** शासकीय दिग्विजय स्नातकोत्तर महाविद्यालय के गणित विभाग द्वारा डॉ. के.एल. टांडेकर के मार्गदर्शन एवं डॉ. के.के. देवांगन के निर्देशन में राष्ट्रीय गणित दिवस मनाया गया। इस उपलक्ष्य में सभी विद्यार्थियों के लिए भाषण एवं क्विज प्रतियोगिता का आयोजन किया गया जिसमें 100 विद्यार्थियों ने भाग लिया। भाषण प्रतियोगिता का विषय "Contribution of Ramanujan to Mathematics" था। इस प्रतियोगिता का संचालन डॉ. हेमंत कुमार साव ने आयोजित किया तथा उन्होंने बताया कि रामानुजन गणित में बिना किसी डिग्री एवं प्रशिक्षण के गणित के क्षेत्र में ऐसा कार्य किया कि उनके कुछ सवाल का हल अभी तक नहीं ढूँढा जा सका। रामानुजन के इस प्रतिभा से प्रभावित होकर कैम्ब्रिज विश्वविद्यालय के प्रोफेसर हार्डी ने उन्हें इंग्लैंड बुलाया और उनके साथ रिसर्च का कार्य किया। रामानुजन ने लगभग 3500 प्रमेयों का खोज किया। डॉ. के.के. देवांगन ने बताया कि रामानुजन ने गणित के क्षेत्र में अनेक महान कार्य जैसे पाई की गणना, इनफाईनाइट सिरीज आदि का खोज किया जिसका आधुनिक गणित में तथा कम्प्यूटर के क्षेत्र में उपयोग हो रहा है। उन्होंने आगे कहा कि गणित विज्ञान की रानी है। रामानुजन ने गणित को देश-विदेश में प्रसिद्ध करवाया।



कार्यक्रम को संबोधित करते हुए महाविद्यालय के प्राचार्य डॉ. के.एल. टांडेकर ने अपने उद्बोधन में बताया कि महान गणितज्ञ श्री रामानुजन पर देश को गर्व है। ऐसे महान गणितज्ञ के पदचिह्नों पर चलने का विद्यार्थियों को आव्हान किया तथा दोनों प्रतियोगिता में विजेता छात्र/छात्राओं को बधाई एवं शुभकामनाएं दी। क्विज प्रतियोगिता का संचालन प्रो. कविता साकुरे द्वारा किया गया। भाषण प्रतियोगिता में निर्णायकगण के रूप में डॉ. प्रीतिबाला टोंक, डॉ. युनूस रजा बेग और डॉ. अश्वनी कुमार शर्मा कार्यक्रम में उपस्थित थे। इस प्रतियोगिता में प्रथम स्थान पर संजय मेश्राम, द्वितीय स्थान पर कुमकुम झा एवं तृतीय स्थान पर अनुपमा श्रीवास्तव व नीरज कुमार रहे। क्विज प्रतियोगिता में 65 विद्यार्थियों ने भाग लिया जिसमें चंदन साहू, देविका साहू, टीकम कुमार रावटे के गुरूप को प्रथम स्थान, बाबूलाल, लक्ष्मीकांत, शिवेन्द्र देशमुख के गुप को द्वितीय स्थान और निधी मेहर, विधि साहू, यामिनी साहू के गुरूप को तृतीय स्थान प्राप्त हुआ। हेमचंद यादव दुर्ग विश्वविद्यालय द्वारा Quiz एवं Puzzle कार्यक्रम में महाविद्यालय के छात्र बाबूलाल और अजय कुमार कुंजाम महाविद्यालय का राष्ट्रीय गणित दिवस के अवसर पर शासकीय महाविद्यालय भिलाई में प्रतिनिधित्व कर रहे हैं प्रतिभागी के रूप में भाग ले रहे हैं। इस अवसर पर महाविद्यालय के विज्ञान संकाय के प्राध्यापक एवं गणित के विद्यार्थीगण उपस्थित थे।



## • National Webinar on “Advances in Pure and Applied Mathematics”

The Department has been organized National Webinar on “**Pure and Applied Mathematics (APAM-2021)**” during 17-18 September 2021. The aim of the webinar is to exchange the advances in Pure and Applied Mathematical Sciences among the eminent mathematicians, research scholars and students. Approximately 500 participants are registered for this webinar. The speakers of this webinar are

- (1) Dr. D.R. Sahu, Professor, Department of Mathematics, Banaras Hindu University, Varanasi, U.P., India
- (2) Dr. Vishnu Narayan Mishra, Professor, Indira Gandhi National Tribal University, Lalpur, Amarkantak, M.P., India
- (3) Dr. Abraham Verghese, Professor, IT Department University of Technology and Applied Sciences, Sultanate of Oman Muscat
- (4) Dr. Sudhir Shrivastava, Professor, Department of Mathematics, Deen Dayal Upadhyaya Gorakhpur University, U.P., India

द्वारा कोई ध्यान नहीं दिया जा रहा है। मार्ग में हमेशा धूल की गुब्बारे उड़ती रहती है। ध्यान नहीं दिया जा रहा है। जनप्रतिनिधियों के निष्क्रियता के चलते सड़क दिन प्रतिदिन दुर्दशा हो गई है ना ही ठीक ढंग से मरम्मत की जा रही ना ही नया बनाया जा रहा है। शप पदा पर नावराध नावाचन हुआ पदाधिकारियों का ज पदाधिकारियों का ज

लि देती छात्रा। दुनिया न्यूज। ल पेंडी के विभिन्न श देने वाले तथा गति के डायरेक्टर ताश्रीस्व. निर्मला ट) का निधन हो पर शाला प्रबंधन संतोष अग्रवाल, संतोष कांकरिया, ठक्कर, प्राचार्या प्रशासक विपिन णिक प्रबंधन के ी, कार्यालयीन भाग, एवं समस्त वभीनी श्रद्धांजलि को संबल प्रदान की गई।

**‘जीवन के हर क्षेत्र में गणितीय माडलिंग की उपयोगिता’**

राजनांदगांव (नईदुनिया न्यूज)। दिग्विजय स्वशासी स्नातकोत्तर महाविद्यालय के गणित विभाग में दो दिवसीय वेबिनार आयोजित किया गया। वेबिनार में देश-विदेश के गणितज्ञ विशेषज्ञ व पांच सौ से अधिक प्रतिभागी शामिल हुए। वेबिनार के आयोजन सचिव डा. हेमंत कुमार साव ने अपने स्वागत उद्बोधन में वेबिनार के उद्देश्य तथा महत्ता पर प्रकाश डाला। उन्होंने बताया कि इस वेबिनार के माध्यम से देश के विभिन्न महाविद्यालय एवं विश्वविद्यालय के प्राध्यापकों, रिसर्च स्कालर्स तथा विद्यार्थियों के बीच गणित के क्षेत्र में हो रहे विकास पर अपने विचारों का आदान-प्रदान करेंगे। वेबिनार के संरक्षक एवं प्राचार्य डा. बीएन मेथ्राम ने कहा कि

प्रस्तुत कर सकते हैं। जिससे क्राइम ट्रेसिंग में आसानी होती है। अमरकंटक जनजातीय विश्वविद्यालय के विशेषज्ञ डा. विष्णु नारायण शर्मा ने बताया कि सिमल प्रोसेसिंग में गणितीय फुरियर सीरिज का उपयोग किया जाता है। गोरखपुर विश्वविद्यालय के प्रोफेसर डा. सुधीर श्रीवास्तव ने भारतीय गणित के पितामह आर्यभट्ट के खोज तथा योगदान को विस्तार से बताया। उन्होंने बताया गणितीय गणना पूरे विश्व में भारतीय गणितज्ञों की देन है। वेबिनार के संयोजक डा. शबनम खान, सह संयोजक डा. केके देवांगन तथा आयोजन सचिव डा. हेमंत कुमार साव एवं कविता साकुरे ने सभी विषय विशेषज्ञों कार्यक्रम के सहयोग एवं सफलता के लिए धन्यवाद दिए।

दिग्विजय कालेज के गणित विभाग द्वारा वेबिनार का आयोजन किया गया। • नईदुनिया दैनिक दीनचर्या से लेकर मिसाइल बनाने तक गणित का उपयोग होता है। ओमान मस्कट से उपस्थित विशेषज्ञ डा. अब्राहम वर्गीस ने बताया कि गणितीय माडलिंग की सहायता से कोरोना संक्रमण से बचाव के लिए निर्णय लेने में सहायता मिली है। बनारस हिंदू विश्वविद्यालय के विशेषज्ञ डा. डीआर साहू ने बताया है कि गणितीय माडलिंग आइडेंटेशन का उपयोग करके किसी भी ब्रह्म चित्र को स्पष्ट रूप में

राष्ट्र के दोन का लक्ष्य पार करने के करीब एंज चके राजनांदगांव जिले में एक और विशेष प्रयास

## • Value Added Course on “Scientific Document Preparation using LATEX”

The Department has been organized Value Added Course of 30 hours on “Scientific Document Preparation Using LATEX” from 20.10.2021 to 24.11.2021. The experts for this value added course are

- (1) Dr. Dipti Thakur, Assistant Professor, SoS in Mathematics, Pt. Ravishankar Shukla University, Raipur.
- (2) Dr. Rakesh Tiwari, Assistant Professor, Department of Mathematics, Govt. V.Y.T. Autonomous P.G. College, Durg.
- (3) Dr. Samir Dashputre, Assistant Professor, Department of Mathematics, Govt. College, Arjunda, Distt. Balod, C.G.
- (4) Dr. Anindita Chakraborti, Professor, Department of Mathematics, BIT, Durg.
- (5) Dr. Rajesh Patel, Assistant Professor, Department of Mathematics, BIT, Durg.

**Rajnandgoan Epa...**

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रायपुर, गुरुवार 18 नवंबर, 2021

## ‘कौशल विकास को बढ़ाना जरूरी’

**राजनांदगांव (नईदुनिया न्यूज)।** दिग्विजय स्वशासी स्नातकोत्तर महाविद्यालय के गणित विभाग द्वारा वैल्यू ऐडेड सर्टिफिकेट कोर्स प्रशिक्षण का आयोजन किया जा रहा है। प्राचार्य डा.वीएन मेश्राम ने कहा कि सीखना ज्ञान की कुंजी है और निरंतर सीखना हमारे महाविद्यालय का उद्देश्य है। आज के प्रतिस्पर्धी युग में उभरती चुनौती से निपटने के लिए उच्च स्तर की सोच एवं ज्ञान की आवश्यकता है।

इस उद्देश्य को ध्यान में रखते हुए दिग्विजय स्वशासी स्नातकोत्तर महाविद्यालय राजनांदगांव के गणित विभाग द्वारा वैल्यू ऐडेड सर्टिफिकेट कोर्स साइंटिफिक डाक्यूमेंट प्रिपेरेशन यूसिंग लैटेक्स प्रारंभ किया गया है। डा. मेश्राम ने कहा कि बदलते वैश्विक परिवेश ने दुनिया को और प्रतिस्पर्धी बना दिया है।

इस चुनौती से निपटने के लिए विद्यार्थी के ज्ञान के स्तर एवं कौशल विकास को बढ़ाना होगा ताकि विद्यार्थी आसानी से

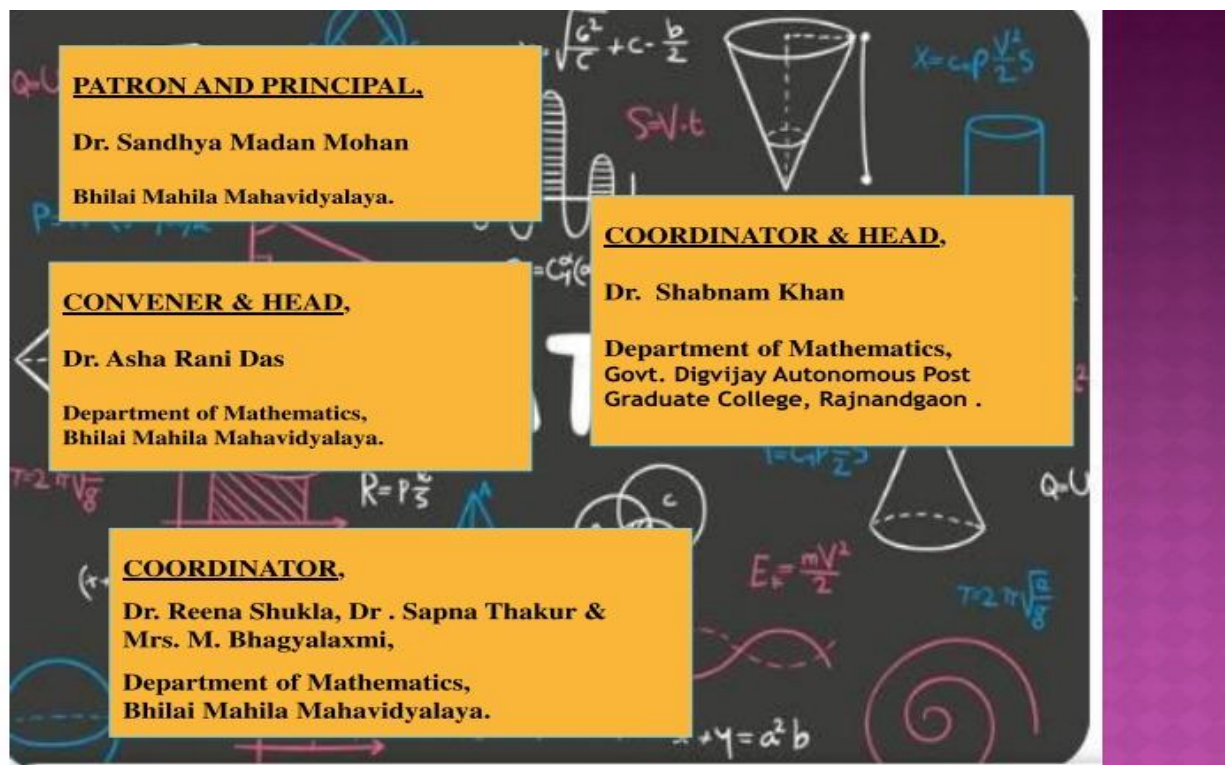
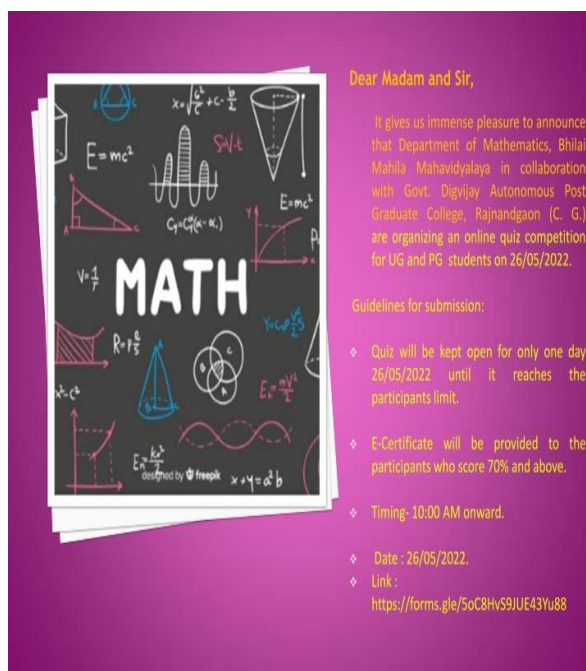
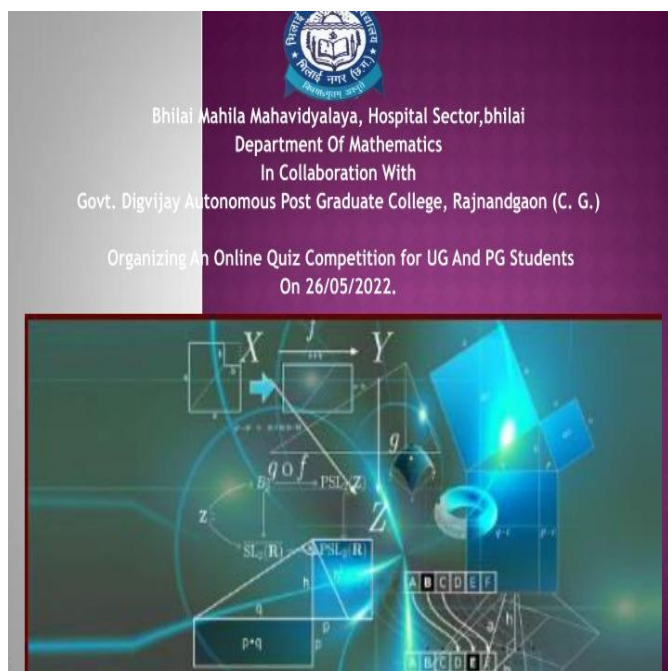
रोजगार या स्वरोजगार प्राप्त कर सके। इस पाठ्यक्रम के कोर्स कोऑर्डिनेटर डा.हेमंत कुमार साव एवं कविता साकुरे ने बताया कि पाठ्यक्रम प्रशिक्षण सत्र में 30 दिनों तक 30 घंटे के लिए सैद्धांतिक सत्र एवं प्रायोगिक अवधारणा सत्र दोनों शामिल किया गया है। पाठ्यक्रम 24 नवंबर तक चलेगा। विभिन्न स्तरों पर विद्यार्थी के मूल्यांकन एवं प्रदर्शन के आधार पर कोर्स सर्टिफिकेट प्रदान किया जाएगा।

इस पाठ्यक्रम में सफल होने वाले विद्यार्थी अकादमिक ज्ञान के साथ-साथ कैरियर कौशल विकास का ज्ञान भी आर्जित करेगा। इस कोर्स के संयोजक विभागाध्यक्ष डा.शवनम खान एवं सह संयोजक डा.केके देवांगन ने बताया कि इस पाठ्यक्रम में विद्यार्थी अपने नियमित डिग्री के साथ एक कौशल विकास का अतिरिक्त सर्टिफिकेट प्राप्त करेगा जो कि उच्च शिक्षा विभाग छत्तीसगढ़ शासन तथा यूजीसी नई दिल्ली द्वारा मान्य होगा।



• **Online Mathematical quiz competition for UG and PG students:**

The department has been organized online mathematical quiz competition for UG and PG students on 26.05.2022 in the collaboration with Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai.



## • Qualification and Achievement :

S. No.	Teacher's Name	Faculty Type	Qualification	Seminar/ Workshop / FDP/ Webinar Attended	Paper Presented	Invited Talk/ Delivered Lecture	Published Paper	Total
1	Dr. Shabnam Khan	Professor & Head	M. Sc., Ph.D.	3	1	1	--	05
2	Dr. Kailash Kumar Dewangan	Assistant Professor	M. Sc., Ph.D.	1	--	4	---	05
3	Dr. Hemant Kumar Sao	Assistant Professor	M. Sc., Ph.D.	--	--	03	01(Book) 01 (Paper)	05
4	Prof. Kavita Sakure	Assistant Professor	M. Sc., M. Phil., Ph.D. (Pursuing)	8	4	2	3	17

## • Activities and Achievement of Faculty

### • Dr. Shabnam Khan

#### • Different Committees Member

- (1) Member of Board of Studies, Hemchand Yadav University, Durg
- (2) Member of Board of Studies, Govt. N. P.G. College, Raipur
- (3) Member of Janbhagidari Samiti, Govt. Digvijay Auto. P.G. College, Rajnandgaon
- (4) Vice-Chancellor of Bharti Vishwavidyalaya, Durg has appointed as Subject Expert for Selection of Faculty Members in the Department of Mathematics on 10.03.2022.

#### • Seminar/Workshop/Conference attended

- (1) Participated in “National Workshop on Research Methodology” organized by Department of Political Science under the aegis of IQAV, Govt. V.Y.T. P.G. College, Durg .

#### • Program Organized

- (1) Convener of National Webinar “Advances in Pure and Applied Mathematics” organized by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon held on 17-18 September 2021.

- (2) Convener of Value Added Course “Scientific Document Preparation Using LATEX” organized by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon held on 20 October 2021 to 24 November 2021.
- (3) Convener of 7 Days “Faculty Development Program for Teaching and Non-teaching Staff” organized by Capacity Building Committee and Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon held on 6-13 January 2022
- (4) Convener of Workshop “NET/SET Preparation” organized by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon held on 16-18 February 2022
- **Paper Presented**
  - (1) Delivered an oral presentation entitled “Cryptography in Block-Chain in the National Seminar ” in National Seminar on “Modelling and Simulation (The Applied World)” held on 3 July 2021 organized by Govt. Shyamacharan Shukla College, Dharsiwa, Raipur
- **Faculty Development Programme**
  - (1) Participated in “International Faculty Development Program on Research and Teaching Methodology” held from 5-11 July 2021 organized by Department of Biotechnology and Department of Chemistry, Govt. V.Y.T. P.G. Auto. College, Durg.
  - (2) Participated in online 7 Days “Faculty Development Program for Different Aspect of Woman Empowerment” organized by Govt. S.G.S.P.G. College, Ganj Basoda, Distt. Vidisha, M.P. from 17-23 January 2022.

• **Dr. K.K.Dewangan**

- **Different Committees Member**
  - (1) Nodal officer of All India Survey on Higher Education
- **Seminar/Workshop/Conference attended**
  - (1) Workshop on All India Survey on Higher Education organized by Hemchand Yadav University, Durg on 28 December 2021
- **Invited Talk**
  - (1) Workshop on Career Guidance on 24.02.2022 at Govt. College, Dongargaon
  - (2) Guest Lecture on “Importance and Usefulness of Mathematics in Practical Life and Competitive Examination” on 05.02.2021 at Govt. College, Dongargarh.
  - (3) Guest Lecture on “Principles of Virtual Work and Jacobian” on 09.11.2021 at Govt. Kamladevi Rathi Girls PG College, Rajnandgaon.
- **Interdisciplinary Lecture**
  - (1) “Mathematics for Chemists” on 17.12.21 at Department of Chemistry, Govt. Digvijay Autonomous P.G. College, Rajnandgaon

• **Dr. Hemant Kumar Sao**

• **Different Committees Member**

- (1) Deputy controller of Autonomous Examination Cell, Govt. Digvijay Auto. P.G. College, Rajnandgaon

• **Program Organized**

- (1) Organizing Secretary of National Webinar “Advances in Pure and Applied Mathematics” during 17-18 September 2021 organized by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon
- (2) Course Coordinator of Value Added Course “Scientific Document Preparation Using LATEX” organized during 20 October 2021 to 24 November 2021 by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon
- (3) Committee member of Three Days Workshop on “Designing Destiny (Through Heartfulness Meditation)” during 12-14 August 2021 organized Autonomous Examination Cell, Govt. Digvijay Auto. P.G. College, Rajnandgaon
- (4) Co-ordinator of National Webinar on “Basic Mathematics and its Applications” on 4 May 2021

• **Book Published**

- (1) “Reliability Engineering” published by LAP LAMBERT Academy Publisher, Republic of Moldova, Europe.

• **Invited Talk**

- (1) Guest Lecture on “Simplex Method in LPP” on 04.10.2021 at Department of Mathematics, Govt. GSG PG College, Balod, C.G.
- (2) Guest Lecture on “Real Number System” on 28.04.2022 at Department of Mathematics, Govt. Rani Suryamukhi Devi College, Chhuria, C.G.
- (3) Special Talk on Value Added Course during 20.10.2021 to 24.11.2021 at Department of Mathematics, Govt. DMV, RJN.

• **Paper Published**

- (1) Reliability Modeling of a System with one main unit and two associate unit along with sub-unit, Communications in Mathematics and Applications, 13 (1) (2021)

• **Minor Research Project**

- (1) Completed a minor research project on “Reliability Analysis of Industrial System” sponsored by Autonomous Cell, Govt. DMV, RJN.

• **Member**

- (1) Editorial Board member of National Journal “Science Journal of Applied Mathematics and Statistics”

• **Mrs. Kavita Sakure**

• **Different Committees Member**

- (2) Assistant controller (21.06.2021 to 05.03.2022) of Autonomous Examination Cell, Govt. Digvijay Auto. P.G. College, Rajnandgaon



- (3) Member in College Committees- Feedback committee, Scholarship committee and Woman cell.

- **Seminar/Workshop/Conference/Webinar attended**

- (1) 2<sup>nd</sup> International Conference on “Advances in Physical, Mathematical and Computational Science” during 23-24 July 2021 organized by St. Aloysius’s College (Autonomous), Jabalpur, M.P., India
- (2) International Webinar on “Probability Theory and Reliability Theory (IWPRT-2021)” on 20 November 2021 organized by Shri Shankaracharya Technical Campus, Bhilai, C.G.
- (3) National Webinar on “Research Possibilities and Applications in Vedic Mathematics” on 28 September 2021 organized by Department of Mathematics, Shri Raghvendra Singh Hazari Govt. Degree College, Damoh, M.P.
- (4) National Webinar on “Recent Trends in Maths” on 31.05.2021 organized by Govt. Nehru P.G. College, Dongargarh, C.G.
- (5) National Webinar on “Mathematical Modelling and Social Choice Theory” on 27 September 2021 organized by Department of Mathematics, Shri Shankaracharya Technical Campus, Bhilai, C.G.
- (6) Talk on “Ramanujan’s Life and Work : Glimpses” on 22 December 2021 organized by Department of Mathematics, Rajeev Gandhi Proudgyiki Vishwavidyalaya, Bhopal, M.P.
- (7) Workshop on “Linear Transformation and Canonical Form” on 27 November 2021 organized by Department of Applied Mathematics, Shri Shankaracharya Technical Campus, Bhilai, C.G.
- (8) Quiz on “Indian Mathematics” on 08.06.2021 organized by TMM College of Arts and Science, Kulathur, Tamil Nadu.

- **Faculty Development Programme**

- (1) One week virtual National Faculty Development Program on “Scientific Documentation using LATEX” during 09.08.2021 to 14.08.2021 organized by Department of Engineering Mathematics and Humanities, Sagi Rama Krishna Engineering College (Autonomous), Bhimavaran, Andhra Pradesh, India
- (2) “Faculty Development Program for Teaching and Non-teaching Staff” during 6-13 January 2022 organized by Capacity Building Committee and Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon.
- (3) Five Days National Level Faculty Development Program on “Modern methods for effective teaching and learning” during 17-21 August 2021 organized by Department of Mathematics, Rathinam College of Arts and Science, Coimbatore, Tamil Nadu

- **Program Organized**

- (5) Organizing Secretary of National Webinar “Advances in Pure and Applied Mathematics” during 17-18 September 2021 organized by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon

- (6) Course Coordinator of Value Added Course “Scientific Document Preparation Using LATEX” organized during 20 October 2021 to 24 November 2021 by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon
- (7) Committee member of Three Days Workshop on “Designing Destiny (Through Heartfulness Meditation)” during 12-14 Augst 2021 organized Autonomous Examination Cell, Govt. Digvijay Auto. P.G. College, Rajnandgaon
- (8) Program Incharge of Essay Competition, National Science Day Celebration 2022.

- **Paper Presented**

- (1) “Multivalued generalized  $\alpha$ - nonexpansive mappings in hyperbolic spaces” in 27<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on “Functional and Numerical Analysis” during 26-28 October 2021 organized by SoS in Mathematics, Pt. Ravishankar Shukla University, Raipur, C.G.
- (2) “Convergence results for generalized  $(\alpha, \beta)$ -nonexpansive mappings” in Two Days International Conference on “Recent Trends in Modern Mathematics” during 23-24 September 2021 organized by Department of Mathematics, St. John’s College, Palayamkottai, Tirunelveli, Tamil Nadu
- (3) “Fixed point approximation of generalized  $(\alpha, \beta)$ -nonexpansive mappings” in National conference on “New Trends in Applied Mathematics” during 11-12 October 2021 organized by Department of Mathematics, University Institute of Engineering and Technology, Chhatrapati Shahuji Maharaj University, Kanpur, U.P.
- (4) “Fixed point approximation of generalized  $(\alpha, \beta)$ -nonexpansive mappings in hyperbolic spaces” in National Seminar on Modelling and Simulation (The applied world of Mathematics) on 03 July 2021 organized by Department of Mathematics, Govt. Pt. Shyamacharan Shukla College, Dharsiwa, Raipur, C.G.

- **Invited Talk**

- (4) National e-certificate course on “Writing research Paper in LATEX” during 12-24 July 2021 organized by Govt. V.Y.T. P.G. College, Durg
- (5) “Continuity and Differentiability of functions of one and multi variables” during 27 July 2021 organized by Govt. Nehru P.G. College, Dongargarh, Distt. Rajnandgaon

- **Member of Professional Bodies**

- (1) Indian Mathematical Society, Pune, with Membership ID L/2017/89.

- **Reviewer**

- (1) American Journal of Applied Mathematics.

- **Paper Published**

1. Fixed Point Approximation of Countably Infinite Family of Nonexpansive Mappings, South East Asian Journal of Mathematics and Mathematical, 17(1) (2021), 361-382 (**UGC Care Listed Journal**)

2. Convergence Results for Generalized Nonexpansive Mappings in hyperbolic Spaces via SP iteration Process, Journal of Nonlinear and Convex Analysis , 22(2), 2021, 839-854 (**Scopus Indexed Journal**)
3. Inertial Picard Normal S-iteration Process, Nonlinear Functional Analysis and Applications, 26 (5) 2021, 995-1009 (**Scopus Indexed Journal**)

## • Evaluation Process and Reforms

Admission is given as per government rules on merit basis in both U.G and P.G level. It includes reservation to students are mostly from rural areas belonging to low and middle income group. The medium of study is English. But at U.G. level Hindi is frequently used. The subject is equally popular for both genders. Students from SC, SC, ST and OBC also opted for this subject with great interest.

- In P.G. and U.G. classes internal test is compulsory
- For continuous evaluation at the end of each unit we take unit test. Half yearly test and after completion of syllabus there is provision of Model test.
- PPT presentation and Assignment is compulsory for P.G students in the topic decided by the department

## • Student's Performance and Learning Outcome

### Result Analysis

Session 2020-21

#### B.Sc. (Mathematics)

S. No.	Class	Passing Percentage			Total Pass %
		Paper I	Paper II	Paper III	
1	B.Sc. I	100%	100%	100%	100%
2	B.Sc. II	100%	100%	100%	100%
3	B.Sc. III	100%	100%	100%	100%

#### M.Sc. (Mathematics)

S. No.	Class	Passing Percentage					Total Pass %
		Paper I	Paper II	Paper III	Paper IV	Paper V	
1	M.Sc. I Sem.	100%	100%	100%	100%	100%	100%
2	M.Sc. II Sem.	100%	100%	100%	100%	100%	100%
3	M.Sc. III Sem.	100%	100%	100%	100%	100%	100%
4	M.Sc. IV Sem.	100%	100%	100%	100%	100%	100%

### Overall Result

S. No.	Class	U.G/P.G Total No. Students Appeared	Total Passed	Pass %
1.	B.Sc. I	266	266	100%
2.	B.Sc. II	319	319	100%
3.	B.Sc. III	234	234	100%
4.	M.Sc. I Semester	54	54	100%
5.	M.Sc. II Semester	54	54	100%
6.	M.Sc. III Semester	54	54	100%
7.	M.Sc. IV Semester	54	54	100%

On analyzing we found that in B.Sc. I students performance in paper I was not satisfactory .To improvement of result senior teachers will take special classes, Tutorial classes and provided model question papers and made answers.

### **Steps taken to improve the Students' Performance-**

- Senior teachers engage classes for B.Sc. I students and there is provision of special classes for the supplementary students.
- Tutorial and Remedial classes have been arranged for weaker students.
- Efforts were made for poor and brilliant students in which poor students were given personal counseling about study. Brilliant students were encouraged to use of English for broadening their communication skills.

## **• Research, Consultancy and Extension**

- **Promotion of Research** - The department is contributing a lot in research of different field of Mathematics especially in the Fixed Point Theory and Reliability Modeling. We also promote the students for research and extension activities and assist them to do project in mathematical

science. The department provides internet facility to all students and faculties for their research work. The faculties and student are encouraged to participate actively and present paper, talk in different workshop, seminar, conferences (colloquiums), etc.

- **Extension Activity and Institutional Social Responsibilities-** In this session we took our students to Govt. Higher Secondary School, Singhola, Rajnandgaon. The students of P.G. Level taught school students how to solve Mathematics easily through charts, short tricks, Vedic Mathematics and overcome the fear of Mathematics on 13.12.2021 and 179 students are benefitted by this program.

## गणित विषय को रुचिकर बनाने जागरूकता अभियान

### सिंघोला हाईस्कूल में कार्यक्रम का आयोजन

राजनंदगांव(दावा)। विगत दिनों शा. उच्च माध्य. विद्या. सिंघोला में गणित विषय में व्याख्यानमाला का आयोजन किया गया, जिसमें शास्त्रीय दिग्विजय पी.जी. महाविद्यालय राजनंदगांव के गणित विभाग के रूस पूर्व व अंतिम के विद्यार्थियों व गणित विषय के विभागाध्यक्ष श्रीमती शबनम खान व प्राध्यापक कैलाश देवांगन के द्वारा गणित विषय में आने वाले कठनाई के संबंध में प्रकाश डाला गया, जिसमें कक्षा नवमी, दसवीं, ग्यारहवीं, बारहवीं के छात्र-छात्राओं को गणित विषय व कैरियर गाइडेंस से सम्बन्धित गतिविधियों का मार्गदर्शन प्रदान किया गया। प्राध्यापक कैलाश देवांगन ने बताया गणित विषय में आने वाले छोटी छोटी कठनाइयों को कैसे सरल तरीके हल किया जाता है।

प्राचार्य डी. आर.देवांगन व



कार्यक्रम प्रभारी व्याख्याता जय प्रकाश साहू द्वारा गणित विषय को रुचिकर बनाने के लिए अपने विचार रखे। इस अवसर पर एमएससी अंतिम के छात्र सोनम, संगीता, लक्ष्मी देवांगन, योगेश खरे, घनश्याम सिंग पटेल, चन्दन साहू ने कक्षा 11 व 12 वीं का मार्गदर्शन किया व एमएससी पूर्व के छात्र सूर्यकांत, प्रवीण कुमार, पूर्णिमा, भावना दुबे, कोर्तन, टिकेश गोयल, काजल, अखिलेश, खेलन, यामिनी, आरती आहुजा, कुमकुम सिन्हा पायल, निरज, प्रदीप, राहुल, मृदुल, भावना, गौतमज्योती, इशु सिन्हा, यामिनी, काजल ने कक्षा 9 व 10 वीं का मार्गदर्शन

किया तथा संस्था के व्याख्याता पी.सी. कोसरिया, वीर सिंह सोनवानी, प्रदीप साहू, कैलाश चोरकर, ममता तिवारी, मंजरी शर्मा, दुबो दिवेदी, श्रद्धा झा, स्वाति साहू, शिक्षक अजय देशमुख, दुषियंत देवांगन के साथ स्कूली छात्र-छात्राओं कविता, केशरी, खुशबू, अंजली साहू, नोमीशा साहू, गरिमा, आराधना साहू, मोनू साहू, मोनिका, नयना साहू, अंजली साहू, डेविड साहू, लिलेश्वरी साहू, भारती साहू, जशवंत साहू, केशरी साहू, येमीन साहू, टेमेश्वरी साहू, ईश्वर साहू, मुकेश, पोयूष, राहुल, यशराज कसेर, योगेंद्र, संजना साहू का सहयोग रहा।

- **Research Facilities-** The Departmental Library consists of 900 books the most of which are good reference books that help students and teachers to pursue the research work. Moreover the Internet facility is in the department that gives them access to the material, which is not available in books.

- **Consultancy-** The department give their consultancy to other departments like Computer Science etc.
- **Swachchhata Abhiyan** - The students of M.Sc. (Mathematics) clean the classrooms and corridor once a week.

## • **Student Support and Progression**

### • **Student Mentoring and Support -**

- We motivate the students to visit the Placement Cell frequently to get information regarding job opportunities.
- The faculty members of the department help the students get prepared for various competitive examinations and interviews.

### • **Progression-**

- From B.Sc. III 60 % students were taken admission M.Sc. I Semester.

### • **Student's Participation and Activities**

- **MTTS Programme-** Three students Ved Prakash Nirmalkar (B.Sc. III), Khelan Sahu (M.Sc. II Semester) and Neeraj Kumar (M.Sc. II Semester) are selected for Mathematics Training and Talent Search Programme 2022 during 7-12 March 2022 organized by IIT, Bhilai and successfully completed this training programme.
- **GATE-** Ku. Sonam Sahu (M.Sc. IV Semester) qualified GATE examination with all India rank 1536.
- Rishabh Dewangan is selected as Gramin Dak Sevak.
- Three students Chandan Sahu (M.Sc. I Semester), Ku. Sonam (M.Sc. I Semester) and Ku. Sangeeta Sahu (M.Sc. I Semester) won the first, second and third prize respectively with cash prize Rs.5000/-, Rs.3000/- and Rs 2000/- respectively in National Mathematics Day 2021 organized by Department of Mathematics, Govt. Kamladevi Girls College, Rajnandgaon.



# राष्ट्रीय कार्यशाला व मैथेमेटिक्स क्विज का आयोजन

राजनांदगांव @ पत्रिका. संत. लोंगोवॉल इंस्टीट्यूट ऑफ सॉल्यूटिंस को शुभकामनाएं देते हुए इसके आयोजन का उद्देश्य भी बताया। कार्यक्रम के विशेष अतिथि गुरुकुल कांगड़ी विश्वविद्यालय हरिद्वार की प्रो. निधि हांडा ने छात्रों को प्राचीन गणित एवं रामानुजन के योगदान पर विविध जानकारी दी। कार्यक्रम के संयोजक डॉ. ओंकार लाल श्रीवास्तव ने बताया कि मैथेमेटिक्स क्वीज में राज्य के विभिन्न महाविद्यालयों के 117 छात्र-छात्राओं ने भागीदारी की एवं चंदन साहू रु. 5000 प्रथम पुरस्कार, सोनम को रु. 3000 द्वितीय पुरस्कार तथा संगीता साहू को रु. 2000 तृतीय पुरस्कार दिया गया। इसी तरह 'रामानुजन एवं गणित का विकास' शीर्षक पर आयोजित राष्ट्रीय कार्यशाला में 241 विद्यार्थी स्कूल एवं प्राध्यापक सम्पूर्ण राष्ट्र से पंजीकृत हुए, जिनमें से 159 छात्राएं एवं 20 प्राध्यापक ऑफलाइन मोड में उपस्थित थे तथा 82 लोग ऑनलाइन कार्यक्रम में उपस्थित रहे।

- Sanjay Meshram (B.Sc. II ) has been scored first position, Ku. Kumkum Jha (B.Sc. I) has been scored second position and Ku. Anupama Shrivastava (B.Sc. II) and Neeraj Kumar (B.Sc. I) have been third position in Speech Competition in National Mathematics Day 2021 organized by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon.
- Chandan Sahu (M.Sc. III Semester), Ku. Devika Sahu (B.Sc. I), Teekam Kumar Rawate (B.Sc. I) have been scored in first position, Babulal (B.Sc. III), Laxmikant (B.Sc. III), Shivendra Deshmukh (B.Sc. III) have been scored in second position and Nidhi Mehar (B.Sc. II), Vidhi Sahu (B.Sc. II), Yamini Sahu (B.Sc. II) have been scored in third position in Quiz Competition in National Mathematics Day 2021 organized by Department of Mathematics, Govt. Digvijay Auto. P.G. College, Rajnandgaon.
- Ku. Geetanjali Bhuarya (M.Sc. II Semester) has been scored first position and Ku. Namrata Sahu (M.Sc. II Semester) has been scored second position in Essay Competition in National Science Day 2022 organized by Science Club, Govt. Digvijay Auto. P.G. College, Rajnandgaon.
- Ku. Anjana Sahu (M.Sc. IV Semester) has been scored second position in Poster Competition in National Science Day 2022 organized by Science Club, Govt. Digvijay Auto. P.G. College, Rajnandgaon.
- Ku. Sonam (M.Sc. IV Semester) and Ku. Sangeeta Sahu (M.Sc. IV Semester) have been scored third position in Quiz Competition in National Science Day 2022 organized by Science Club, Govt. Digvijay Auto. P.G. College, Rajnandgaon.

## • Governance, Leadership and Management

- **Departmental Leadership** – Dr. Shabnam Khan is head of the department. Dr. K.K. Dewangan is co-ordinator of IQAC and NAAC. Dr. Hemant Kumar Sao appointed as Deputy controller of autonomous examination cell and Mrs. Kavita Sakure appointed as Assistant

controller of autonomous examination cell. Also Faculties of the department are involved in various committees like Admission, Discipline, Purchasing, Cultural activities, Examination Conduction, etc.

- **Student's Leadership** – The department nominates the meritorious students according to their marks as president, vice president, secretary, joint- secretary of mathematical council (Ganit-Parishad). To improve the leadership quality and personality development, we constitute a working committee comprising of every student. All responsibility lives with the students to organize every program of the department.
- **Strategy Development** - The department regularly monitor to the infrastructure and other activities of the department after that whenever needed we attract the attention of principal towards departmental infrastructure like as rooms, recruitment of contract teachers and maintenance of the department etc.
- **Faculty Empowerment Strategies-** The staffs of the department are always available for helping the faculties and students of other department regarding any subject issues.

- **Best Practices -**

- The MATH-LAB has been visited by student's of various schools and colleges.
- Our department with some other members of the college organizes many programs like capacity building program under the valuable guidance of Principal.
- Video lectures arranged by IIT professor through NPTEL.
- Madhava Mathematical competition conducted by the department to popularize mathematics.
- National Mathematics Day is celebrated in the Department where different competitions are organized for students like Speech Competition and Mathematical Quiz where students participated actively and won Prizes.
- National Science day was celebrated where different competitions are organized for students like Poster Competition, Debate Competition, Extempore Competition, Essay Competition and Quiz competition as per make in India theme, Quiz, Seminar competition where students participated actively and won Prizes.

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