

2020-21

Annual Report



Shri Mathuradas
Mohota College
of Science,
Nagpur

Contents

RESULT (2020-21).....	3
DEPARTMENT OF BOTANY	4
DEPARTMENT OF CHEMISTRY	5
DEPARTMENT OF COMPUTER SCIENCE.....	8
DEPARTMENT OF ELECTRONICS	11
DEPARTMENT OF GEOLOGY	14
DEPARTMENT OF LANGUAGES.....	18
DEPARTMENT OF MATHEMATICS.....	20
DEPARTMENT OF PHYSICS	21
DEPARTMENT OF ZOOLOGY.....	22
DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS	24
NSS ACTIVITIES.....	25
LIBRARY AND INFORMATION CENTRE	27

RESULT (2020-21)

Year	Program Code	Program Name	Number of students appeared in the final year examination		Number of students passed in final year examination		Pass %
2020-21	B.Sc.	B.Sc. Sem VI	445		434		97.52
2020-21	M.Sc. Zoology	M.Sc. Zoology Sem IV	22	<i>TOTAL</i> <i>111</i>	22	<i>TOTAL</i> <i>107</i>	100.00
2020-21	M.Sc. Botany	M.Sc. Botany Sem IV	23		20		86.95
2020-21	M.Sc. Maths	M.Sc. Mathematics Sem IV	24		24		100.00
2020-21	M.Sc. Chemistry	M.Sc. Chemistry Sem IV	21		20		95.23
2020-21	M.Sc. Physics	M.Sc. Physics Sem IV	21		21		100.00
2020-21	Ph.D.	Ph.D. in Physics	01		01		100.00

DEPARTMENT OF BOTANY

1. Dr. K. D. Gomkale Commemorative Guest Lecture Series:

Botanical Society for the academic session 2021-21 was inaugurated at the hands of Principal Dr. Jeevan Dontulwar. Dr. A. A. Fulzele, (HOD), Dr. A. M. Sawane Incharge-Botanical Society, Dr. S. K. Giri, Ms. S. D. Khalatkar, Dr. M. P. Meshram took efforts for the successful virtual organization of the program. Dr. K. D. Gomkale Commemorative Guest Lecture Series was organised under the aegis of Botanical Society on 21 & 22 January 2021 on online mode on the following link-
<https://play.google.com/store/apps/details?id=com.microsoft.teams>)

Dr. K. D. Gomkale and Vice Principal Dr. R. S. Saha also graced the occasion. 112 students and 8 staff members participated in this program.

Details of guest speakers:

Dr. Padmavathi Bandaru,

Assistant Professor,

Dept. of Environmental Science, GITAM Institute of Science,

GITAM (Deemed to be University), Visakhapatnam, AP

Topic: Environmental Remediation

22 JANUARY 2021 - 12:30 pm to 01:30 pm

Dr. Kumar Avinash Bharati

Scientist,

Central National Herbarium, Botanical Survey of India (BSI),

(Ministry of Environment, Forest and Climate Change), Kolkata, WB

Topic: Introduction to Ethnobotany & Status of Research in India

- Three students has been awarded Ph.D degree in 2021 by RTM Nagpur University, Nagpur. under the supervision of Dr. A. A. Fulzele.
- Teachers from Botany Department have published research papers in various Journals.
- Conducted Value Added Course in Agriculture (Mushroom Cultivation) from 27/10/2021 to 5/11/2021.

DEPARTMENT OF CHEMISTRY

Educational Programs or Activities:

Mock Joint Admission Test (JAM)

Department of Chemistry had organized the online mock Joint Admission Test (JAM) for B Sc Final year students in subject Chemistry on 29th June 2021.

Program outcomes of mock JAM Examination

Online mock Joint Admission Test (IIT-PRE-JAM) for M. Sc. Entrance examination was organized by Department of Chemistry, Shri Mathuradas Mohota College of Science, Nagpur on **29/06/2021 at 12.00 to 3.00 PM**. In this examination total **21** colleges and **327** students of (B. Sc. Semester-IV & VI) RTM, University, Nagpur, Sant Gadge Baba, Amravati University, Amravati and Gondwana University, Gadchiroli had been appeared in the subject Chemistry. In this examination, 5 students got 100 %; 1 student got 99% and 3 students got 98% marks, 29 students (8.8%) out of 327 got distinction, 88 students (27%) out of 327 got 60% Marks, 31 students (9%) out of 327 got more than 50% Marks.

Our college students achieved a very good score in this examination and list of five toppers is as follows-

B.Sc... SEMESTER-VI					
Max Marks - 100		DATE: 29/06/2021		TIME: 12.00 NOON TO 3.00 PM	
Five Topper of our college					
S.	Name of students	Marks	E-mail	M. Number	Batch
1	Swati Premdas Padole	100.00	swatipadole2017@gmail.com	9921553288	M4 (PCM)
2	Ayesha Vilas Diyewar	98.00	vilasdiyewar@gmail.com		M2 PCM
3	Priya Anil Juware	98.00	priyajuware30@gmail.com	7745827103	M3(PCM)
4	Pradnya Keshav Kawale	98.00	pradnyakawale99@gmail.com	9146487384	M3 (PCM)
5	Ajinkya Santosh Kshirsagar	85.00	ajinkyakshirsagar86@gmail.com		M4 (PCM)

STATE LEVEL QUIZ COMPETITION

Department of Chemistry had organized the online STATE LEVEL QUIZ COMPETITION for B.Sc. students in the subject Chemistry on 10th November 2021.

Program outcomes of State Level Quiz Competition:

An online **STATE LEVEL QUIZ COMPETITION** was organized by Department of Chemistry for B.Sc... students in subject Chemistry on 10th November 2021. 355 students had participated from seven different universities including RTMNU, SGBAU, Gondwana Uni, Gadchiroli, and results are as follows:

19 students are qualified got more 60 % score.

First topper is Ms. Tanvi Dubey, Shri RLT College of Science, Akola got 38 marks out of 50.

Second topper is Ms. Aditi Amit Jain, Shivaji Science College, Nagpur got 36 Marks out of 50.

Third toppers are Prachi Gajanan Taiwade & Ms. Komal Ganatra, S. M. M. College of Science, Nagpur got 34 Marks out of 50.

Best Practice of Chemistry – Faculty members of Chemistry department prepared herbal Hand Wash and herbal Sanitizer and distributed to all departments on 25th January 2021 on occasion of “National Voters Day”

Online Poster competition was jointly organized by Department of Chemistry & Society for Promotion of Material Science, Nagpur (National Science Day Celebration) on 28/02/2021

CHIEF GUEST / SPEAKER/ JUDGE: DR. S.R PATIL; DR. KISHOR HATZADEL;

DR. MAGESH THAKARE; DR. AMIT YAUL;

DR. V. D. DEOTALE AND DR. HARSHAL MUNGSE

HIS / HER DESIGNATION: ASSISTANT PROFESSOR

TEACHING STAFF PRESENT -- NUMBER: ALL

STUDENTS PRESENT– NUMBER: 62

Students participated in Intercollegiate Activities

Ph. D Awarded Candidate / Staff : Two Research students

S.N.	Name of Candidate	Name of Supervisor	Title of Thesis	Date of Notification with number	Name of University
1	Mr. Ganesh D. Satpute	Dr. Mrs. R. R. Gupta	Evaluation of Organic carbon in Rice based cropping system and suggestion of Simulative Models	NO./GUG/Ph.D. cell /896/2021 On 07/09/2021	Godwana University, Gadchiroli

2	Mr. Vinod D. Deotale	Dr. M. G. Dhonde	Synthesis of New Thiobarbituric Acids and their Organic Transformations.	RTMNU/Ph.D.(Cell)/20/1307 on 01/04/2021	RTM Nagpur University, Nagpur
---	----------------------	------------------	--	---	-------------------------------

S.N.	Name of Student	Class	Types of Achievement	Organized by	Rank	Date
1	Ms. Rudrakshi Kishor Ambhore	B. Sc. Sem-I	Essay Writing Competition	4 Mah Naval Unit Nagpur (Swachata Abhiyan)	First Prize winner	3 rd Jan 2021
2	Ms. Dhanshree P. Baramase	B. Sc. Sem-I	मानवी माय आणि कोरोना	Nagpur Shikshan Mandal	Second Prize winner	26 th January 2021

Any other relevant Information

Ms. Prajakta Bedarkar, B.Sc. Final year student (2019-20) of our college has joined as home intern at Picxele.

DEPARTMENT OF COMPUTER SCIENCE

1. Computer Literacy Program for non-teaching staff (28 Oct 2021)

Taking into consideration the rapid pace of technology, under the able guidance of our respected Principal, **Department of Computer Science** under the banner of **Internal Quality Assurance Cell** of our college, had organized “**Computer Literacy Program**” for non-teaching staff which is a **best practice** from NAAC perspective. The course was designed by coordinator Mr. S. B. Agarmore, of 36 hours duration, with six modules comprising of Computer fundamentals, Introduction to Windows, MS word, MS excel, PowerPoint and Fundamentals of Internet. It was held between 28th September – 21st October 2021. The “Computer Literacy Program” was inaugurated by Principal Dr. Jeevan R. Dontulwar at the Department of Computer Science on 28th September 2021.

The modules of computer literacy program were taught by Mr. Agarmore, Dr. Nilesh Meshram, Dr. Shraddha Gunjekar, Dr. Vaishali Ramgunde and Mr. Abhijeet Kshirsagar. They gave hands on training to the trainees. Non-teaching staff members actively participated in this computer literacy program with complete dedication. They tried their level best to imbibe computer skills.

Certificate distribution ceremony of computer literacy program was held on 29th October 2021. Honorable President Shri Ashok Gandhi and Secretary Dr. Harish Rathi have graced the ceremony as a President and chief guest respectively. Honorable President Shri Ashok Gandhi, Secretary Dr. Harish Rathi, Principal Dr. Jeevan Dontulwar and Vice-Principal Dr. Rina Saha distributed certificates to the support staff members who completed successfully CLP. Faculty members were also congratulated for their kind efforts by the Management, Principal and Vice-Principal by giving them certificate of appreciation. Certificate distribution ceremony of computer literacy program was attended by teaching and support staff.

2. Webinar on “Trends & Opportunities on Cloud Technology & Information Security” (26th February 2021)

Taking into consideration the rapid pace of technology, under the able guidance of our respected Principal, Department of Computer Science, had organized “TRENDS & OPPORTUNITIES IN CLOUD TECHNOLOGY & INFORMATION SECURITY”. The webinar was organized by Head of the Department of Computer Science and coordinator Mr. Sudhir B. Agarmore.

The webinar was held on **26th February 2021 at 2.00 PM to 3.30 PM**. The

concepts of webinar “**Trends and Opportunities in Cloud Technology & Information Security**” was conducted by Training Officer of Department of Robotics & Cloud Technology, RTMNU **Mr. Anil Tatode**. They guided the graduated students of Computer Science in details about User Segments in the field of Cloud computing, What Experts Say about cloud computing, Revenue Forecast – India, Revenue Forecast - Global, Jobs Profile in Cloud Technology, Employment Opportunities in India, Global Employment Opportunities.

The webinar’s organizing committee consists of the convener of the webinar Mr. Mahesh Yelkar, training Coordinator of Department of Robotics & Cloud Technology and Dr. Jagruti Shah, HOD of Department Of Robotics & Cloud Technology and the webinar truly made successful by the coordinator of Department of computer science Mr. S.B. Agarmore.

The vote of thanks was given by Ms. Shivani Mendhe and after webinar, e-Certificate were distributed to participants on their e-mail Ids, more than **102** students actively participated in this webinar

3. Online webinar on “Emerging Technologies & Their Applications in Computer Science”

Department of Computer Science, had organized “**EMERGING TECHNOLOGIES & THEIR APPLICATIONS IN COMPUTER SCIENCE**”. The webinar was organized by Head of the Department of Computer Science & coordinator Mr. Sudhir B. Agarmore. The webinar was held on **13th March 2021 at 2.30 PM to 4.00 PM**. The chief speaker of webinar was **Dr. Arshad Shareef**, Director Brilllect Tech Solutions Pvt. Ltd. Nagpur, Maharashtra. He guided the graduated students of Computer Science in details about What are the different technologies in market? Like **Web development & Application development**, Real-time use case of these technologies, How these technologies work behind the screen? and What are the scope of learning these technologies like Python, Cloud Computing, Devops, Artificial Intelligence & Machine Learning, Big data Analytics and Cyber Security.

The webinar’s organizing committee consists of the webinar Convener Ms. Pooja Bakshi, Business Development Manager, Brilllect Tech Solutions Pvt. Ltd. Nagpur, Maharashtra and Dr. Ursa Sayeed, CEO Brilllect Tech Solutions Pvt. Ltd. Nagpur, Maharashtra. More than **100** students actively participated in this webinar. The vote of thanks was given by Ms. Shivani Mendhe.

4. Online Workshop on “Python : Case Study” (1st June 2021)

Department of Computer Science, had organized “workshop on python”. The webinar was held on **1st June 2021 at 3.00 PM to 4.00 PM**. The guest speaker of the webinar was **Miss. Mohini Rahate**, Software Developer, Brillect Tech Solutions Pvt. Ltd. Nagpur, Maharashtra. She guided the graduated students of Computer Science in details about Python Programming (Case Study), Introduction about Python, Why python is easy to learn, Python program, Pandas & Matplotlib, Need for Machine Learning, Machine learning at present, How Machine learning works, Types of Machine Learning, Machine Learning Algorithms, Implementation Of Machine Learning with Python & Machine Learning future scope. 77 students got benefitted from this workshop.

The webinar’s organizing committee consists of the convener of the webinar Mrs. Pooja Bakshi, BDM at Brillect. The vote of thanks was given by Ms. Shivani Mendhe.

5. Online webinar on “Core Java Programming”

Department of Computer Science, had organized “**Core Java Programming**”. The webinar was held on **4th August 2021 at 2.00 PM to 4.00 PM**. The guest speaker of webinar was **Dr. Anil Dudhe**, Assistant Professor HOD, Computer Science, P. N. College, Pusad, Maharashtra. He guided the graduated students of Computer Science in details about Core Java Programming. They taught about history of Java, How to run programs in Java, What is Abstract Window Toolkit (AWT), How the event handling is work in Java, What is Applet? How the Applet works and demonstrate the use of applet. **42** students get benefitted from this webinar.

DEPARTMENT OF ELECTRONICS

Symposium

On the Occasion of 109th Birth Anniversary of “Sir Frederic Williams” Two Days International Web Symposium on “Biomedical Instrumentation: A Boon To Healthcare Industry - 2021” (BIBHI-2021) was organized by Department of Electronics, Shri Mathuradas Mohota college of Science, Nagpur in Association with STAMI on 26th & 27th Of June 2021. In all 1295 participants had registered in the Symposium and actively attended the same on online mode that was being streamed live on Youtube channel.

Shri. Ashokji Gandhi, President, NSM, Nagpur, Presided the Inaugural function, Principal, S. M. Mohota College of Science, Dr. J. R. Dontulwar, Chairman BIBHI-2021; Vice- Principal, Dr. Mrs. Rina Saha, Co-Chairman BIBHI-2021; Co- Convenor, BIBHI-2021, were present on the Virtual dais. Dr. N. D. Meshram presented the theme of the function, Dr. Mrs. Pooja Yadav, Organizing Secretary BIBHI- 2021, conducted the Inaugural Proceedings. Shri Ashokji Gandhi, President NSM, Presidential Address at the Inaugural function of BIBHI-2021

Shri. Ashokji Gandhi, President, NSM – Presidential Address

Dr. J. R. Dontulwar, Principal, SMMCS, Nagpur

Dr. Mrs. R. S. Saha, Vice-Principal, SMMCS, Nagpur

Dr. D. S. Bhowmick, Vice-President, STAMI.

Dr. N. D. Meshram, Convener BIBHI-2021 - Theme of the symposium

Dr. Ms. Pooja Yadav:- Vote of Thanks

Dr. P. B. Dahikar, Chairman BOS (Electronics), Chairperson of Keynote Address

Keynote Address 12:00 pm

Chairman: Dr. P. B. Dahikar,

Vice-Principal & Head, Kamla Nehru Mahavidyalaya, Chairman BOS (Electronics), RTMNU, Nagpur

Keynote Speaker: Mr. Reza Ali Khan (Toronto, Canada)

Title: - Biomedical Instrumentation Tenders for laws of Physics Surrounding
Collisions in Contact Sports.

Invited Speaker 01:30 pm

❖ Prof. Gourish Naik

Professor of High Academic Grade in Electronics &
Former Dean, Faculty of Natural Sciences, Goa University, Goa.
Title:- Biomedical Instrumentation

Invited Speaker 2:30 pm

❖ Dr. Prashant Upadhyaya

IEEE (M), IETE (M)-India, Fellow IETE-Australia B.Tech (UPTU) M.Tech
(AMU) PhD (AMU).

Title :- IoT for Healthcare Industries: Its Advantage and Challenges-

Invited Speaker 11:00 am

Dr. Vishal Sharma,

Fulbright Climate Fellow, USA Commonwealth Fellow, UK

Visiting Academician, The University of Sheffield, UK.

Title :- Printable Devices and Applications

Invited Speaker

12:00 pm

Prof. Rattikorn Yimnirun

School of Energy Science and Engineering (ESE) Vidyasirimedhi Institute of
Science and Technology (VISTIC) Wang Chan Vally, Rayong Thailand.

Title : Local Structure Investigation in Functional Materials by
Synchrotron X-ray Absorption Spectroscopy Technique

Invited Speaker

1:00 pm

Prof. V. P. CHOUBE

CHIEF PHYSICIST, TEACHING FACULTY,

P.G.Training Coordinator,

R.S.T. REGIONAL CANCER HOSPITAL NAGPUR, INDIA

Title :- Tumor Control Comprehension–Medical Physicist Prospective

Invited Speaker 02:00 pm

Dr Akhilesh H Shewale (MDS.PERIODONTOLOGY, FAGE, BDS)

Assistant Professor, Department of Periodontology,

Swargiya Dadasaheb Kalmegh Smruti Dental college and Hospital

Title:- Dentronics - The future of Dentistry

Webinar on, “Online Courses; Foreign Internships and Jobs Opportunities” was organized by ICE Robotics in Collaboration with Dept. of Electronics, Shri Mathuradas Mohota College of Science, Nagpur on 24th Oct. 2021.

Dr. N. D. Meshram, Coordinator of Webinar, motivated the students to explore their Potentials to grab chance to study abroad. Dr. N. D. Meshram, appreciated the consistent efforts taken by the students in organizing such a big webinar. He also asked the students not to compare & complaint situations but to face them very positively. He declared the grand success of the webinar by encouraging & blessing the committee members. In all 45 students registered in the webinar and actively attended the same.

DEPARTMENT OF GEOLOGY

Digital (online) media viz., Google meet, Google classroom and WhatsApp have been used in our attempts to facilitate the teaching-and-learning process. Separate groups are created for B.Sc. Sem I, Sem III and Sem V on all the online platforms. The google meet, google classroom and WhatsApp media have been used for teaching the content, discussion, communication, related content delivery and respond to student's query. Moreover, the assessment tools available in google classroom have been used to give assignments and also to take a test and responses from students in due time. After the final assessment, students' work and scores/grades released by separate email so that they could improve their performance.

Educational Programs/ Activities

Bridge course

Bridge course was conducted in October 2021 for students admitted for B.Sc. Semester I for the session 2021-21 and opted one subject as Geology. Geology is not taught at the school level as an individual subject; so, the students do not have the requisite exposure to the subject. They find it difficult to cope up with the Graduate syllabus in geology. So, this bridge course for geology was designed keeping the basic minimum requirements of the subject of Geology in mind. The course was conducted using online platforms Google meet, Google classroom and WhatsApp.

Certificate course

A certificate course on "Basics of Remote Sensing and GIS" was organized by Department of Geology from 26th October 2021 to 23rd November-2021 (total: 30 hours) for Sem-I students in which Ms. Sanjeevani Jawadand converses the basics of Remote sensing and GIS and reinforces the geospatial skills using different exercises. Due to covid-19 pandemic, only the online platforms were used to facilitate teaching-learning process. This course was intended to develop basic understanding of Remote Sensing and GIS enabled the students to understand the concept of Remote Sensing and GIS.

The use of Geographic Information System (GIS) and Remote Sensing (RS) is ubiquitous in our lives, where we use it for making better decisions. So, this course focused on the fundamental of emerging technologies and their diverse applications. Social media and group forum (Google Meet, Google Classroom, WhatsApp) had been used to communicate with students. Related study material (ppts, videos) and the

exercises on the topics had been provided to enable students for practice and also hone their skills. Students performance and response to the course had been evaluated through online tests.

National Science Day

National Science Day (NSD) is celebrated every year on 28th February to commemorate the discovery of the 'Raman Effect' by Sir Chandrasekhara Venkata Raman, for which he was awarded the Nobel Prize in 1930. For the celebration of National Science Day 2021, Department of Geology, Shri Mathuradas Mohota College of Science organized various activities. Amidst COVID-19 situation, all the activities were conducted using online platforms. The prime objective to organize these activities was to promote active involvement of students in science related activity and thereby foster, strengthen and create scientific temper. The details of activities as follows:

On Spot Science Quiz Competition:

Department of Geology had conducted on-spot science quiz competition (based on geology) semester-wise on google meet according to previously notified schedule. In all, 30, 48 and 38 students of Sem II, IV and VI were participated in this activity.

Semester II: 26/02/2021 (9am – 9:40)

Winner: Harsh Tarare

Semester VI: 26/02/2021 (10am – 10:40am)

Winner: Prachi Dharme

Semester IV: 1/02/2021 (10am – 10:40am)

Winner: Mayur Badhe

Seminar Competition

This event was organized on 1st March 2021 on Google meet. Overall, 7 students were participated in the Seminar presentation. For each participant, 5 minutes were allotted for presentation. The presentation was given by students on geology-based topics such as Interior of earth, Remote sensing, Aurora, etc. The winner of this event was Rutuja Dhengre (Sem-II) and the runner-up was Abhishek Bangre (Sem-II).

Essay Competition

Essays were invited on following topics:

Climate change and its global impact

Modern environmental disasters

Fossil fuels in the 21st century

Change of Earth over the Past Fifty years

About 12 students were participated in the event. After due evaluation, the best essays were selected as follows for first and second prizes.

Sayali Nikhare (Sem VI)

Shruti Navghare (Sem IV)

Any other relevant

Students were encouraged to take part in various activities related to Geology conducted by other institutions. Students of B.Sc. Geology were participated in following activities:

E-course on 'Applied Geology' organized by Department of Geology, Nowrosjee Wadia College, Pune conducted on 2nd June 2021

International webinar organized by Department of Chemistry and Department of Geology, Govt. V. Y. T. P G Autonomous College, Durg on 5th, 6th and 7th June 2021.

IN-YAS-CUPB 'blue planet' series organized from 07/06/2021 to 09/06/2021

Environmental Awareness Quiz on the occasion of World Environment Day on 5th June, 2021 by Department of Geology and IQAC, Parbhani

"Importance of microfossils in addressing past climate change: Records from International Ocean Discovery Program" organized on 18th June 2021.

Geo-Knight quiz competition organized by SMM College of Science, Nagpur on 12/06/2021

Geo_Thinkers_3.0 competition, organized by SMM College of Science, Nagpur on 19/06/2021

International Webinar on “Managing the India’s Invisible Resource- The Role of Participatory Groundwater Monitoring and Management at the Village Level” organized on 11/07/2021

3 Days International E-Workshop on Advanced Micropaleontology organized on 23/08/2021

“One Week Free QGIS Training Program conducted by Geotech GIS Training Institute Aurangabad Maharashtra, India” from 12-08-2021 to 18-08-2021.

IGNITE 2021, a one-day Online Lecture organised by Ballygunge Science College, Department of Geology, University of Calcutta on 04/09/2021

Pondicherry University Webinar - Ore deposits and ore forming minerals reg. on 05/09/2021

"History of Dinosaur study in India" National webinar on 15/09/2021.

“GEOCHRON: An Online Interactive Symposium” - a series of lectures. Geological Institute, Department of Geology Presidency University, Kolkata on 16/09/2021
International Geosciences Colloquium – 10th- 11th, 27th November, and 1st -2nd December, 2021
e-Training / Interactive sessions on “Fundamentals of Remote sensing”
from 22-03-2021 to 23-03-2021.

DEPARTMENT OF LANGUAGES

Bridge Course

Bridge Course in English for newly admitted B.Sc. I Sem students was conducted online from 16-10-2021 to 31-10-2021

No. of Participants 278

No. of Teachers Participated 01

Short Term Course in Vocabulary Building

Short Term Course (30 Hrs) in Vocabulary Building for B.Sc. I Sem students was conducted online between 02-11-2021 and 27-11-2021. The Certificates of Participation (171) were distributed online through email after getting Feedback from the students.

No. of Participants 171

No. of Teachers Participated 01

Essay Writing Competition

Essay Writing Competition (in about 200 words) was organized online on 18-12-2021 for the students of B.Sc. I semester. The topics covered under the Essays were My Ambition in Life, Online Education, Craze of Technology among the Youth etc. The students expressed their thoughts and shared their opinions on the given topics freely. **Ms. Poonam Zilpe (CS) & Mr. Harshal Meshram (CBZ) grabbed the first position.**

No. of Participants 109

No. of Teachers Participated 01

Poster Competition

On the eve of Republic Day, (25th Jan. 2021) a Poster Competition was held by Nagpur Shikshan Mandal. The participating students from the Language Department presented their posters on the theme of growing Corona pandemic & Human Values. It signified the awareness about the virus and its repercussions on the society as a whole. Ms. Ishika Anturkar, Ms. Kashish Mahajan, Ms. Sejal Bisen, Ms. Mansi Gotmare, Ms. Gauri Dhande, Ms. Gayatri Dande (Jr. College) & Ms. Dhanshree Barmase actively participated in the Competition. **Ms. Dhanshree Barmase from B.Sc. I Semester PCM batch stood among the bevy of contestants with the Second rank.** Dinesh

Kotangale (JCT) & Dr. JA Janbandhu, HoD remained instrumental to the student's motivation.

No. of Participants 07

No. of Teachers Participated 02

Rajbhasha Din Celebration

In order to celebrate the *Rajbhasha Din* on 27th February every year, we invite an eminent speaker. This year Prof. Dinesh Kotangale from the Department of Marathi of our college was invited as a guest speaker to impart the values and necessities of mother tongue to the students of B.Sc. I semester. This day is also celebrated as birth anniversary of Late great poet of Maharashtra Shri V.V. Shirvadkar

No. of Participants 64

No. of Teachers Participated 02

National Science Day Quiz

On the august occasion of celebrating the National Science Day on 28th Feb. 2021, the Dept. of English had organized a Science Quiz for B.Sc. I semester students so as to promote the awareness of science among the students and to trigger their natural curiosity for further discussion about scientific progression across the globe. 47 students participated in the Quiz among whom **Ms. Pratiksha Dhakate CS, Mayuri Badhe CS, Mayuri Lande G2, and Ms. Bhavna Selokar G2** grabbed the top positions.

No. of Participants 47

No. of Teachers Participated 01

DEPARTMENT OF MATHEMATICS

Educational Programs / Activities

1. Department of Mathematics conducted '**Bridge course**' on 17 to 24 October 2021 for B.Sc. Sem- I students by S.T. Rathod and P.V. Nimje.
2. Department of Mathematics on the occasion of "**National Mathematics Day**" organized a webinar on "**Life Journey of Shrinivas Ramanujan**" by Dr. Kalpana Pawar, Associate Professor & head, Department of Mathematics, Shri. R.R. Lahoti Science College, Morshi, Dist.: Amravati on December 22nd 2021.
3. Department of Mathematics on the Occasion of "**International Pie-Day**" organized a Quiz competition for **M.Sc. Sem II and IV** in which following students secured prizes.
 - a) Vaibhav Lonare
 - b) Pooja Tole
 - c) Vaishnavi Moghe

• **Staff Achievements**

1. Shri. S. T. Rathod has presented a research paper in International Conference of Advanced in Physical, Chemical & Mathematical Science with title "Five Dimensional Cosmological Models with perfect Fluid in general Theory of relativity" organized by Department of Mathematics R.T.M. Nagpur University from 13 to 16 February 2021.
2. Shri. S. T. Rathod has published a research paper in International Journal of Research with title Synthesis and Characterization of Conducting Polymeron with volume 8, Page No. 113-116, ISSN: 2395-602x on 13 May 2021.

• **Students Achievements**

1. M.Sc. Semester III student Praful Jambhule is Participated in PPT Presentation Competition on the occasion of '**National Youth Day RTMNU**' Organized by RTM Nagpur University on 20th Jan 2021.

DEPARTMENT OF PHYSICS

1. Bridge course in physics conducted for the newly admitted students for Semester – I in the month of October 2021.
2. Online Student seminar for UG and PG students was organized on the celebration of national science day 28 February 2021.
3. Students of this department participated in CRT programme organized by T &P cell of the college. Dr. V. V. Soman conducted the above programme.
4. Staff members of physics department participated in tree plantation programme on the occasion of foundation day on 18 July 2021.
5. Online lecture was organized by physics department on 'Fermi problem' by resource person Prof. M. L. Ogalapurkar, Pune, on 28 February 2021. Dr. V. V. Soman conducted the above programme.
6. Unit test for SEM I, I , III, IV, V and VI was conducted by the faculties of this department .
7. Food packets are provided d to relatives of COVID- 19 patients in the government medical college, Nagpur by Dr. D. V. Nandanwar faculty of this department on 14 April 2021.

DEPARTMENT OF ZOOLOGY

The following activities were conducted by the Department of Zoology during 2021-21:

VISIT TO RESEARCH LABORATORY

- M.Sc. Zoology Third Semester project students of Dr. Rina Saha visited ICAR-Central Citrus Research Institute, Nagpur on 26 Nov 2021. Students learnt about the research being carried out on citrus crops and horticulture. They visited various labs in CCRI and also learnt about different kinds of sophisticated lab instruments.

PARTICIPATION OF STUDENTS IN ECONFERENCE

- M.Sc. Zoology Sem-III students, Rinkita A. Giradkar and Pitambari S. Bhagat presented ePosters at Second International eConference on DNA Forensics conducted on 27 and 28 Feb 2021 at New Delhi. Rinkita A. Giradkar won third prize in ePoster Presentation.

GUEST LECTURES

- On 03 Dec 2021, the Departments of Zoology, Botany and Chemistry jointly organized online guest lecture by Dr. Anoop Srivastava, Principal Scientist (Soil Science), ICAR-Central Citrus Research Institute, Nagpur on 'Research Opportunities in Citrus'. PG students of Zoology, Botany and Chemistry attended the lecture.
- On 28 Feb 2021, National Science Day was celebrated by organizing an online Guest Lecture on the topic "Personal Genomes to Precision Medicine-Implications in Rare Genetic Diseases" by Dr. Sridhar Sivasubbu, Senior Principal Scientist, CSIR Institute of Genomics and Integrative Biology, New Delhi.
- On 02 March 2021, an online Guest Lecture by Dr. Vinod Scaria, Principal Scientist, CSIR Institute of Genomics and Integrative Biology (IGIB), New Delhi was organized. His presentation was on the topic "Covid-19 Genomics: Mutations, Reinfections and Escapes"
- On 03 March 2021, to celebrate 'World Wildlife Day,' an online guest lecture by Ms. Vaishnavi Kulkarni, Assistant Professor in Department of Biodiversity at Dr. B. N. Bandodkar College, Thane was organized. Her presentation was on the topic "A walk into the wild."

- On 06 March 2021, an online Guest Lecture by Dr. Pradeep Kagane, Livestock Development Officer, Department of Animal Husbandry, Nashik was conducted. His lecture was on the topic “Climate Change and Mitigation.” He also talked on the uses and cultivation of *Azolla*.

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS

1. Dr. S. S. Bhosale participated at state level Webinar on Olympics Day celebration on 23rd June 2021 organized by swimming association of Maharashtra Pune.
2. Dr. S. S. Bhosale participated at National level Webinar on Drowning Prevention lifesaving & water safety Youth Awareness Program on 3rd July 2021 organized by JD foundation Nagpur.
3. Dr. S. S. Bhosale participated on the occasion of International Youth Day webinar “Role of youth Swimmers” in swim survival on 11th and 12th August 2021.
4. Dr. S. S. Bhosale participated at national level webinar on Importance of fitness during COVID 19 pandemic 5th August 20 organized At V.M.V. College, Nagpur.
5. Dept. of Physical education organized National Sports day in the memory of Major Dhyanchand on 29th August 2021 and felicitated various students who had participated and won at national and state level competition.
6. Dept. of Physical education organized summer coaching camp for various sports during 15th October to 30th October 2021.
7. Dr. S. S. Bhosle participated at National webinar on status of Women in Higher education in India-Redefining roles on Monday 4th Jan 2021 organized by P.W.S. College Nagpur.
8. Senior state level Swimming Competition was held at Pune from 16th & 17th March 2021 in which some of our college students participated – Yash Lanjewar, Tanmay Kahate, Siddesh Hardas and Abhishek Lohkare.

NSS ACTIVITIES

During the ongoing Covid-19 pandemic, NSS volunteers of Shri Mathuradas Mohota College of Science, Nagpur volunteered in number of social activities and made a small contribution to the society. Looking to the safety of students, the activities were undertaken in the month of June 2021 following the social distancing and safety precautions. The activities undertaken were:

1. **Distribution of face masks, medicine and food items:**

On **06.06.2021**, **face masks, homeopathic medicine *Arsenicum album 30* and non-perishable food material** were distributed by NSS volunteers **near the college**. **Around 150** needy, homeless and underprivileged members of the society around the college benefited from this. For the same office bearers of Nagpur Shikshan Mandal, Shri A. K. Gandhi, President, and Dr. H. Rathi, Secretary were prominently present. Under the guidance of Principal Dr. J. R. Dontulwar, the food items were prepared and packed in the college under hygienic conditions. The teaching and non-teaching staff members were present and boosted the spirit of the volunteers.

The homeopathic medicine *Arsenicum album 30* was distributed in collaboration with Dr. Rajesh Ratkantiwar, homeopathic practitioner at Sakkardara Square. Dr. Ratkantiwar explained the significance of this immunity booster medicine and dosage too.

Volunteers grabbed the opportunity to create awareness about the viral infection among the general public. Students took to the mike and explained the safety measures and personal hygiene to be followed during this pandemic.

The following students volunteered in the programme:

Sr. No.	Name	Class
i.	Tejas Dharmale	B.Sc... II year
ii.	Harshada Bambode	B.Sc... II year
iii.	Krushna Naghate	B.Sc... II year
iv.	Punyashree Jodh	B.Sc... II year
v.	Neha Varma	B.Sc... II year
vi.	Vaibhav Sakharkar	M.Sc. I year
vii.	Vaishnavi Kawatkar	M.Sc. I year

2. Blood donation:

Keeping in view the shortage of blood and its components faced by hospitals, a **blood donation camp** was organized on **10.06.2021**. This camp was organized in association with Prabhatai Ojha Smruti Seva Sanstha, Nagpur. A total of 157 donors donated blood, out of which 5 were students of the college.

3. Distribution of face masks and medicine:

On **29.06.2021**, NSS volunteers distributed **reusable face masks and homeopathic medicine *Arsenicum album 30*** at **Solanki Patil Wadi**, a **slum area** near the college. More than 250 citizens from the slums benefitted from the activity. For the same Shri S. N. Dharme, Vice-Principal, Jr. College, Shri Mathuradas Mohota College of Science, Nagpur was present along with the staff members. NSS volunteer Mr. Vaibhav Sakharkar (M.Sc. Botany I year) led the activity from the front and worked hard towards creating awareness. He along with the staff members requested the people to follow social distancing norms during the distribution and thereafter too and also told the methodology of consuming the immunity boosting homeopathic medicine. The other two volunteers Ms. Neha Varma and Mr. Krushna Naghate, both B.Sc... II year students, distributed the material.

LIBRARY AND INFORMATION CENTRE

In our college library we have excellent and huge collection of print and digital material especially great collection on science books. We have total 34149 books and more than 7000 old journals and periodicals. We subscribed 19 Journals, 16 periodicals and 16 News Papers. We have 13 computers with internet access. We also member of Inflibnet N-list which allowed to access more than 70000 E-Books and 3500 E-Journals to our library users. Apart from that we have carried out some of activities during the session 2021-2021, as under.

1. Tribute to Dr. Bhimrao R. Ambedkar Mahaparinirvan divas on 6th December 2021.
2. We followed Dr. A.P.J. Kalam Birthday as a “**Vachan Prerna din**”, on 17th October 2021.
3. National Reading day 19th June 2021.
4. Shivaji Maharaj Janmotsav Sohla 19th Feb. 2021

