

Rashtrasant Tukadoji Maharaj Nagpur University

Department of Mathematics

Report of Celebration of National Mathematics Day-2021

In the eve of Birth Anniversary of Shrinivasa Ramanujan, Department of Mathematics RTMNU celebrated the National Mathematics Day 2021. Under this celebration, programme department of Mathematics organized a workshop on MATLAB software, quiz contest and inter collegiate seminar competitions and two popular talks during December 20-22, 2021.

Day 1: December 20, 2021

A Workshop on MATLAB Software was organised for PG Students. Ex-Mayor NMC, Dr. Kalpana Pande inaugurated the Workshop while Dr. Rajesh Singh, Director, IIL, was Guest-of-Honour.



Dr. Rajesh Singh addressing the gathering



Dr. Kalpana Pande presided over the inaugural function

On this occasion, Dr. Kalpana Pande shared some memories of the life of Srinivasa Ramanujan and told us that we must cherish the contributions of Indian Mathematicians to the world. She especially focused on the Decimal System given by Ancient Sculpture Vedas. In this Workshop, Prof Satyajit Upkar and Dr Alok Jha of Shri Ramdeobaba College of Engineering and Management, Nagpur and Dr.

Akshay Pachpor, Astral Informatics Pvt. Ltd, Nagpur guided the students and also gave hands-on training to the participants in the Computer Lab of the Department.



Dr. Satyajit Upkar

- Introduction to MATLAB: Basic commands and elementary math functions used in MATLAB.
- File handling in MATLAB: Creation of folder and M-file, User defined function using M-files, importing data files.
- Programming in MATLAB: Language specific features, Programs for Statistical Analysis using Central Tendency, Dispersions, Correlation and Regression.
- Graphical Representation: Examples based on various types of Data collection, Presentations and Graphs.
- Random Variables & Mathematical Expectations: Examples based on Discrete & Continuous types, Mean, Variances and Moments using expectations.
- Theoretical Distribution: Example based on Discrete and Continuous Distributions.



Dr. Akshay Pachpor

The following points were covered in his lecture.

- Introduction to Simulink
 - Introduction to simulink libraries: sources libraries, sink libraries, logic libraries, maths operation libraries, port and subsystem libraries
 - Building a mathematical model with examples
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Dr. Alok Jha

Abstract: MATLAB is a high-performance language for technical computing. It integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. Typical uses include:

- Math and computation
- Algorithm development
- Modelling, simulation, and prototyping
- Data analysis, exploration, and visualization
- Scientific and engineering graphics

This session was helped the students to understand the potential of MATLAB in the field of Mathematics.

Day 2: December 21, 2021

On 21st December, Hon. Pro-Vice-Chancellor of Nagpur University, Dr Sanjay Dudhe inaugurated the Quiz Contest and Seminar Competition.



Dr. Sanjay Dudhe guiding the students

On this occasion. Dr. Dudhe explain that how the competitions are important to shape up once life and he advised the students to do the work with cent-percent which may allotted to you

due to which you can achieve the great success in life. On this occasion Dr Raju Hiwase, Registrar, RTMNU was present as Guest-of-Honour.



Dr. Raju Hiwase addressing the participants

The following teams participated in quiz contests held at the department.

Name of the College	Team Members
Kamla Nehru Mahavidyalaya, Nagpur	Ankita V Wakde Yogita P Jangale Aarti S Zalke
Dharampeth MP Deo Science College, Nagpur	Shubham Tiwari Abhishek Shahakar Aditya Gallewale
Shri Shivaji Science College, Nagpur	Mrunali Thawkar Mayur Barde Pooja Balapure
DRB Sindhu Mahavidyalaya, Nagpur	Asha Maladhari Asra Sheikh Aafiya Tasneem
St. Francis de Sales College, Nagpur	Arnold Francis Rohit Rahangdale Rahul Karanjekar
Hislop College, Nagpur	Muskan Singh Prachi Bedare Ashutosh Shende
Shri MM College of Science, Nagpur	Akash Singh Harsha Neware Sefali Janbandhu
Institute of Science, Nagpur	Kajal A Parate Rahul H Bagde Puja Bhattalwar
VMV College, Nagpur	Madhuri Alone Muskan Malvi Sukeshni Bagde
PGTD Mathematics, RTMNU, TEAM-A	Prajwal Walde Kunal Ingole Devendra Sharma
PGTD Mathematics, RTMNU, TEAM-B	Manda Hatwar Firdosh Sheikh Dhiraj Yadav
PGTD Mathematics, RTMNU, TEAM-C	Ajay Nagpurkar Shifa Anjum Aditya Dhande

All PG Colleges have participated in the Competitions. The colleges sent the teams by the process of proper selection at their places to participate in the competition. In the Quiz Contest, the teams of the Department of Mathematics, RTMNU secured First (Team A) and Second Place (Team B), while the Third Place was secured by Shri Shivaji Science College, Congress Nagar, Nagpur.



The first prize winners facing a question during the Quiz contest

In the Seminar Competition, after the elimination round the following students were selected for final competition.

Participant	College
Nupur Mishra	PGTD, Maths, RTMNU
Aditya Dhande	PGTD, Maths, RTMNU
Kunal Ingole	PGTD, Maths, RTMNU
Devendra Sharma	PGTD, Maths, RTMNU
Pallavi Bagde	PGTD, Maths, RTMNU
Jagruiti Ingole	PGTD, Maths, RTMNU
Shirley Gregory	PGTD, Maths, RTMNU
Shubhangi Kale	Shri MM College of Sci
Arnold Francis	SFS College, Nagpur
Bhavika Talreja	Sindhu Mahavidyalaya
Akash Singh	Shri MM College of Sci
Krushna Rahangdale	Shri Shivaji Sci College
Shikha Bissa	VMV College, Nagpur

Ms Pallavi Bagde student of the Department of Mathematics, RTMNU won First Prize while Second Prize was won by Mr Arnold Francis from SFS College. The Third Prize was won by Ms Shirley Gregory from the Department of Mathematics, RTMNU.



Ms Pallavi Bagde

Day 3: December 22, 2021

On 22nd December the Birth Anniversary of Shrinivasa Ramanujan was observed. On that day honourable vice-chancellor of RTMNU Dr. Shubhash Chaudhari presided over the function and Dean, Faculty of science and technology Dr. Prashant Maheshwari was guest of honour.



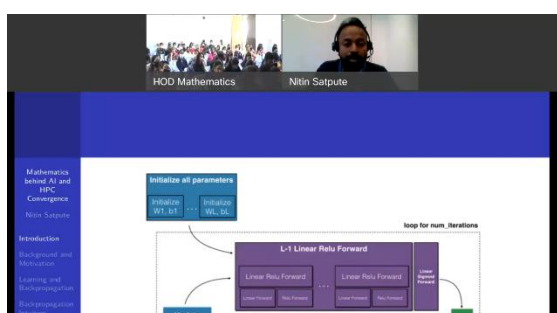
Dr. Prashant Maheshwari addressing the gathering

On this occasion, Dr. Maheshwari emphasised that interdisciplinary studies are the need of time. He told that mathematics is a key subject in the studies of engineering sciences. He also appreciated the Department of Mathematics for the inclusion of the topics related to mathematical applications in modern computing systems.

In his presidential address Hon. Vice-Chancellor told that Mathematics plays a vital role in the research era of engineering. Also, he advised students to adopt a positive approach towards modern interdisciplinary subjects. He also inspired students to study add-on courses apart from their regular curriculum. On this day two popular talks were organised.



Hon. Vice Chancellor Dr. Subhash Chaudhari delivered the presidential address



Dr Nitin Satpute of Technology Innovation Institute, Abu Dhabi, UAE was connected online from Abu Dhabi and he talked about Mathematics behind Artificial Intelligence and HPC Convergence.



In the afternoon session, Dr G.P. Singh, Professor, Department of Mathematics, VNIT, Nagpur, delivered a talk on the importance of Mathematics in the Industries.

The Co-ordinator of the three Day Celebration of National Mathematics Day, Dr Ganesh Kedar, Professor and Head, Department of Mathematics, RTMNU proposed a Vote of thanks to all dignitaries who spare their time for this Celebration. Also he promised to organise such kinds of events in future. He also

mentioned the Gratefulness to the **National Council for Science and Technology Communication (NCSTC)**, **Department of Science and Technology, Govt. of India** and **Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra** to provide financial assistance to three days Celebration of NMD 2021. Total **162** participants attended the event in **offline mode** while **132** students from various PG colleges joined the events **online**.

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RTMNU's deptt celebrates National Mathematics Day

■ Staff Reporter

DEPARTMENT of Mathematics, Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) celebrated the National Mathematics Day to mark the birth anniversary of Srinivasa Ramanujan recently.

A workshop on MATLAB software, a inter-collegiate quiz contest and inter-collegiate seminar competition were also held to mark the event. Dr Subhash Chaudhari, Vice Chancellor, RTMNU presided over the programme. Dr Prashant Maheshwari, Dean, Faculty of Science and Technology was the guest of honour of the programme.

Dr Maheshwari, in his speech, emphasised on the inter-disciplinary studies and termed as the need of time. He said that, Mathematics was a key subject in the studies of Engineering Sciences. He also appreciated the Department for inclusion of the topics related to the mathematical appli-



Vice Chancellor Dr Subhash Chaudhari addressing the students during the inauguration of workshop to mark birth anniversary of Srinivasa Ramanujan.

cations in modern computing systems. In the workshop, Prof Satyajit Uparkar and Dr Alok Jha of Shri Ramdeo Baba College of Engineering and Management (RCOEM) and Dr Akshay Pachpor, Astral Informatics Pvt Ltd guided the students and also gave hands-on training to the participants. Dr Sanjay Dudhe, Pro V-C, RTMNU inaugurated the quiz and seminar competition. Dr Raju Hiwase, Registrar, RTMNU was present as guest of honour. All post graduate colleges of RTMNU participated in both competitions. Prajwal Walde,

Kunal Ingole, Devendra Sharma of PGT Department of Mathematics, RTMNU were the winners of quiz contest. Manda Hatwar, Firdos Sheikh and Dhiraj Yadav of PGT Department of Mathematics, RTMNU Team B were the runner-up. Mrunali Thakkar, Mayur Barde and Pooja Balapure of Shivaji Science College were the second runners-up.

Pallavi Bagde won the seminar contest, Arnold Francis was the second place holder and Shirley Gregory was the third place winner.

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Press Report

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Members	Dr. G.S. Khadekar
	Dr. Shrikant Warbhe
	Ms Nidhi Shahare
	Mr. Nikhil Jaipurkar
	Mr. Pravin Sayare
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