

PGT DEPARTMENT OF MATHEMATICS, RTM NAGPUR UNIVERSITY, NAGPUR

NATIONAL MATHEMATICS DAY (NMD-2023)

POST-EVENT REPORT



RTMNU Celebrates National Mathematics Day (NMD 2023): A Tribute to Srinivasa Ramanujan

In commemoration of the birth anniversary of the legendary mathematician Srinivasa Ramanujan, the PGT Department of Mathematics at RTM Nagpur University, Nagpur organized a three-day event celebrating National Mathematics Day. Held from January 9th to 11th, 2024, the event served as a vibrant platform to ignite a passion for mathematics amongst students and faculty alike. Dr. Ganesh Kedar, Head of the Department of Mathematics, RTMNU, spearheaded the initiative as the event coordinator. This report chronicles the engaging journey of these three days, brimming with intellectual exploration, inspiring lectures, and a spirit of healthy competition. This event was made possible through the generous support and catalysis by the National Council for Science and Technology Communication (NCSTC), Department of Science and Technology, Government of India. The coordination was provided by the Rajiv Gandhi Science and Technology Commission, Government of Maharashtra.

DAY 1: Workshop on Mathematical Modelling (Jan 9th, 2024) A Spark That Ignited Curiosity!

The 9th of January 2024 witnessed the inauguration of a momentous event at RTM Nagpur University - a one-day workshop celebrating National Mathematics Day. The Department of Mathematics took center stage, igniting a passion for the subject within the hearts and minds of students and faculty alike. This day was funded by University under Students Co-curricular Activity. A total of 162 attendees participated in the day's events.

The day commenced with a spirit of reverence and tradition. The lamp lighting ceremony, graced by the esteemed presence of Dr. Subhash Chaudhary (Vice Chancellor), Dr. Rajesh Singh (Director, IIL), Dr. Diwakar Shukla (Guest Speaker), and Dr. Ganesh Kedar (Head, Department of Mathematics), set the tone for a knowledge-filled experience. The melodious strains of the university song further resonated with the spirit of camaraderie and academic pursuit.

The first day focused on the theme "Workshop on Mathematical Modelling," featuring a memorable inaugural ceremony and lectures from distinguished guests. Dr. Ganesh Kedar, with a warm welcome, presented saplings to Dr. Subhash Chaudhary, Dr. Rajesh Singh, and Dr. Diwakar Shukla, symbolizing growth and the nurturing of mathematical knowledge. Mr. Nikhil Jaipurkar reciprocated the gesture by welcoming Dr. Ganesh Kedar with a sapling, creating a beautiful cycle of appreciation.

Dr. Ganesh Kedar then delivered the opening address, not only welcoming the guests but also outlining the exciting program for the next three days. He emphasized the crucial role of soft skills in achieving success, highlighting how effectively communicating mathematical concepts is vital. He outlined the workshop's agenda and the significance of mathematical modeling in various disciplines.

Dr. Rajesh Singh, in his address, took the audience on a historical journey, recounting the inception of National Mathematics Day in 2012 under the leadership of Prime Minister Dr. Manmohan Singh. He eloquently described how mathematics forms the bedrock of all other subjects, further underlining the importance of mathematical modeling in various fields, by calling mathematics as mother of all sciences.

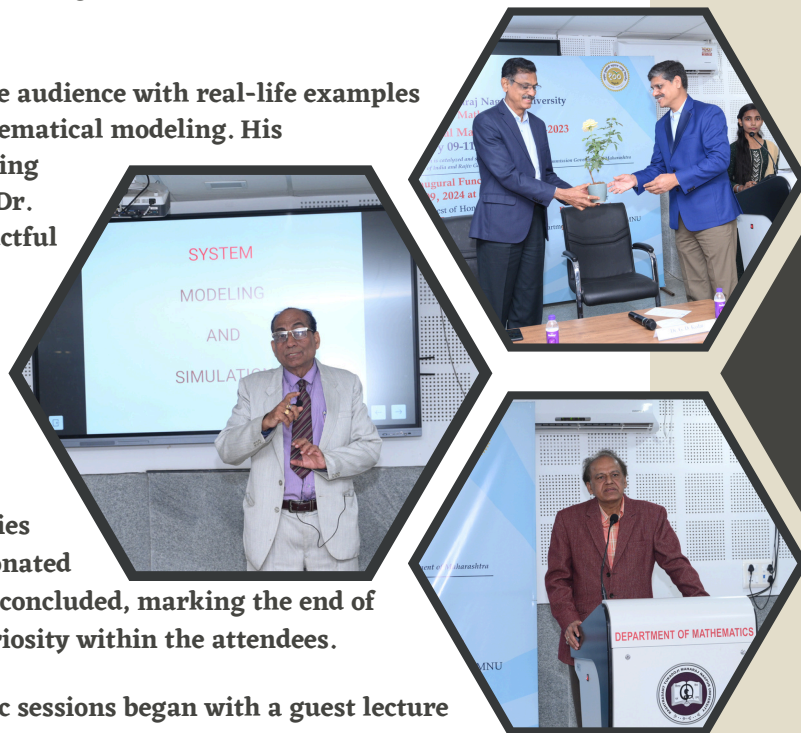
Dr. Subhash Chaudhary's speech engaged the audience with real-life examples demonstrating the value and utility of mathematical modeling. His eloquence and depth of knowledge left a lasting impression on the attendees. Guest speaker Dr. Diwakar Shukla provided a concise yet impactful speech that set the stage for the workshop's main sessions, his insightful speech, added another layer to the day's intellectual tapestry.

Finally, Divya Turkar, a bright second-year M.Sc. student, delivered a heartfelt vote of thanks, expressing gratitude to the dignitaries and organizers. As the national anthem resonated through the venue, the inaugural ceremony concluded, marking the end of the formal part but igniting the spark of curiosity within the attendees.

Workshop session: The workshop's academic sessions began with a guest lecture by Dr. Diwakar Shukla, Senior Professor at the Department of Mathematics and Statistics, Dr. H.S. Gour Vishwavidyalaya, Sagar, MP. Dr. Shukla's talk on the "Basics of System, Modeling, and Simulation" provided listeners with a solid foundation in the core concepts of mathematical modeling. He illustrated his points with practical examples, encouraging participants to explore the subject further.

The day didn't end there. Dr. G.P. Rajshekhar, Professor at the Indian Institute of Technology, Kharagpur, joined the session virtually via Google Meet. His lecture, titled "Basics of Mathematical Modeling to Real Life Problems," was a fascinating and engaging exploration of the application of mathematical models in tackling real-world challenges. Following the lectures, the audience had an opportunity to interact with the speakers and ask questions, fostering an enriching exchange of ideas and perspectives, making the session a truly interactive experience.

A refreshing tea break provided a much-needed respite before further engagements. The afternoon unfolded with an insightful online talk by Dr. Vinayak Kulkarni. His lecture, titled "Mathematical Modelling: A Multidisciplinary Approach," explored the multifaceted applications of mathematical modeling across various disciplines. And the valedictory ceremony served as a culmination of the day's learnings and a prelude to the exciting workshops that awaited in the coming days. Day 1 of the National Mathematics Day celebration at RTMNU was a resounding success.



DAY 2: Intercollegiate Quiz Contest and Seminar Competition A Day of Knowledge and Competition

The second day of the celebration of National Mathematics Day at RTMNU, on January 10th, was marked by engaging and thought provoking events that showcased the academic prowess of the attendees. The day featured an intercollegiate quiz contest and seminar competition, with a total of 92 members in attendance.



Students and attendees arrived with great enthusiasm, ready to participate and observe the day's activities. The atmosphere buzzed with an electrifying spirit of competition and a thirst for knowledge. The day commenced with a warm welcome extended to the esteemed guests and judges for the seminar competition, Dr. Jitesh Tripathi and Dr. Navneet Kumar Lamba. Eight bright students, both from the Department of Mathematics and other colleges, stepped forward to showcase their research and knowledge in the seminar competition.

The seminar presentations were a captivating display of intellectual prowess. The topics explored a fascinating array of applications of mathematics, ranging from Artificial Intelligence and Machine Learning to Physics, Bioanalysis, Brain Functioning, and Drone Study. Each participant delivered their presentation with remarkable zeal, captivating the audience with their unique insights.

The participants demonstrated their knowledge and expertise with great confidence and enthusiasm. Each presentation was unique and provided a fresh perspective on the diverse ways mathematics intersects with other disciplines. The audience was engaged throughout the competition, appreciating the depth and creativity displayed by the participants. Following the presentations, Dr. Jitesh Tripathi and Dr. Navneet Lamba, the esteemed judges, addressed the participants. They commended the students on their exceptional presentations, highlighting the originality and depth of the chosen topics. A well-deserved lunch

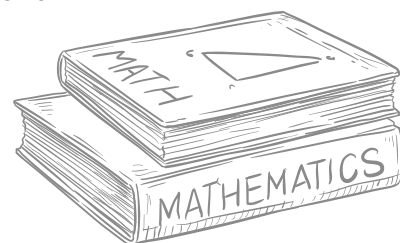


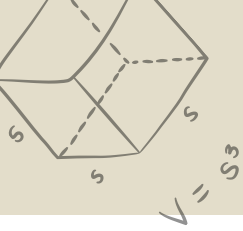
break provided a welcome respite before the much-anticipated Quiz Competition. After the break, attendees reconvened for the intercollegiate quiz contest, one of the most anticipated events of the day.



Nine teams from the parent department and other colleges registered for the competition, demonstrating a keen interest in testing their mathematical knowledge. The quiz contest was hosted by Mr. Nikhil Jaipurkar, who expertly guided the participants through the competition. Judges for quiz competition were Dr. G.D. Kedar, Ms. Vishakha Gujarkar and Mr. Praveen Sayare. The event began with an elimination round, followed by the final rounds. The format ensured a truly interactive experience, as the audience was also given a chance to flex their mathematical muscles and answer questions. The quiz contest was both educational and entertaining, as participants and audience members alike were challenged to think critically and apply their knowledge in a competitive setting. The day unfolded as a testament to the power

of mathematics to ignite a spirit of healthy competition and foster intellectual growth. The participants left the venue not only with a deeper understanding of the subject but also with memories of a truly stimulating and engaging day.





Day 3: Popular Mathematical Lectures Culmination and Celebration

The 11th of January marked the culmination of the enthralling National Mathematics Day celebrations at RTMNU. The day commenced with a much-anticipated prize distribution ceremony, where participants from both the Quiz Competition and Seminar Competition eagerly awaited recognition for their exceptional efforts. A total of 138 members attended.

The day began with the prize distribution ceremony for the quiz and seminar competitions, as participants eagerly awaited the announcement of winners. The event was graced by the presence of notable guests: Dr. Prashant Maheshwari (Dean, Faculty of Science and Technology), Dr. K.C. Deshmukh (Ex-Professor, Department of Mathematics, RTM Nagpur University, Nagpur), and Dr. Y.M. Borse (Department of Mathematics, Savitribai Phule Pune University, Pune). A spirit of gratitude filled the air as Dr. Kedar presented each guest with a sapling, symbolizing growth and the nurturing of mathematical knowledge.



Dr. Kedar then took center stage, providing a comprehensive recap of the past two days' events. This was followed by an address from Dr. K.C. Deshmukh, whose heartfelt words resonated with the audience. He shared a treasure trove of memories from his time with the department, weaving a nostalgic tapestry that touched everyone's hearts. Dr. Prashant Maheshwari stepped up to the podium next. He extended warm wishes to all attendees and congratulated the department for organizing this successful three-day workshop in honor of National Mathematics Day. He also offered valuable advice to the students, highlighting the immense benefits of pursuing online courses offered by platforms like NPTEL.

With heightened anticipation, the prize distribution ceremony commenced. The seminar competition winners were announced, with the following students securing the top three positions:

First Place: Namrata Tripathi (PGT Department of Mathematics, RTMNU)

Second Place: Muhammad Sheikh (PGT Department of Computer Science, RTMNU)

Third Place: Shruti Ugemuge (PGT Department of Mathematics, RTMNU)

The excitement continued as the results of the Quiz Competition were revealed.

First Place: Shri Mathuradas Mohota Science College, Nagpur (Komal Tiwari, Aditi Dhande, Pranali B.).

Second Place: Institute of Science, Nagpur (Tanvi Mahajan, Sejal Chakole, Nikita Gondhule).

Third Place: PGT Department of Mathematics, RTMNU (Rutuja Chandrikapure, Vaishnavi Bokade, Jay Chirekar).

Popular Talks: Following the prize distribution, Dr. K.C. Deshmukh delivered a talk on the topic "Importance of Mathematics in Daily Life." He touched upon several current research works, emphasizing the significance of mathematics in various aspects of everyday life. His talk enlightened the attendees and sparked discussions on the practical applications of mathematics.

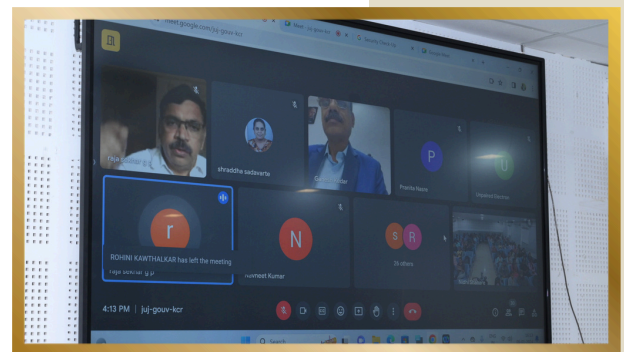
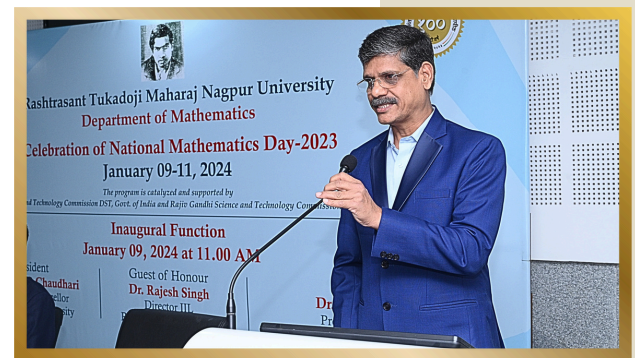
Dr. Y.M. Borse (Department of Mathematics, Savitribai Phule Pune University, Pune) then took the stage, transporting the audience on a fascinating journey through time. His lecture, titled "History of Ancient Indian Mathematics," was a treasure trove of knowledge.



Dr. Borse expertly weaved verses from ancient Vedas, the Gita, and Puranas, showcasing how these timeless scriptures are imbued with mathematical principles. His engaging and enriching talk served as a powerful reminder of India's rich mathematical heritage.

A refreshing lunch break provided a much-needed respite before the final session.

With a closing address by Dr. Ganesh Kedar, the three-day event culminated on a resounding note of success. The workshops and lectures served as a catalyst for igniting a passion for mathematics amongst the participants. The National Mathematics Day celebrations at RTMNU left a lasting impression, fostering a deeper appreciation for the elegance and power of this remarkable subject.



Unwrapping the News: Exploring National Mathematics Day Through Newspaper Articles Highlights and Insights!

देशोन्नती

विद्यापीठात गणित दिवस कार्यक्रम आजपासून

नागपूर ■ राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठात पदव्युत्तर शैक्षणिक गणित विभागाच्या वतीने गणित दिवसानिमित्त विविध कार्यक्रमांचे आयोजन करण्यात आले आहे. तीन दिवस चालणाऱ्या कार्यक्रमाचे उद्घाटन मंगळवार, दि. ९ जानेवारी रोजी सकाळी ११ वाजता गणित विभागातील श्रीनिवास रामानुजन सभागृहात होणार आहे.

उद्घाटनीय कार्यक्रमाच्या अध्यक्षस्थानी कुलगुरू डॉ. सुभाष चौधरी राहणार असून प्रमुख अतिथी म्हणून नवोपक्रम, नवसंशोधन व साहचर्य मंडळ संचालक डॉ. राजेश सिंह, समन्वयक डॉ. गणेश केदार यांची उपस्थिती राहणार आहे. या निमित्ताने गणितीय मॉडेलिंग, आंतरमहाविद्यालयीन प्रश्नमंजूषा स्पर्धा, सेमिनार स्पर्धा व चर्चेतील विषयावर चर्चासत्र आयोजित केले जाणार आहे. मंगळवार ९ जानेवारी रोजी दुपारी १२ वाजता मुंबई विद्यापीठातील डॉ. विनायक कुलकर्णी यांचे 'मॅथमॅटिकल मॉडेलिंग : ए मल्टी डिसिप्लिनरी अप्रोच' या विषयावर, दुपारी १२.४५ वाजता डीएचएसजी विद्यापीठ सागर मध्य प्रदेश येथील डॉ. दिवाकर शुक्ला यांचे 'बेसिक्स ऑफ सिस्टिम्स, मॉडेलिंग अँड सिमुलेशन' या विषयावर तर दुपारी २.३० वाजता आयआयटी खरगपूर येथील डॉ. जी. पी. राजशेखर यांचे 'बेसिक्स ऑफ मॅथमॅटिकल मॉडेलिंग टू रियल लाइफ प्रॉब्लेम्स' या विषयावर व्याख्यान होणार आहे. बुधवार, दिनांक १० जानेवारी रोजी प्रश्न मंजूषा स्पर्धा आणि सेमिनार स्पर्धा घेतली जाणार आहे. गुरुवार ११ जानेवारी रोजी स्पर्धेतील विजेत्यांना पुरस्कार वितरण केले जाणार आहे. त्यानंतर डॉ. टी. एम. करडे यांचे 'महान भारतीय गणितज्ञ' या विषयावर, सावित्रीबाई फुले पुणे विद्यापीठातील डॉ. वाय. एम. बोरसे यांचे 'प्राचीन भारतीय गणिताचा इतिहास' तर डॉ. के.सी. देशमुख यांचे 'दैनंदिन जीवनात गणिताचे महत्त्व' या विषयावर व्याख्यान होणार आहे. कार्यक्रमाला उपस्थित राहण्याचे आवाहन कुलसचिव डॉ. राजू हिवसे व गणित विभागप्रमुख डॉ. गणेश केदार यांनी केले आहे.

Deshonnati Edition
Jan 9, 2024 Page No. 1
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विद्यापीठात गणित दिवस कार्यक्रम आजपासून

नागपूर, ता. ८ : राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठात पदव्युत्तर शैक्षणिक गणित विभागाच्या वतीने गणित दिवसानिमित्त विविध कार्यक्रमांचे आयोजन करण्यात आले आहे. तीन दिवस चालणाऱ्या कार्यक्रमाचे उद्घाटन उद्या, मंगळवारी सकाळी ११ वाजता गणित विभागातील श्रीनिवास रामानुजन सभागृहात होणार आहे. उद्घाटन कार्यक्रमाच्या अध्यक्षस्थानी कुलगुरू डॉ. सुभाष चौधरी राहणार असून प्रमुख अतिथी म्हणून डॉ. राजेश सिंह, डॉ. गणेश केदार यांची उपस्थिती राहणार आहे. दुपारी १२ वाजता मुंबई विद्यापीठातील

डॉ. विनायक कुलकर्णी यांचे 'मॅथमॅटिकल मॉडेलिंग : ए मल्टी डिसिप्लिनरी अप्रोच' या विषयावर, दुपारी १२.४५ वाजता डीएचएसजी विद्यापीठ सागर (मध्यप्रदेश) येथील डॉ. दिवाकर शुक्ला यांचे 'बेसिक्स ऑफ सिस्टिम्स, मॉडेलिंग अँड सिमुलेशन' या विषयावर, तर दुपारी २.३० वाजता आयआयटी खरगपूर येथील डॉ. जी. पी. राजशेखर यांचे 'बेसिक्स ऑफ मॅथमॅटिकल मॉडेलिंग टू रियल लाइफ प्रॉब्लेम्स' या विषयावर व्याख्यान होणार आहे. बुधवार (ता. १०) प्रश्नमंजूषा स्पर्धा आणि सेमिनार स्पर्धा घेतली जाणार आहे.

पुण्य नगरी

City Pulse

विद्यापीठात गणित दिवस कार्यक्रम आजपासून विविध विषयांवर व्याख्यान

नागपूर : राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठात पदव्युत्तर शैक्षणिक गणित विभागाच्या वतीने गणित दिवसानिमित्त विविध कार्यक्रमांचे आयोजन करण्यात आले आहे. तीन दिवस चालणाऱ्या कार्यक्रमाचे उद्घाटन मंगळवार, ९ जानेवारी रोजी सकाळी ११ वाजता गणित विभागातील श्रीनिवास रामानुजन सभागृहात होणार आहे. उद्घाटनीय कार्यक्रमाच्या अध्यक्षस्थानी कुलगुरू डॉ. सुभाष चौधरी तर प्रमुख अतिथी म्हणून डॉ. राजेश सिंह, डॉ. गणेश केदार उपस्थित राहतील. या निमित्त गणितीय मॉडेलिंग आंतर महाविद्यालयीन प्रश्नमंजूषा स्पर्धा, सेमिनार व चर्चेतील विषयांवर चर्चासत्र आयोजित केल्या जाणार आहे. मंगळवार, ९ जानेवारी रोजी दुपारी १२ वाजता मुंबई विद्यापीठातील डॉ. विनायक कुलकर्णी यांचे 'मॅथमॅटिकल मॉडेलिंग : ए मल्टी डिसिप्लिनरी अप्रोच' या विषयावर, दुपारी १२.४५ वाजता डीएचएसजी विद्यापीठ सागर मध्यप्रदेश येथील डॉ. दिवाकर शुक्ला यांचे 'बेसिक्स ऑफ सिस्टिम्स, मॉडेलिंग अँड सिमुलेशन' या विषयावर तर दुपारी २.३० वाजता आयआयटी खरगपूर येथील डॉ. जी. पी. राजशेखर यांचे 'बेसिक्स ऑफ मॅथमॅटिकल मॉडेलिंग टू रियल लाइफ प्रॉब्लेम्स' या विषयावर व्याख्यान होणार आहे. बुधवार, १० जानेवारी रोजी प्रश्नमंजूषा स्पर्धा आणि सेमिनार स्पर्धा घेतली जाणार आहे. गुरुवारी ११ जानेवारी रोजी स्पर्धेतील विजेत्यांना पुरस्कार वितरण केले जाणार आहे. त्यानंतर डॉ. टी. एम. करडे यांचे 'महान भारतीय गणितज्ञ' या विषयावर, सावित्रीबाई फुले पुणे विद्यापीठातील डॉ. वाय. एम. बोरसे यांचे 'प्राचीन भारतीय गणिताचा इतिहास' तर डॉ. के. सी. देशमुख यांचे 'दैनंदिन जीवनात गणिताचे महत्त्व' या विषयावर व्याख्यान होणार आहे. कार्यक्रमाला उपस्थित राहण्याचे आवाहन कुलसचिव डॉ. राजू हिवसे व गणित विभागप्रमुख डॉ. गणेश केदार यांनी केले आहे.

Smart Nagpur Edition
Jan 9, 2024 Page No. 02
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प्रतियोगिताएं

भारत संवाददाता | नागपूर

राष्ट्रसंत तुकडोजी महाराज नागपूर विश्वविद्यालय के स्नातकोत्तर शैक्षणिक गणित विभाग की ओर से गणित दिवस के अवसर पर विभिन्न कार्यक्रमों का आयोजन किया गया है। इस तीन दिवसीय कार्यक्रम का उद्घाटन ९ जनवरी को सुबह ११ बजे गणित विभाग के श्रीनिवास रामानुजन सभागृह में होगा। कार्यक्रम की अध्यक्षता कुलगुरु डॉ. सुभाष चौधरी करेंगे। मुख्य अतिथि इन्वेस्टमेंट, रिसर्च एंड पार्टनरशिप बोर्ड के निदेशक डॉ. राजेश सिंह और समन्वयक डॉ. गणेश केदार उपस्थित रहेंगे।

इनका होगा व्याख्यान

इस अवसर पर गणितीय मॉडेलिंग, आंतर महाविद्यालय प्रश्नोत्तरी प्रतियोगिता, सेमिनार प्रतियोगिता एवं चर्चा सत्र का आयोजन किया जाएगा। मंगलवार को दोपहर १२ बजे मुंबई विश्वविद्यालय से डॉ. विनायक कुलकर्णी 'मैथमेटिकल मॉडेलिंग एक मल्टी डिसिप्लिनरी अप्रोच' पर दोपहर १२.४५

बजे, डीएचएसजी विश्वविद्यालय खरग मध्य प्रदेश के डॉ. दिवाकर शुक्ला 'बेसिक्स ऑफ सिस्टिम्स, मॉडेलिंग एंड सिमुलेशन' विषय पर दोपहर २.३० बजे और आईआईटी खडगपुर से डॉ. जी. पी. राजशेखर 'वस्तुस्थिति जीवन की समस्याओं के लिए गणितीय मॉडेलिंग की मूल बातें' विषय पर व्याख्यान देंगे।

किए जाएंगे पुरस्कृत

बुधवार १० जनवरी को प्रश्न प्रतियोगिता एवं सेमिनार प्रतियोगिता आयोजित की जाएगी। प्रतियोगिता के विजेताओं को गुरुवार ११ जनवरी को पुरस्कार वितरित किए जाएंगे। उसके बाद डॉ. टी. एम. करडे का 'महान भारतीय गणितज्ञ' विषय पर व्याख्यान होगा। कुलसचिव डॉ. राजू हिवसे और गणित विभाग प्रमुख डॉ. गणेश केदार ने कार्यक्रम में बड़ी संख्या में शामिल होने अपील की है।