

# Vigyanika

2021-22



SHIKSHA MANDAL'S  
**BAJAJ COLLEGE OF SCIENCE, WARDHA**

A Hindi Linguistic Minority College  
(Autonomous College - Affiliated to RTM Nagpur University)  
Jamnalal Bajaj Marg, Civil Line, Wardha - 442001 (M.S.)

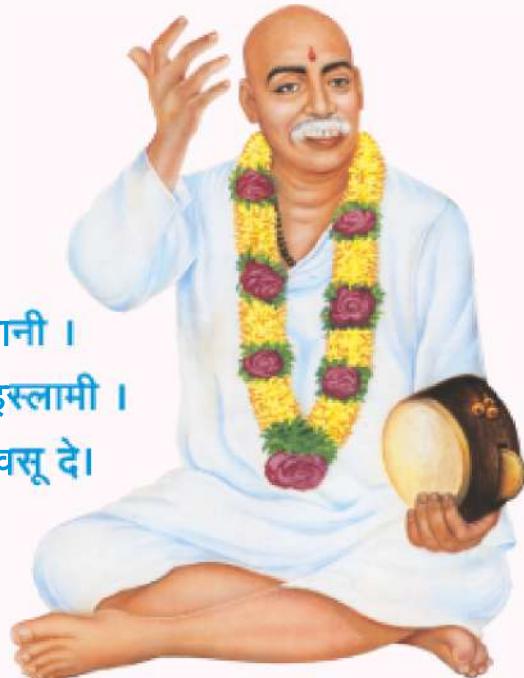
Phone (Office) : 07152 - 241696, Fax : 07152-230515

E-mail : [jbsciencewardha@yahoo.co.in](mailto:jbsciencewardha@yahoo.co.in) / Website : [jbsw.shikshamandal.org](http://jbsw.shikshamandal.org)



## ‘विद्यापीठ गीत’

या भारतात बंधुभाव नित्य वसू दे ।  
दे वरची असा दे ।  
हे सर्व पंथ-संप्रदाय एक दिसू दे  
मतभेत नसू दे ॥८॥



नांदोत सुखे गरिब-अमिर एकमतानी ।  
मग हिंदू असो, ख्रिश्चन, वा हो इस्लामी ।  
‘स्वातंत्र्यसुखा’ या सकलांमाजि वसू दे।  
दे वरची असा दे ॥९॥

सकळांस कळो, ‘मानवता, राष्ट्रभावना’ ।  
हो सर्वस्थळी मिळूनि ‘समुदाय-प्रार्थना’ ।  
उद्योगि तरुण वीर शीलवान दिसू दे ।  
दे वरची असा दे ॥१२॥

हा जातिभाव विसरुनिया एक हो आम्ही ।  
अस्पृश्यकता समूळ नष्ट हो जगातुनी ।  
खळ निंदका मनीहि ‘सत्य न्याय’ वसू दे।  
दे वरची असा दे ॥३॥

सौंदर्य रमो घर-घरांत स्वर्गि ज्यापरी ।  
ही नष्ट होऊ दे विपत्ति, भीती बोहरी ।  
तुकड्यास सदासर्वदा सेवेस कसू दे ।  
दे वरची असा दे ॥४॥

**राष्ट्रसंत तुकडोजी महाराज**



SHIKSHA MANDAL'S

## BAJAJ COLLEGE OF SCIENCE, WARDHA

vigyanika  
2021-22



### EDITORIAL BOARD

#### Chairman

Dr. Om Mahodaya  
Principal

#### Chief Editor

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#### Student's Representative

Ms. Komal Bajaj      Mr. Sanket Waghmare

## OUR MOTIVATION



Mata Jankidevi Bajaj



Jamnalalji Bajaj



Shrikrishnadasji jajoo



Kamalnayanji Bajaj



Dr. Shrimannarayan Agrawal

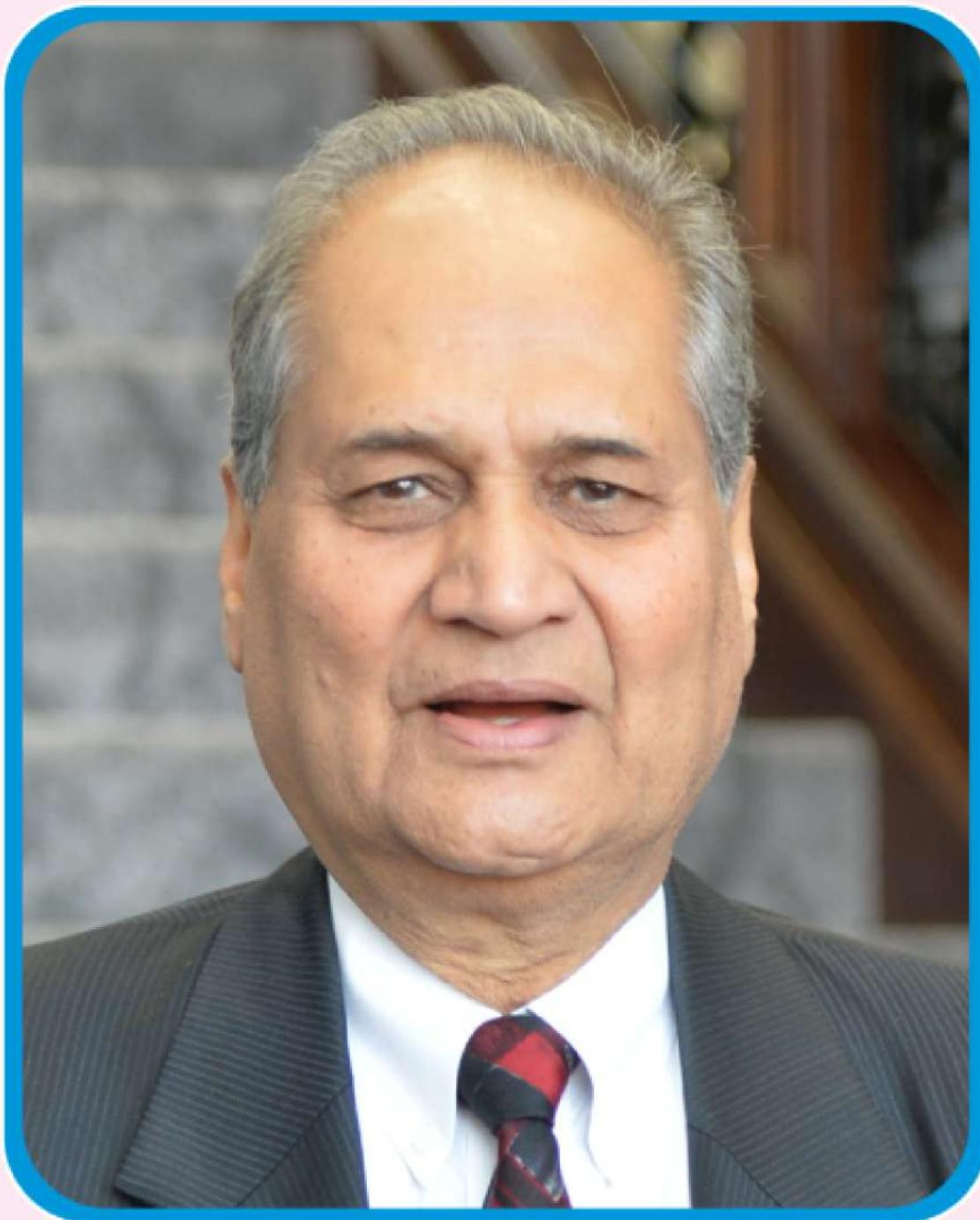


Ramkrishnaji Bajaj



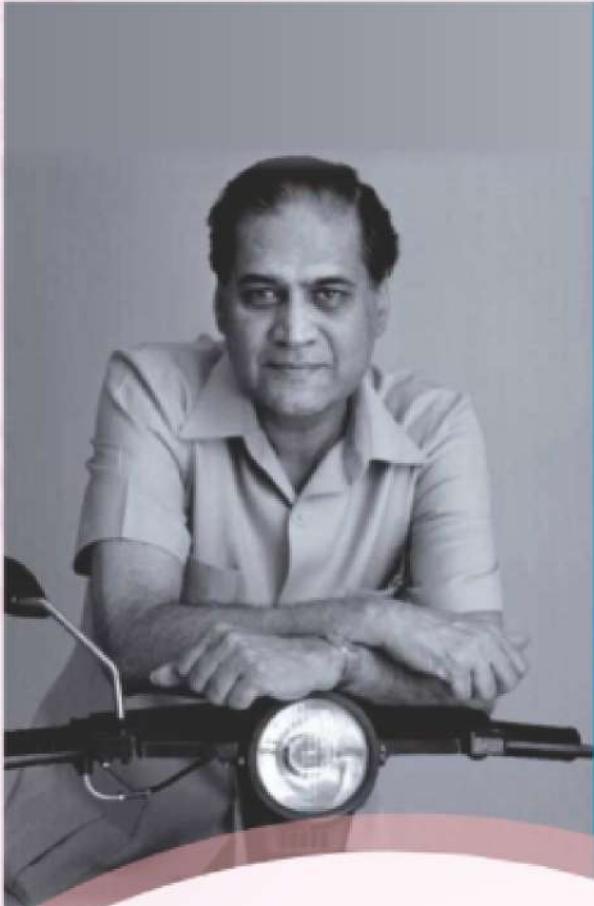
Smt. Madalsa Narayan

## Our Inspiration



**LATE SHRI RAHUL BAJAJ**  
**(1938 - 2022)**

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Shri Rahul Bajaj graduated from St Stephen's College, Delhi in 1958 with an Honours Degree in Economics. Shri Rahul Bajaj also obtained a degree in Law from Bombay University and an MBA from Harvard Business School.

**1968** Chief Executive Officer  
Bajaj Auto

**1972** Managing Director  
Bajaj Auto Ltd.

**1979-80 and  
1999-2000** President of the CII.

**1986-89** Chairman of Indian Airlines

**2001** Awarded Padma Bhushan

**2006-2010** Member of Parliament  
(Rajya Sabha)

**April 2021** Chairman Emeritus  
Bajaj Auto Ltd.

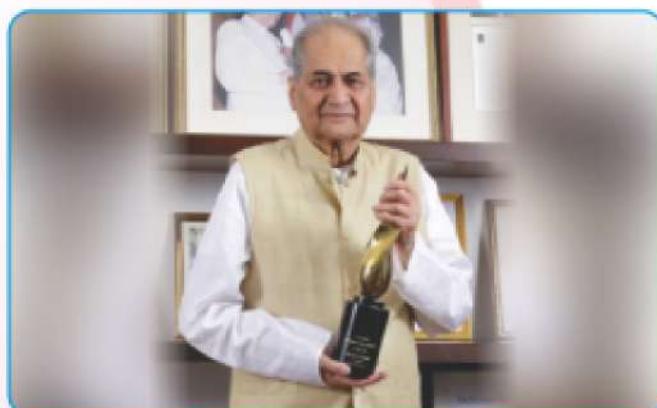
**1995-2022** President  
Shiksha Mandal, Wardha

## A Life Well Lived

# SHRI RAHUL BAJAJ

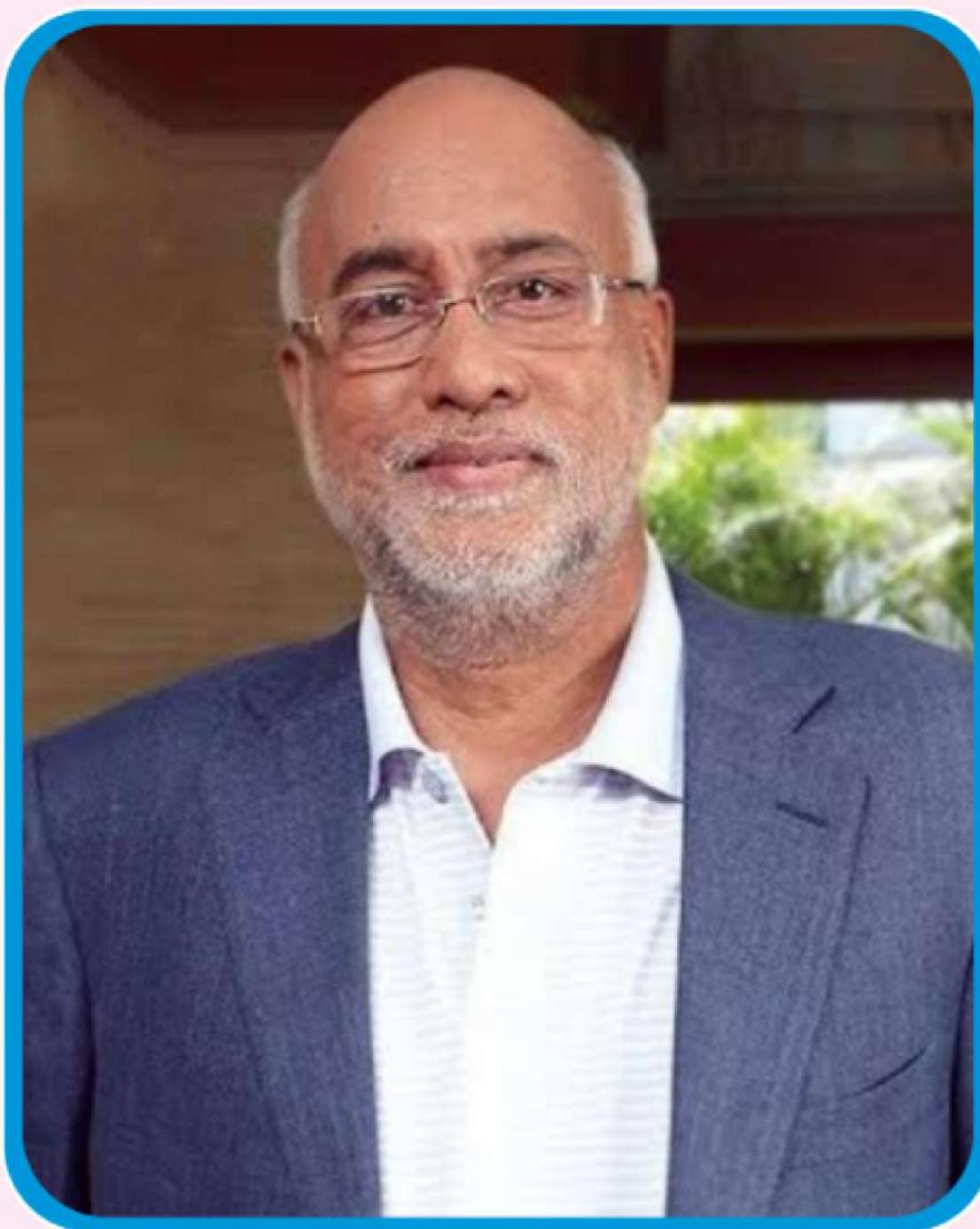


Shri Rahul Bajaj receiving Padma Bhushan from  
the Hon'ble President of India Shri K. R. Narayanan



Ananta-ASPEN Leadership Award

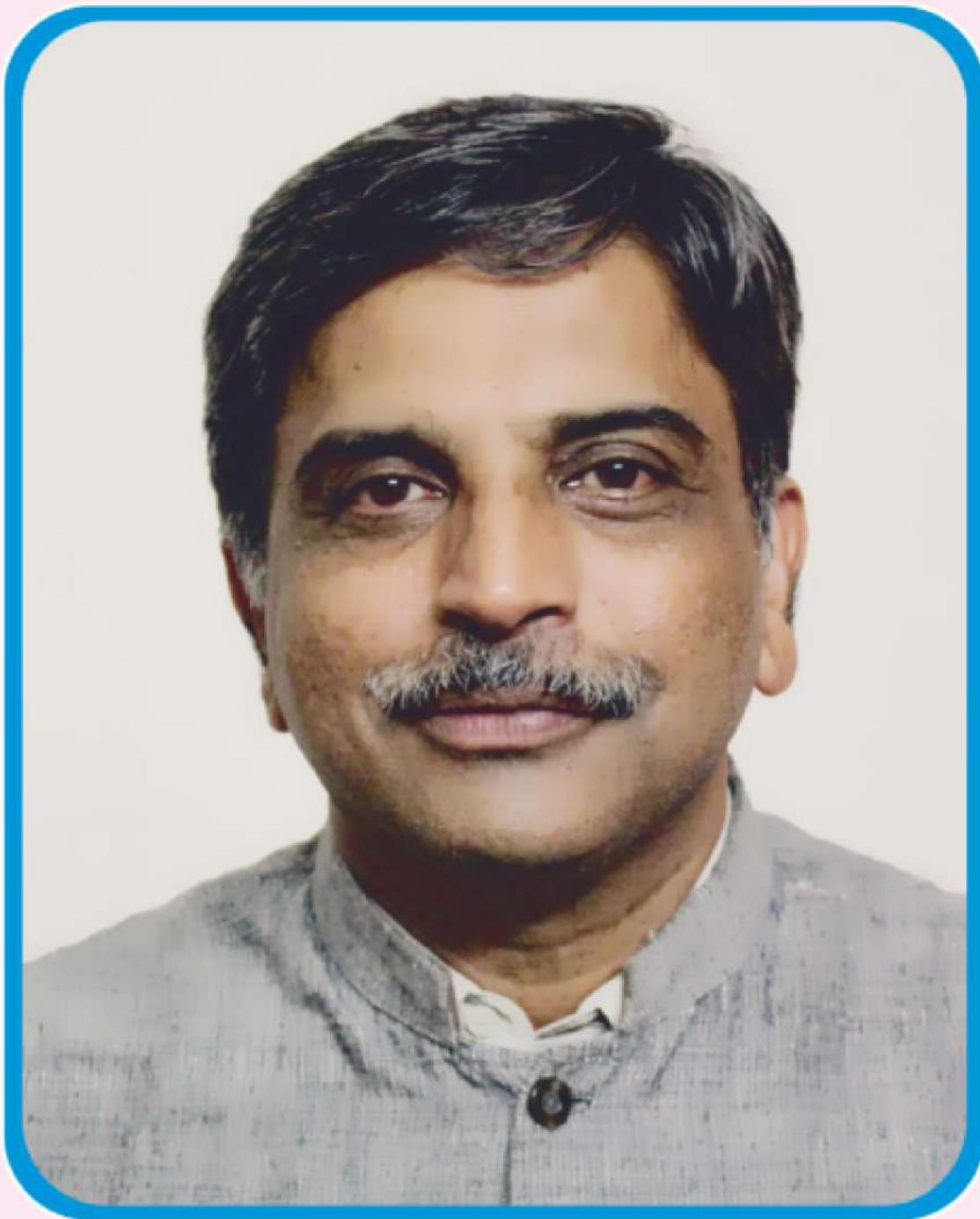
## OUR PRIDE



**Shri. Shekharji Bajaj**

President & Trustee

## OUR INSPIRATION



**Shri. Sanjayji Bhargava**

Chairman  
Shiksha Mandal, Wardha

# Bajaj College of Science, Wardha

## Autonomous College

### COLLEGE DEVELOPMENT COMMITTEE

Sr.No.	Name	Designation
1.	Shri. Sanjay Bhargava	Chairman
2.	Shri. P. D. Khemuka	Management Representative
3.	Dr. P. V. Tekade	Teacher Representative
4.	Dr. Miss. P. F. Dhabarde	Teacher Representative
5.	Shri. G. V. Lakhotiya	Teacher Representative
6.	Shri. C. S. Umbarkar	Non-Teaching Representative
7.	Dr. Manoranjan Patnaik	Research Representative
8.	Dr. Narendra Kanhe	Education Representative
9.	Shri. Atul Tarale	Ex-Student & Social Work Representative
10.	Shri. R. K. Warkhedkar	Industry Representative
11.	Dr. S. S. Zade	IQAC Member
12.	Dr. Om Mahodaya	Principal / Secretary

### SCHOOL COMMITTEE (JUNIOR COLLEGE)

Sr.No.	Name	Designation
1.	Shri. Sanjay Bhargava	Chairman
2.	Shri. P. D. Khemuka	Joint Secretary
3.	Dr. C. D. Zanwar	Member
4.	Shri. S. E. Nakhale	Jr. College Teacher Representative
5.	Shri. S. S. Gandhewar	HSC Voc. Teacher Representative
6.	Dr. Om Mahodaya	Principal / Secretary

# From Chief Editor's Desk....

Dear Readers,

Greetings to you!

"An ignited mind is the most powerful weapon on the earth, above the earth and under the earth; and this is got through education.

At the end of every academic year, the college magazine 'Vigyanika' which is truly literary and creative document of the talents from the students is published. The prime motto of Vigyanika is to generate creative content from the students and the reporting about college events and notable issues within the college.

Vigyanika-2022 is a trilingual student magazine which provides the platform to express them and showcases thoughts and feelings, both through writing and their art work. Meritorious students with their performance, achievement in sports, extracurricular events and students who have won laurels for the college in national and interuniversity championship find place in the college, sports, cultural and literary activities during the academic year that reflect the values and the quality of the institution itself.

Publication of Vigyanika-2020 is a collective work. We have been fortunate enough to be backend by a team of very motivated and dedicated colleagues and students to thanks for their contribution.

I express my sincere gratitude to Hon'ble Shri Sanjayji Bhargava, Chairman of Shiksha Mandal Wardha and Dr. Om Mahodaya, Principal of our college, for their constant encouragement and motivation required for publication of this issue. I express my sincere gratitude to Shri. Rajesh Dambhare, Shri. Raj Makanwar, Prof. Rajendra Katre, Prof. Surekha Dubey, Shri Sagar Durge, Prof. M. G. Chute and Dr. Pranjali Ghuse. I extend my sincere thanks to Vilas Publisher for technical support. I would like to thank Shri. Dhiraj Dahelkar for his support. Also I would like to express my loving gratitude to our students for their overwhelming participation. I am highly obliged to all the members of editorial board for providing support, keen interest and Kind Corporation.

Any suggestions or criticism on the magazine would be most welcome that encourages thinking critically and creatively.

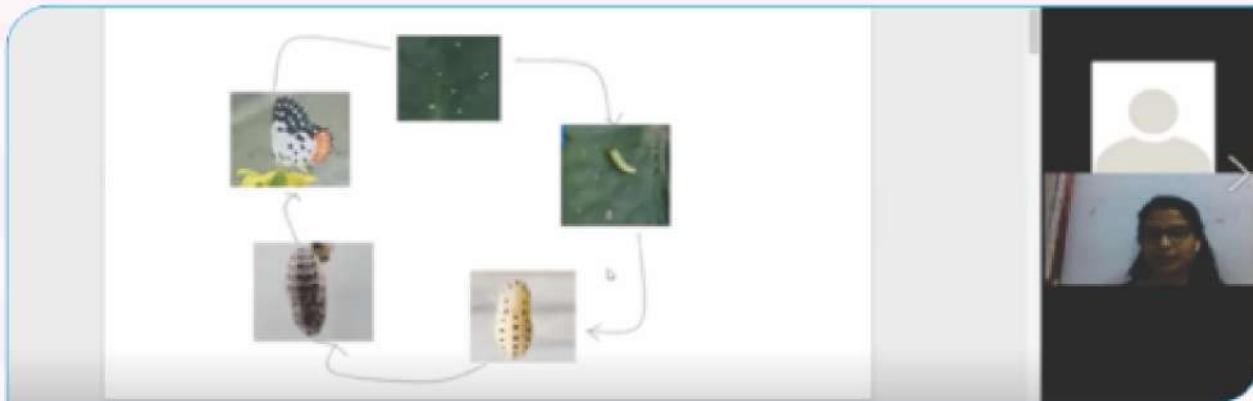
Dr. Mrs. N. P. Mohabansi

## Editorial Crew

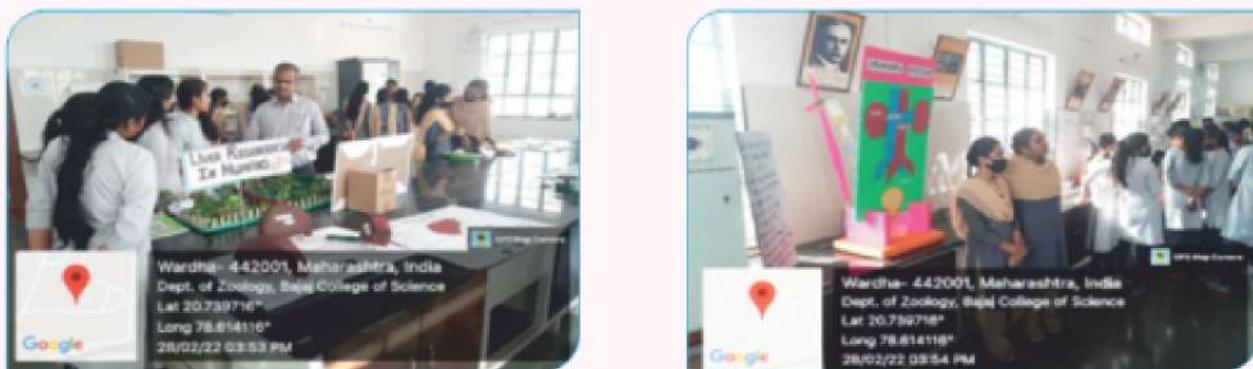
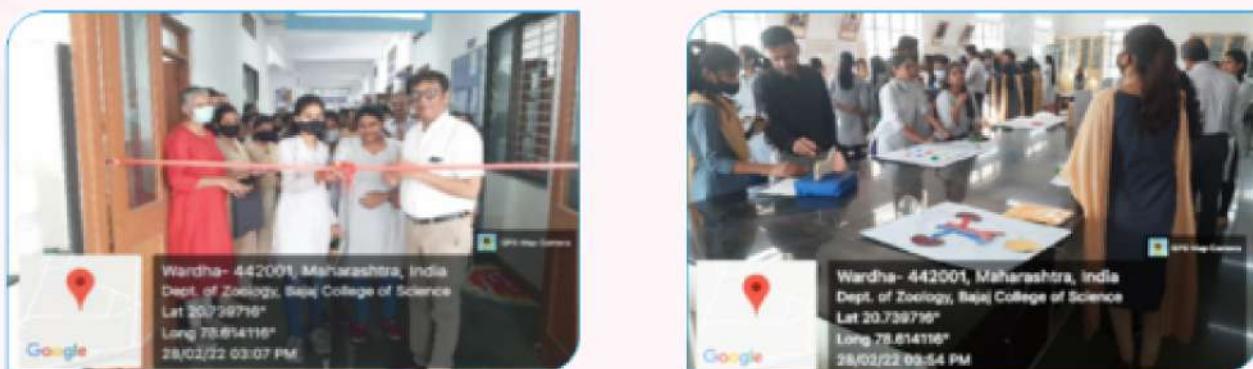


Left to right: Prof. Sagar Durge, Dr. Arati Pranjale, Prof. Surekha Dubey, Dr. Mrs. N. P. Mohabansi (Chief Editor), Dr. Om Mahodaya (Principal), Prof. Sanjay Nakhale (Vice Principal), Prof. Rajesh Dambhare, Prof. R.T. Katre, Dr. Snehal Makanwar.

## Zoology Department



A glimpse of “Online lecture and Workshop” event



Glimpses of Model and Rangoli Competition on National Science Day



State Level Bio Genius Competition



Guest lecture by Dr. Archana Mahakalkar

## Chemistry Department



Bajaj Science education centre visit



"Young Scientist Award" conferred upon Dr. P.G. Borkar by ISAS, Nagpur Chapter



Innovative idea/concept competition



Prize winners: "Model making & poster making competition" on "Best out of waste" at Santaji Mahavidyalaya, Nagpur

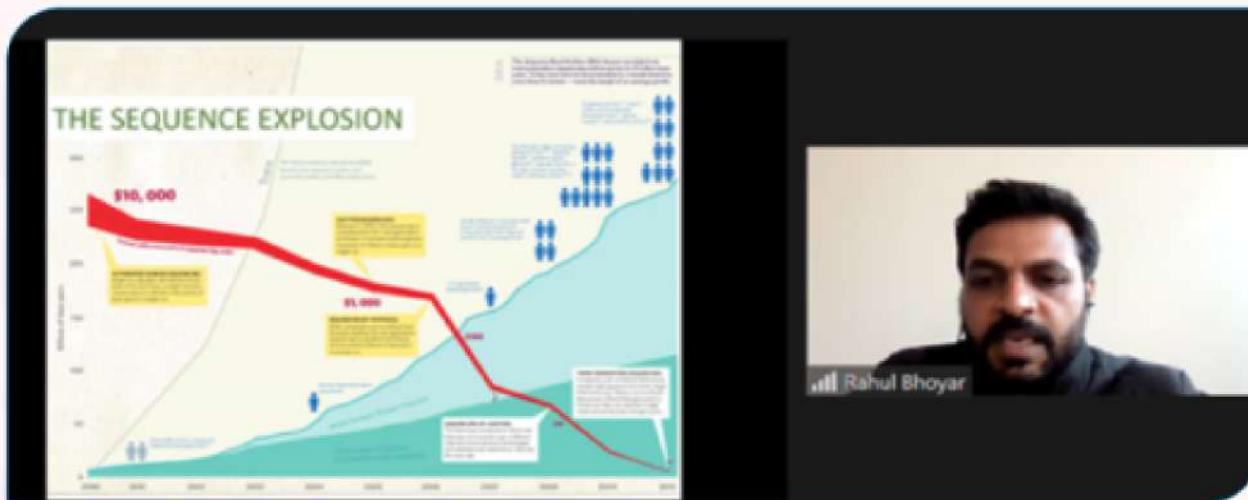


Workshop on Fire safety

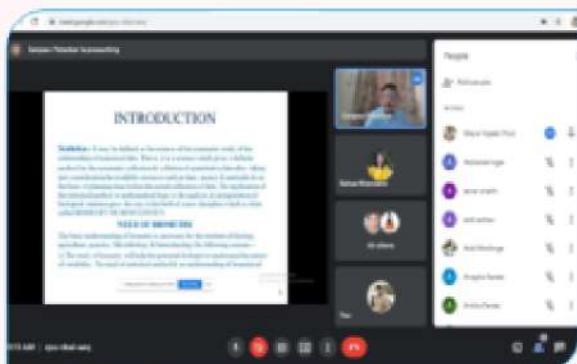
## Population Education Club (PEC)



# Microbiology Department



Inauguration of Microbiology Biotechnology Society Student Unit for the session 2021-22 and Guest Lecture  
by Dr. Rahul Bhoyar, Project Scientist, CSIR Institute of Genomics and Integrative Biology, New Delhi



Online Guest lecture on "Statistical Evaluation of Corona Vaccination Related Data" by Dr. Sanjeev Patankar, Co-Ordinator, MSI, Maharashtra and Goa Region



"P. G. Diploma in Clinical Research"



Motivational Talk by Successful Innovator: Dr. Rahul Suryawanshi, Research Scientist, Gladstone Virology Institute, San Francisco, California, United States



Guest lecture by Dr. Mrs. S. S. Khandare on National Education Policy at state level Education Conference organized by Maharashtra English school trustees' association (MESTA) at BapuKuti Sewagram on dated 5 and 6 th March 2022.

# Biotechnology Department

**Bajaj College of Science, Wardha**  
An Autonomous College affiliated to MHTC Nagpur University, Nagpur  
NAAC Accredited 'A' (CGPA 3.01), CPE (Phase II)  
**Department of Biotechnology**  
**Organizes**  
**"Online Departmental Seminar Competition"**  
on  
UG Biotechnology Curriculum of Sem III and Sem V  
05-09-2021 and 16-09-2021  
**Congratulation Winners**

Winners: B.Sc. Sem III Biotechnology	Winners: B.Sc. Sem V Biotechnology
First Prize: Ankut Vitarkar	First Prize: Shreya Magar
Second Prize: Aishwarya Chaudhukhade	Second Prize: Kratika Panhude
Third Prize: Angka Shinde	Third Prize: Akshat Chanda

Department of Biotechnology, Bajaj College of Science, Wardha organized "Online Departmental Seminar Competition" on UG Biotechnology Curriculum of Sem III and Sem V on 5<sup>th</sup> September 2021



Department of Biotechnology, Bajaj College of Science, Wardha Organised lecture on "How to Prepare effective e-Poster and Abstract" by Dr. Kunal A. Kale for B.Sc. II<sup>nd</sup> and III<sup>rd</sup> year Biotechnology students on 25<sup>th</sup> October 2021.



**Bajaj Manohar's  
Bajaj College of Science, Wardha**  
An Autonomous College affiliated to MHTC Nagpur University, Nagpur  
NAAC Accredited 'A' (CGPA 3.01), CPE (Phase II)  
**Certificate of Appreciation**

This is to certify that Mr. Atharva Bhingare of Bajaj College of Science, Wardha has participated and awarded Second rank in UG Category (Biological Sciences) of "Research Innovative Idea/Concept Competition" organized by Research promotion Cell of Bajaj College of Science, Wardha on 20<sup>th</sup> November, 2021

(Dr. Pravin Tokade)  
Convenor

(Dr. Om Madhavkar)  
FACULTY

Mr. Atharva Bhingare won Second Prize in "Innovative Idea /Concept competition" for student organized by Research Innovation Curricular Hours (RICH) Bajaj College of Science, Wardha on 20<sup>th</sup> November, 2021.

# Biotechnology Department



Mr. Laukik Thakre has participated and won First Prize in Online National Level Essay Writing Competition organized by Cultural Committee, Bajaj College of Science, Wardha on the occasion of "International Youth Day" on 12<sup>th</sup> January 2022.

Shiksha Mandir's  
**Bajaj College of Science, Wardha**  
(An Autonomous College affiliated to RTM Nagpur University, Nagpur)  
**Certificate of Appreciation**  
This is to certify that **Miss. Rimzim Ravindra Karode, Maharashtra State** has participated in solo dance and won First Prize in Online National Level Dance Competition organized by Cultural Committee, Bajaj College of Science, Wardha to commemorate 73<sup>rd</sup> Republic Day, "Azadi ka Amrit Mahotsav", on 26<sup>th</sup> January 2022.  
Dr. Usha Malode - Bhopal Convener Extra Curricular Activity Dr. Om Mahadev Principal

Miss. Rimzim Ravindra Karode, won First Prize in Online National Level Dance Competition organized by Cultural Committee BCS Wardha to commemorate 73<sup>rd</sup> Republic Day "Azadi ka Amrit Mahotsav on 26<sup>th</sup> January 2022.

**CERTIFICATE**  
This is to certify that  
  
**Ms. BHARGAVI NAYAN DESHPANDE**  
B.Sc. 1st Year, Department of Biotechnology  
Bajaj College of Science (Autonomous), Wardha  
has successfully completed 15 days  
Certificate Course and Internship  
on "Computer Aided Drug and Vaccine Design" during 29 January to  
12 February 2022. This certificate has been presented based on the  
candidate's satisfactory performance in the final assessment.

**CERTIFICATE**  
This is to certify that  
  
**Mr. YASH ARVIND PACHARE**  
B.Sc. Final Year, Department of Biotechnology  
Bajaj College of Science (Autonomous), Wardha  
has successfully completed 15 days  
Certificate Course and Internship  
on "Computer Aided Drug and Vaccine Design" during 29 January to  
12 February 2022. This certificate has been presented based on the  
candidate's satisfactory performance in the final assessment.

Institute of Innovation, Trivannamalai, Tamilnadu India organized 15 days certificate course and internship on "Computer Aided Drug and Vaccine Design" during 29<sup>th</sup> January to 12<sup>th</sup> February 2022.



On the occasion of National Science Day 2022 on 2<sup>nd</sup> March 2022  
Department of Microbiology and Computer Science of Dharampeth, M.P. Deo Memorial Science College, Nagpur organized video making competition. Sanika Golait got 2<sup>nd</sup> prize and Aniket Vitalkar got consolation prize.

# Biotechnology Department

**Shiksha Mandir's  
Bajaj College of Science, Wardha  
(AUTONOMOUS)**

**DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY**

**In association with  
Microbiologist Society, India  
ANNOUNCES**

**MICROBIOLOGY BIOTECHNOLOGY SOCIETY  
Student Unit Inauguration &  
Guest Lecture  
ON  
"Next-generation Sequencing: A vital tool in  
Disease Diagnosis and Pandemic Management"  
1<sup>st</sup> February 2022, 12.30 pm**

**Inauguration at the Hands of**

**Dr. A. M. Deshmukh  
President, Microbiologist  
Society, India**

**Guest of Honour**

**Dr. Sanjeev Patankar  
President, Microbiologist Society,  
India, Maharashtra & Goa Region**

**Speaker**

**Dr. Rahul C. Bhoyar  
Project Scientist,  
CSIR- Institute of Genomics and Integrative Biology,  
New Delhi**

**Dr. Om Mahadeva  
Principal  
Bajaj College of Science, Wardha**

**Dr. Mrs. S. S. Khandare  
Head, Department of Microbiology,  
Co-ordinator, MSU-RTM Nagpur  
University, Nagpur Chapter**

**Dr. U. A. Malode-Bidwai  
Co-ordinator, Department of Biotechnology,  
Prof. Incharge Microbiology-Biotechnology Society Student Unit, BCS, Wardha**

**"Nutritional Immunology & its Possible  
Role in COVID-19 Like Infections"  
10<sup>th</sup> January 2022**

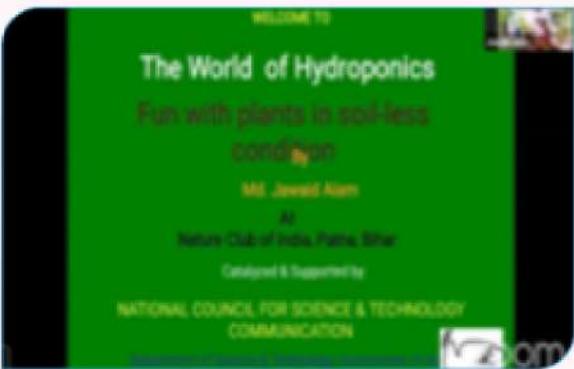
**Welcome You**

Department of Microbiology and Biotechnology in collaboration with Microbiologists Society India Organized Microbiology - Biotechnology Society Student Unit Inauguration and Guest Lecture on “Next-generation Sequencing : A vital tool in Disease Diagnosis and Pandemic Management” on 1st February 2022.



Miss. Bhargavi Deshpande from Dept. of Biotechnology participated in Online University Level Intercollegiate Speech Competition on Topic: **“Swami Vivekanand- Youth Inspiration”** on 16<sup>th</sup> April 2022 organized by Student Council of Randhirsingh Bhadorya Mahavidyalaya, Umred

# Botany Department



Talk on "World of Hydroponics" by Dr. Jawaid Alam, National resource Person (NCSTC), Department of Science & Technology Govt. of India



Lecture taken on "Medicinal Plant Diversity & its Conservation" by Dr. Sanjay V. Satpute Prof. & Head, Dept. of Botany Mahatma Fule Mahavidyalaya, Warud, Dist. Amravati.

A slide titled 'Meaning of Entrepreneurship' featuring a portrait of Ms. Trupti Dhakate. The text discusses entrepreneurship as the key to innovation, productivity and effective competition, and the ability to identify opportunities and turn them into profitable ventures.

Webinar on "Entrepreneurship" taken by Ms. Trupti Dhakate Founder, Quality Mushroom Farm, Pune

A slide titled 'Program Selection' for MS and Ph.D. programmes. It lists various application steps: Age limit, Ph.D duration (4-6 years), Course work &amp; dissertation, Qualifier Exam, Proposal Defense, Internships, and Grants Award Fellowship. It also includes links for Research area, List of universities, CV, Network &amp; Social platforms, and Grant Award Fellowship.

Dr. Shalaka Shinde Senior Scientist, New Product Development. Lead, Oil Dri Corporation of USA, United States guided on topic "Road to MS and Ph.D. programme in USA: Comprehensive steps"



Workshop on Herbs and Herbal Products under the guidance of Dr. Pradeep Saudagr, Asst. Prof., Arts, Science & Commerce college, Chopda, Dist. Jalgaon



Study Tour at Kalikappi Forest of Arvi Tehsil

## Botany Department



Students from Bharti Science College, Arni, Yavatmal visited to the  
“Tissue Culture laboratory”



Mr. Mohan Kapse presenting research poster in National conference  
organized by Department of life science, Dada Ramchand Bakru  
Sindhu Mahavidyalaya, Nagpur



Miss. Teena Uike and Miss. Divyani Dadmal explaining the research poster in National  
conference organized by Department of life science, Dada Ramchand Bakru Sindhu Mahavidyalaya, Nagpur



Miss. Yogini Wairagade and Miss. Pooja Thak from M.Sc. II had participated in the debate  
competition on the occasion of “International Women's day” on 8<sup>th</sup> March.

# Excellence in Sports

## National Championship.



**KU. SANSKRUTI DATEY**

Ball Badminton Women Team for All India University Tournament at Chengalpattu.  
(18/02/2022 to 22/02/2022).



**KU. PURVA PANDAVKAR**

Ball Badminton Women Team for All India University Tournament at Chengalpattu.  
(18/02/2022 to 22/02/2022)



**ROSHAN CHICHPANE**

Ball Badminton Men Team for All India University Tournament at Chengalpattu.  
(18/02/2022 to 22/02/2022).



**KU. SAKSHI TAKRE**

Handball Women Team for West Zone Inter University Tournament at Jaipur (Rajasthan)  
(08/03/2022 to 12/03/2022).



**VEDANT GHODMARE**

Handball Men Team for West Zone Inter University Tournament at Jaipur (Rajasthan)  
(08/03/2022 to 12/03/2022).



**VIJAYSINGH TOMAR**

Sepak Takraw Men Team for All India Inter University Tournament at Bareilly (22 to 26 Mar 2022)



**LEKHANSHU LADAKE**

Sepak Takraw Men Team for All India Inter University Tournament at Bareilly (22 to 26 Mar 2022)



**SOURABH KOSULKAR**

Sepak Takraw Men Team for All India Inter University Tournament at Bareilly (22 to 26 Mar 2022)

## Excellence in Sports

### National Championship.



**KU. JHAVERIA QURESHI**

Sepak Takraw Women Team for All India Inter University Tournament at Bareilly (22 to 26 Mar 2022)



**KU. SHIVANI SHRIWAS**

Sepak Takraw Women Team for All India Inter University Tournament at Bareilly (22 to 26 Mar 2022)



**SUSHANT MENDHE**

Softball MenTeam for All India University Tournament at Guntur Secured Bronze Medal (24 to 30 March 2022)



**CHETAN BOTKULE**

Softball MenTeam for All India University Tournament at Guntur Secured Bronze Medal (24 to 30 March 2022)



**VICKY BANSOD**

Softball MenTeam for All India University Tournament at Guntur Secured Bronze Medal (24 to 30 March 2022)

## National Cadet Corps (NCC)



NCC Office visit 21 MAH BN NCC, Wardha Commanding Officer Col D. V. Bhaskar and PI Staff



Tree Plantation



Prepare effective e-Poster and Abstract by Dr. Kunal A. Kale



Cadet SUO Jagdish Kadu



Principal Dr. Om Mahodaya visit to NCC Office



Lucky Ali , Achieved the prestigious position as an officer in Indian Army