



INSTITUTIONAL ANNUAL REPORT: 2020-21

DHARAMPETH EDUCATION SOCIETY'S DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE, NAGPUR

VISION:

To develop talent through quality and affordable education.

To produce **thriving, determined** and vibrant population of youngsters well equipped to move into the knowledge society.

To prepare students for wide spectrum of positions and profits in various fields.

MISSION:

To nurture the obvious and identify the unseen and undiscovered talents of the students so as to turn them towards the success path.

To give more than the curriculum so as to enrich the academic experience of the learners.

To provide an ambience which will help the students to keep their focus on studies and build relationship with their peers.

AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR

ADDRESS & CONTACT DETAILS:

North Ambazari Road, Near Ambazari Lake, Nagpur- 440033 (MS), India; Tel.: +91 712- 2241372, 2241490

WEBLINKS:

www.dharampethscience.com

principal_dsc@rediffmail.com

EDUCATION:

DEGREE COURSES:

B. Sc. Science (Physics, Maths, Chemistry, Statistics, Electronics, Computer Sciences, Languages)

B. Sc. Science (Chemistry, Botany, Zoology, Microbiology)

B. Sc. Science (Home Science)

CERTIFICATE COURSES:

Bioinformatics (COC)

IIT Spoken Tutorials (Seven Certificate Courses)

Life-long learning & Extension, RTM Nagpur University, Nagpur's under Jeewan Shikshan Abhiyan (Fourteen Short-term Certificate Courses)

POST GRADUATE COURSE:

M. Sc. Mathematics

LEADERSHIP:

DR. AKHILESH A. PESHWE, Principal

PROF. PITAMBAR T. HUMANE, IQAC Co-ordinator

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Dharampeth Education Society's
DHARAMPETH M. P. DEO MEMORIAL SCIENCE COLLEGE,
NAGPUR
Institutional Annual Report: 2020-21

❖ **About the College:**

Dharampeth M. P. Deo Memorial Science College, Nagpur, established in 1968 is a generic name, for 'Excellence in Education'. The educational institute has had the rich heritage and has witnessed a steady progress since its inception.

The college is situated away from the hustle and bustle of the city against the backdrop of a beautiful landscape blanketed in green 'Ambazari Lake'. The college campus offers a peaceful & serene atmosphere conducive to study.

The institute is spread over a large expanse of land with beautiful natural atmosphere. It has exceptional infrastructural facilities ranging from congenial ambience of premises to well-equipped laboratories, classrooms, gymnasium, etc.

The college is blessed with learned and committed teaching staff who not only strive hard to evolve and initiate innovative approaches to share knowledge and expertise in various fields of higher education but also kindle creativity and innovations in the students.

The college is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and comes under the purview of 2f/12B of UGC Act 1956.

The college is also reaccredited by NAAC and awarded 'A' grade with CGPA 3.01.

❖ **Courses Offered:**

1. Grant in Aid Courses (UG/PG)				
Sr. No.	Name of Course	UG	PG	Pattern
i.	Physics	✓	-	Semester
ii.	Mathematics	✓	-	Semester
iii.	Chemistry	✓	-	Semester
iv.	Statistics	✓	-	Semester
v.	Electronics	✓	-	Semester
vi.	Botany	✓	-	Semester
vii.	Zoology	✓	-	Semester
viii.	Microbiology	✓	-	Semester
ix.	English/Marathi/Hindi, Sansk.	✓	-	Semester
x.	Home Science	✓	-	Semester

2. Self-Financing Courses (UG/PG)				
Sr. No.	Name of Course	UG	PG	Pattern
i.	Computer Science	✓	-	Semester
ii.	Mathematics	-	✓	Semester & CBCS

3. Self-Financing Courses (Certificate/ Diploma)				
Sr. No.	Name of Course	Certificate	Diploma	Affiliation
i.	Bioinformatics (COC)	✓	-	UGC's COC
ii.	Introduction to Computers	✓	-	IIT Bombay
iii.	C and CPP	✓	-	IIT Bombay
iv.	Arduinio	✓	-	IIT Bombay
v.	Latex	✓	-	IIT Bombay
vi.	Inkscape	✓	-	IIT Bombay
vii.	Libreoffice Suit	✓	-	IIT Bombay
viii.	RDBMS	✓	-	IIT Bombay
ix.	Communication Skills and Personality Development	✓	-	RTMNU, Nagpur
x.	Vermiculturing and Vermicomposting	✓	-	RTMNU, Nagpur
xi.	Basic Computer Skills	✓	-	RTMNU, Nagpur
xii.	Vedic Maths	✓	-	RTMNU, Nagpur
xiii.	Latex	✓	-	RTMNU, Nagpur
xiv.	Basics of Jewellery Design and Making	✓	-	RTMNU, Nagpur
xv.	Fresh Water Fish Culture	✓	-	RTMNU, Nagpur
xvi.	Public Health & Nutrition	✓	-	RTMNU, Nagpur
xvii.	Skill Development for Competitive Exams.	✓	-	RTMNU, Nagpur
xviii.	Excel 'Zero to Hero'	✓	-	RTMNU, Nagpur
xix.	R-Console Software	✓	-	RTMNU, Nagpur
xx.	Digital Marketing	✓	-	RTMNU, Nagpur
xxi.	Full Stack Developer	✓	-	RTMNU, Nagpur
xxii.	Communication Skills	✓	-	RTMNU, Nagpur

ACHIEVEMENTS AND AWARDS

❖ Students' Achievements:

- ✚ **Nancy Jaisinghania** Stood **6th in Order of Merit** in the B. Sc. (H. Sc.) RTMNU Summer 2021 Examinations.
- ✚ **Nafisa Saifee** from Department of Home Science, stood Sixth in order of Merit as declared by RTM Nagpur University in summer 2020 examination.
- ✚ **Prachi Pardhi** of Microbiology dept. has stood 4th (top12 entries out of 150) in Drawing Competition organised at National level jointly by Microbiologist Society of India and Crescent Institute of Science and Technology, Chennai.
- ✚ The Second Prize of Rotary Youth Leadership Awards was clinched by **Shardul Mohril** and 3rd prize was bagged by Ms. Prachi Umredkar of Rotaract Club of Dharampeth M. P. Deo Memorial Science College, Nagpur
- ✚ **Janhavi Kadu**, student of B Sc. H. Sc. I year is promoted in the field of Sports. She is undergoing training programme for selection trials for National team.
- ✚ **Prachi Pardhi** of B. Sc Final year brought laurels to the college by participating in number of Co-curricular activities. Secured **First** place in an online **National-level** poster competition organized by Punyashlok Ahilyadevi Holkar Solapur University, Solapur (On Occasion of World Environment Day), on climate change and global warming. She received an E- Certificate and Cash prize of Rs. 1111.00/- (05/06/2020). Won **First** place in an online **Intercollegiate-level** poster competition organized by Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur (On the Occasion of World Zoonoses Day). She received an E- Certificate and Cash prize of Rs.500.00/- (11/07/2020). Won **Consolation** prize in an online **National-level** poster competition organized by PG Department of Biotechnology Lyallpur Khalsa College, Jalandar, Punjab, on Art in the time of Corona. She received an E- **Certificate and the trophy. (30/09/2020)**. Won **Best portrait award** in an online **International-level** pencil sketch competition organized by Microbiologist Society of India and School of life science, BSACIST, Chennai. She received an E- Certificate and the **trophy. (25/11/2020)**. Secured **First** place in an online digital poster competition Organized by our college Dharampeth M P Deo Memorial Science College, Nagpur, on Life during Covid-19 pandemic times. She received an E-Certificate. (15/02/2021). Secured **Second** place in an online **Intercollegiate-level** poster competition organized by Sevadal Mahila

Mahavidyalaya on the occasion of National Science Day. She received a Certificate and the **trophy**. (28/02/2021). Won **Best poster award** in an 20th **National level** Micro-Bio-Canvas Organized by Department of Microbiology, Government institute of Science, Aurangabad on Virus: Bad news Wrapped up in protein. She received an E-Certificate. (05/03/2021)

- ✚ **Prachi Pardhi** clinched First Prize and **Divya Puri** Bagged Second Prize in Digital Poster Category and **Divya Chauhan & Madhu Bisen** clinched First & second prize respectively in Handmade Poster Category organized by Department of Home Science & Microbiology.
- ✚ **Nandini Hadge:** Won 3rd place in **International** Microbiology Olympiad organized by Microbiologist society, India. Jharkhand unit in association with Micro-Olympiad committee in collaboration with Dr. Microbiologist on 15th September, 2021. She received an E-Certificate.
- ✚ **Prachi Pardhi** received Best Student Award 2020-21 by Microbiologist Society of India (MSI).
- ✚ **Sanchita Puntambekar** of Sem.-IV was awarded- Best Rotaractor Female award.
- ✚ **Tejal Mankar** bagged third prize in Intercollegiate Greeting Card Making Competition organised by the college on the occasion of International Women's Day.
- ✚ **Shardul Moharil**, as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.
- ✚ **Tanuja Kherdekar**, as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.
- ✚ **Monika Borikar**, as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.
- ✚ **Aanchal Yadav**, as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.

✚ **Shardul Moharil, Tanuja Kherdekar, Monika Borikar and Aachal Yadav** received Recognition Award by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India

❖ **Teacher's & Institute's Achievements:**

✚ The institution was recognized and appreciated by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education GOVT OF INDIA. The principal of the institutions **Dr. Ahilesh Peshwe & coordinator of the programme Dr. Mrs. Shraddha Deshpande** were also specially **recognized and appreciated** for their contribution to the Beat Covid Campaign during the most menacing second cycle of COVID in Nagpur.

✚ **Principal Dr. Akhilesh Peshwe: Fourth** Doctoral Student **Mrs. Bhakti Natoo** was awarded Ph.D. under the supervision of Dr. Akhilesh Peshwe vide Notification RTMNU /Ph.D (Cell)/ 23/1904 Dated 18/05/2021

✚ **Prof. Mrs. Seema Ubale:** Two students awarded with Ph.D. degree

- 1) **Ms. S. M. Bansod**, Vide Notification No. RTMNU/Ph.D. (Cell)/16/1273 dated 04th February 2021.
- 2) **Mrs. S.V. Joshi**, Vide Notification No. RTMNU/Ph.D. (Cell)/23/1904 dated 18th May 2021.

✚ **Mrs. Snehal Narale** Awarded Ph.D. Degree in the subject Computer Science Vide Notification No. SGBAU/1/2021 on dated 6/2/2021, The topic of the research was ***“Design of Efficient Real Time Ubiquitous Cloud Computing Architecture”***.

✚ Appreciation Letter Received from IIT Spoken Tutorial, Bombay (**NME, ICT GOI sanctioned**)

✚ Rotaract Club of College received DRR Citation in 2020-21 for the year 2019-20.

✚ The Rotaract Club of the College also received Certification of appreciation for our contribution in dealing with environmental issues with great responsibility.

✚ Dharampeth M. P. Deo Memorial Science College clinched 3rd prize in Street Play Competition organized by NGO, JANAAKROSH on 31st January 2021. Students performed Street play on Road Safety Awareness Rules.

✚ Rotary Citation by Rotary International to Rotaract Club Members.

- ✚ Appreciation Certificate for Rotaract Club Activities with special reference to service during Covid-19 pandemic to Rotaract Club Members.

4. Number of Books Published / Edited/ Chapter/s in Books during 2020-21					
Sr. No.	Name of Teacher / Author/s	Title of book	Name of Publication	Year of Publication	ISBN No.
i.	Dr. Akhilesh Peshwe	Role of Native Language in Reversing Under-Achievement: Learning English as a Second Language	Dattsons	2020	ISBN-10: 8171921876; ISBN-13: 978-8171921874
ii.	Dr. Pitambar Humane	Current Updates in Life Sciences	Pandit Jawaharlal Nehru Study Center, Shri Shivaji College of Arts, Commerce and Science, Akola (MS) India A Na	2020	978-81-923621-82
iii.	Dr. Mrs. Vaishali Meshram	A Text Book of Chemistry B. Sc Sem.-I	Himalaya Publishing House	2020	ISO 9001:2015 certified
iv.	Dr. Akhilesh Peshwe	Mysticism in Kathleen Raine	Copal Publishing Group	2021	ISBN-10 – 9383419954; ISBN – 13 - 978-9383419951
v.	Dr. Mrs. Varsha Rangari	Fundamental of Digital Electronics	Central Techno Publications	2021	ISBN-978-81-950067-6-2
vi.	Dr. Prashant Ambekar	Chemical methods for processing nanomaterials	CRC press Taylor and Francis Group	2021	9780367085889
vii.	Dr. Akhilesh Peshwe	Empowering Minds	Raghav Publishers and Distributors	2020-2021	ISBN:978-93-83132-98-0

viii.	Dr. Akhilesh Peshwe & Dr. Mrs. Shraddha Deshpande	Pearls of Wisdom	Raghav Publishers and Distributors	2020-2021	ISBN: 978-93-83132- 99-7
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5. Number of Research Papers Published during 2020-21					
Sr. No.	Name of Teacher / Author/s	Title of Research Paper	Name of Journal	Year of Publication	ISSN No.
i.	N. P. Gaikwad	LRS Bianchi Type-II Bulk Viscous String Cosmological Model in Barber's Second Self-Creation Theory.	Vidyabharati International Interdisciplinary Research Journal.	2020	ISSN 2319-4979
ii.	N. P. Gaikwad	Bulk Viscous Bianchi Type-I Barotropic Fluid	Adv. Math. Sci. J.	2021	ISSN: 1857-8365 (printed); 1857-8438 (electronic)
iii.	Dr. Mrs. A. S. Kulkarni	Antibiotic Resilience Pattern and Centrimide induced ultrastructural changes Multidrug Resistance S. aureus	Journal of Critical Review	2021	ISSN: 2394-5125
iv.	Prof P. T. Humane	Therapeutic Efficacy of Mimosa Pudica - Aegle Marmelos formulation on Diabetes Mellitus	International Journal of Research in Pharmaceutical Sciences	2020	ISSN: 0975-7538

v.	Prof. P. T. Humane	Statistical analysis of Ethnobotanically important flora of Bhandara District (MS), India	International Journal of Life Sciences	2020	ISSN: 2320-7817(p) 2320-964X (o)
vi.	Dr. Mrs. Kirti Paturkar	Comparative study of vermi-cast generated from flower waste and leaf waste	Essence international journal of rehabilitation and conservation	2020	9756272
vii.	Dr. Mrs. Vaishali Meshram	Application of Phyco-remediation technique in the treatment of Textile Effluent to reduce pollution Load	International Journal of research and Analytical reviews (IJRAR)	2020	2349-5138,
viii.	Dr. Mrs. Vaishali Meshram	Assessment of removal of TDS from Synthetic water through the process of Phyco-remediation	International Journal of Creative research Thoughts (IJCRT)	2020	2320-2882
ix.	Dr. Mrs. Vaishali Meshram	Study of Phyco-remediation technique for removal of Total Dissolved solids	International Journal of Creative research Thoughts (IJCRT) ,	2020	2320-2882,
x.	Dr. Mrs. Vaishali Meshram	Climate Smart Agriculture for Reduction and Mitigation of green House Gas Emission in the treatment of Textile Effluent to reduce pollution load	International Journal of Grid and Distributed Computing.	2020	4.2005-4262
xi.	Dr. Mrs. Varsha Rangari	Photoluminescence study of Ce ³⁺ activated blue emitting Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ lamp phosphors.	Journal of Physics: Conference Series.	2020	ISSN 2319-4979

xii.	Dr. Mrs. Varsha Rangari	Pali lexicography using lexonomy.	Journal of Physics: Conference Series.	2021	ISSN: 1857-8365 (printed); 1857-8438 (electronic)
xiii.	Dr. Mrs. Varsha Rangari	Synthesis and Luminescence Properties of LaB3O6 Doped with Eu3+, Dy3+ and Tb3+	International Journal of Scientific Research in Science and Technology	2021	ISSN: 2394-5125
xiv.	Dr. Mrs. Varsha Rangari	LEDs Benefits and Challenges in Road Lighting	International Journal of Scientific Research in Science and Technology.	2020	ISSN: 0975-7538
xv.	Dr. Mrs. Varsha Rangari	Zn-quinoline Metal Organic Phosphor for PLLCD and OLED Applications	International Journal of Scientific Research in Science and Technology	2020	ISSN: 2320-7817(p) 2320-964X (o)
xvi.	Dr. Mrs. Snehal Narale	Issues of Mobility in Cloud Computing Architecture:A Review	Journal of Emerging Technologies and Innovative Research (JETIR)	2020	9756272
xvii.	Prof. Mrs. Seema Ubale	‘Study of electrical resistivity of fly ash composite’, Swati Joshi, S.K.Ubale, S.J.Dhoble	Journal of Emerging Technologies and Innovative Research (JETIR)	2020	(ISSN-2349-5162) 1050 – 1058
xviii.	Prof. Mrs. Seema Ubale	‘Fly ash – A future material’	International Journal for Environmental Rehabilitation and Conservation, Essence	2020	(ISSN: 0975-6272) 400-403,

6. MoUs / Collaborations			
Sr. No.	Name of the institution/ industry/ corporate house with whom MoU is signed	Duration	List the actual activities under each MOU and web links year-wise
i.	Minex Metallurgical Company Limited Mumbai, India-400069	5 years	Collaborative research, consultation to teachers and testing of research samples etc.

7. Activities Organized during 2020-21				
Sr. No.	Name of Department / Committee	Name of the Activity	Date of Activity	Guest Speaker if any
1.	Value Addition Committee	International Yoga Day	21-06-2020	Shri. Rambhau Khandwe, Janardhan Swami Yogabhaysi Mandal, Nagpur
2.	IQAC Initiative	National Seminar & Interactive Session on “Artificial Intelligence & Cyber Security: New insights for Innovation and start-up ventures organized by Vidarbha Industries Association, Vijnan Bharti & Raman Science Centre, Nagpur (Under Project NAVIN)	21-06-2020	Shri. Upendra Mardikar* Chief Security Officer Snap Finances USA
3.	Training Placement and Career Guidance Cell	E-recruitment Drive in collaboration with HCL Technologies for the students of B. Sc- I (2019-20).	25-06-2020	
4.	Training and Placement and Career Guidance Cell	Webinar on “Career opportunities in Paramedics”	06-07-2020	Mr. Sameer Joshi, Industry Expert, Social Entrepreneur and Chairman Transcender Services Pvt. Ltd.
5.	Training and Placement and Career Guidance Cell	Personality Development Workshop on “Positive attitude and leadership skills”	07-07-2020	Dr. Kartik Pannikar, Associate Professor, J. M. Patel College, Bhandara

6.	Training and Placement and Career Guidance Cell	Personality Development Workshop on “Team Building”	08-07-2020	Dr. Pravin Joshi, Director, Prerna College of Commerce
7.	Training and Placement and Career Guidance Cell	Personality Development Workshop on “Goal Setting”	09-07-2020	Dr. Savita Deogirkar
8.	IQAC Initiative	Two Days Faculty Development Programme on Innovations & IPR organised by DHARAMPETH M.P.DEO MEMORIAL SCIENCE COLLEGE, NAGPUR, in association with three colleges in collaboration with Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur	20 & 21-07-2020	Mrs. Pooja Maulikar, Examiner of patents and design, RGNIIPM, Nagpur Mr. Pankaj Borkar, Dy controller of patents and design, RGNIIPM, Nagpur
9.	Botany	Five Days National Workshop on CSIR-UGC-NET-JRF/LS Preparation in Life Sciences organised in association with Bhavan’s College Andheri West Mumbai Shri Shivaji Science College, Amravati Shri Shivaji College of Arts, Comm & Science College, Akola	21 to 25-07-2020	More than 20 eminent Resource Person
10.	Training and Placement and Career Guidance Cell	Aptitude Test	27-07-2020	Mr. Rahul Vaidya
11.	Training and Placement and Career Guidance Cell	Aptitude Test	04-08-2020	Mr. Rahul Vaidya
12.	NSS	TREE PLANTATION	3 rd and 5 th -08-2020	
13.	Rotract Club	Event on Rakshabandhan “Rakhi for Rakshak”	05-08-2020	Rotract Club
14.	Rotract Club	Installation of Rotract Club	05-08-2020	Rtn. Mr. Nishikant Kashikar, Dr. Pratiksha Mayee, Mr. Mohan Pande, Mr. Abhishek Goyal

				Mr. Aashish Sachani.
15.	Home Science	World Breastfeeding Week 2020: A webinar on 'Special care of Breastfeeding Mother and Baby during COVID-19 Pandemic' organised in collaboration with Nutrition Society of India, Nagpur Chapter	07-08-2020	Ms. Shalini Kotamwar
16.	Value Addition Committee	To celebrate Samjik Janiw Diwas, Foundation Day of Dharampeth Education Society: Webinar on "Energy Conservation in Day to Day Life" organised in association with PCAR	07-08-2020	Mr. Pramod Nichat, Retd. AGM, Ashok Leyland External Faculty to PCAR Mr Narayan Jadi, Additional Director, Vidarbha Region, PCAR
17.	National Service Scheme (NSS)	In the memory of Shri. Vinayakrao Pathak Birth Anniversary: Blood Donation Camp	08-08-2020	Hedgewar Blood Bank & in the presence Shri. Mangesh Phathak
18.	Training and Placement and Career Guidance Cell	Aptitude Test	11-08-2020	Mr. Rahul Vaidya
19.	College	74 th Independence Day Celebration & Tree plantation program	15-08-2020	Mr. Atul Moghe
20.	Rotract Club	Tree Plantation	15-08-2020	Mr. Manish Bagalkote, Mr. Anant Shanae
21.	Training and Placement and Career Guidance Cell	Youtube on IBPS 2020 Exam Information	27-08-2020	Mr. Rahul Vaidya
22.	Life Long Learning and Extension	Webinar on Gender Sensitization.	08-09-2020	Chief Guest: - Dr. Saroj Aaglawe,
23.	Value Addition Committee	Mahatma Gandhi Jayanti Celebration	02-10-2020	Prerecorded lecture by Dr. Ravindra Joshiji and online Lecture by Shri. Kumarji Shastri
24.	Sports Department	National Webinar on "Stress Management Strategies for competitions"	05-10-2020	Dr. Anil Kharwade, Former Principal, IDCPE,

		In collaboration with Kreedha Bharti Vidarbha Prant, Nagpur District Amateur Association, IQAC		Member Board of Management LNIPE, Deemed Uni, Gwalior .Dr. Ratani M. Thakur, Principal, Orient College of Education Sanpada, Mumbai
25.	Computer Science	Workshop on “Writing Scientific Research Article/Paper”	13-10-2020	Dr. Mrs. S. A. Narale
26.	Rotract Club	Photography Contest: SHUTTER UP	22-10-2020	Judges: Mr. Manish Bagalkote Mr Anant Sahane
27.	One week Induction program as per UGC Guidelines (5 th Nov to 11 th Nov 2021)	Principal Address & Departmental Interaction	05-11-2020	Dr. Akhilesh Peshwe
28.		Induction Program [NSS]		Dr. P. T. Humane
29.		Induction Program [NCC]		Dr. P. W. Ambekar
30.		Induction Program [Life Long Learning]		Dr. V. P. Meshram
31.		Induction Program [Sports]		Dr. R. Kalode
32.		Guest Lecture on Career Opportunities after B.Sc	06-11-2020	Mr.Ashish Thakur
33.		Induction Program [Mentor Mentee Information]		DR. P. W. Ambekar
34.		Induction Program [College Magazine Asmita]		Mrs. R. Kulat
35.		Grievance Redressal Cell		Dr. V. V. Rangari
36.		Cell against Sexual Harassment		Mrs. M. M. Deshpande
37.		Women's Cell		Dr. S. A. Deshpande
38.		Rotract Club of DMPDMSC	07-11-2020	Dr. S. A. Deshpande
39.		Certificate Courses, Training Placement and Career Guidance Cell		Dr. S. A. Deshpande
40.		Creative Arts and culture: Drawing: Anokhi Diwali of 2020 Photography/Video/Poster/Rangoli/Cover page		

41.		Cultural and Extracurricular Activities Committee (Best Student) Lecture on Personality Development & Lecture on Students Scholarship	09-11-2020	Dr. S. A. Deshpande
42.		Creative Arts and culture: - Debate: Online education is beneficial or not? And Extempore		
43.		Introduction of IIT Spoken Tutorial Course	10-11-2020	Dr.S. A. Narale
44.		Introduction of Bioinformatics Course		Dr. A. S. Kulkarni
45.		Introduction of Gardening Course		Dr. P. T. Humane
46.		Creative Arts and culture: - My Innovative Idea: Singing/Dancing/mime/One act Play/ Poetry Recitation: Women Empowerment?		
47.		Introduction to Plagiarisms	11-11-2020	Dr. V. P. Meshram
48.		Introduction to Copyright		Dr. V. R. Rangari
49.		Introduction to Patent		Dr. P. W. Ambekar
50.		Interaction with Alumni		
51.		Science related innovative ideas /Creative Arts and culture: -Problem finding and it's probable solution/The New Normal: Article Writing/Slogan /Poetry/Story Writing /Scientific Writing/Drama		
52.	English	Bridge Course in English (Preposition)	24-11-2020 to 30-11-2020	
53.	Computer Science	IIT Spoken Tutorial Training Program	21-11-2020	Dr. Mrs. S. A. Narale
54.	Value Addition Committee	Guest Lecture and Quiz competition on "Fundamentals Rights and Duties" to celebrate Constitution Day.	26-11-2020	Shri. E. Z. Khobragade Retd. IAS Officer
55.	Training & Placement Cell & Competitive Exam Cell 20-21	A Webinar on Staff Selection Commission CHSL 2020 in collaboration with Gadget: The Career Tool	27-11-2020	Mr. Rahul Vaidya, Director Gadget
56.	Value Addition Committee	World Disability Day (Vishawa Divyang Diwas): Felicitation of Divyang staff of the college.	03-12-2020	
57.	Computer Science	Lecture on "IIT spoken Tutorial Portal and Registration"	06-12-2020	

58.	Computer Science	A lecture on "IIT spoken Tutorial Online Exam	09-12-2020	Dr. Mrs. S. A. Narale
59.	Value Addition Committee	Guest Lecture to celebrate National Minorities Rights Day	18-12-2020	Dr. Neehal Sheikh, Santaji Mahavidyalaya, Nagpur
60.	Computer Science	A Webinar on Trends and Opportunities in Cloud Technology and Information Security in association with Department of Robotics and Cloud Technology, RTMNU	22-12-2020	Mr. Anil Tatode, Training Officer, Department of Robotics and Cloud Technology, RTMNU
61.	IQAC Initiative	4 days National Seminar on "Ferroelectrics and Dielectrics 2021", organized by Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University in Collaboration with Dharampeth M. P. Deo Memorial Science College, Nagpur	10 to 13-01-2021	Inaugurator: - Hon. Vice Chancellor of RTMNU, Nagpur, Dr. S. G. Chaudhari sir Key Note Speaker: - Dr. R Ramesh, Professor, Dept of Materials Science and Engineering, Dept of Physics, Berkeley Research University of California, USA
62.	Microbiology	Felicitation of Corona warriors	17-01-2021	Dr. Krishna Khairnar, Sr. Scientist, NEERI
63.	Training & Placement Cell & Competitive Exam Cell 20-21	Guest Lecture on "Certificate courses offered for operation technique and dialysis technique": Skill Development Program in Healthcare: Government Scholarships	22-01-2021	Mr. Sameer Joshi, Director, i-Transform, Paramedic.
64.	Value Addition Committee	Guest Lecture to celebrate Parakram Diwas	23-01-2021	Shri. Atul Moghe Sir, Head MCVC Department, Dharampeth M. P. Deo Memorial Science College, Nagpur
65.	Home Science	Seminar on "Role of dieticians in corporate world"	25-01-2021	Dr Renuka Mainde
66.	College	72 nd Celebration of Republic Day & Prize Distribution Program	26-01-2021	Dr. Kumar Shastri

67.	Rotract Club	Flag Collection	26-01-2021	
68.	NSS	National Voters Day: College students performed Street play on "Chalo Kare Matadan", "Importance of voting" guided by Mrs. Priyanka Ganuarkar at Collector Office, Nagpur	25-01-2021	Deputy District Election Officer, Mrs Minal Kalaskar as Chief Guest, Miss Jyoti Amge, World's shortest lady was the guest of honour.
69.	Value Addition Committee	Prarakarm Divas: - To commemorate the birth anniversary of Late. Shri. Subhash Chandra Bose	28-01-2021	Shri. Atul Moghe Sir, Head MCVC department, Dharampeth M. P. Deo Memorial Science College, Nagpur.
70.	Microbiology and Home Science	Online Poster Competition on "Life during Covid-19 Pandemic Times"	28-01-2021	Judge: Dr. Sanjeev Patankar, President, Microbiology Society of India
71.	Rotract Club	Rotary Youth Leadership Awards 20-21 organised in association with Rotary Club of Nagpur Downtown at Pench	30 to 31-01-2021	MLA, Vikas Thakre, Mr. Nitin Gupta, Director, NATT and Other esteemed Members
72.	Value Addition Committee	Street Play Competition organized by Janakrosh on "Road Safety and Awareness"	31-01-2021	Chief Guest: -Dr. Shubhash Choudhary, Vice-Chancellor, Judge: -Mr. Kishor Iyalwar,
73.	Home Science	Online Recipe on California Walnut Recipe organized in Association with IDA, NetProFaN Supported by California Walnut Commission, Dharampeth M.P. Deo Memorial Science College, Nagpur	31-01-2021	Dr. Jaya Deshmukh
74.	Women Cell	Webinar on "Gender Sensitization"	04-02-2021	Dr. Prajкта Kaduskar. Dr. Kamlakar Devghare

75.	Training Placement and Career Guidance Cell	SANKALP Programme	07-02-2021	Mr. Sameer Joshi, Director, i-Transform, Paramedic.
76.	English	Poster Competition on “Empowering minds”	08-02-2021	
77.	Computer Science	IIT Spoken Tutorial Certificate Course Online Examination	16 to 18-02-2021	
78.	English	Needs and Wants	25-02-2021	
79..	Physics	Webinar on ‘Introduction to Drones and Career Prospects in India’ on the occasion of National Science Day	28-02-2021	Mr. Mohit Shahane
80.	Microbiology	PPT and E-Poster competition on the occasion of National Science Day	28-02-2021	Dr. Aarti Shanware, Rajiv Gandhi Biotechnology, Center Mrs. Sneha Jaiswal, Dhote Bandhu Science College, Gondia.
81.	Rotract Club	Poetry Competition: “Kavyanjali”	28-02-2021	Bhagyashree Banhatti, Dr. Ragini Joshi
82.	Physics	Online Poster Competition on the occasion of National Science Day “Future of STI (Science Technology and Innovations)	28-02-2021	
83.	Women Cell	Guest Lecture on “General Awareness on Holistic Wellness” organised in collaboration with Pratibha Shakti Vidarbha	01-03-2021	Dr. Aparna Sadachar, BHMS, CGO, Director Adhaar Homeo Clinic, Founder Member of “Sevankur”
84.	Women Cell	Intercollegiate Greeting Card Making Competition on the occasion of International Women's Day	08-03-2021	Dr. Shraddha Deshpande
85.	Women Cell	A group discussion on “gender bias in portraying women in advertisements”	08-03-2021	Dr. Shraddha Deshpande
86.	Women Cell	Guest Lecture on the occasion of International Women’s Day	08-03-2021	Honourable Prof. Mrs. Shashikala Wanjari, Vice

				Chancellor, SNDT University of Women
87.	Training Placement and Career Guidance Cell	Training program on Skill Development Session 1 at Kingsway Hospital	08-03-2021	Mr. Sameer Joshi, Director, i-Transform, Paramedic.
88.	Rotract Club	Webinar on “Employability 2030”	09-03-2021	Ms. Amisha Rumde,
89.	English	English language junction	18-03-2021	
90.	Rotract Club	A webinar on Poster Designing: DESIGN'EM organised in association with Rotaract Club of YCCE	20-03-2021	Rtr. Ms. Trushita Sonkusre
91.	Rotract Club	On the occasion of "World Water Day" an event “पामावठा” organised in collaboration with Rotaract Club of Nagpur Downtown	29-03-2021	
92.	Physics	Online Guest Lecture on “Career Opportunities after B.Sc. (Physics)”	25-04-2021	Dr. Mrs. Aarati Wazalwar, Associate Professor, Department of Physics, Dr. Ambedkar College, Nagpur
93.	English	English Literature Gateway	27-04-2021	
94.	Microbiology	Providing volunteer support to corona affected people		
95.	Rotract Club	VISUALISING VISIONS A webinar on “How to make a vision Board” was organised in collaboration with Rotaract Club of GNIET	08-05-2021	Ms. Priya Acharya
96.	Rotarct Club	Participation in NMC Volunteering Program	08-05-2021	Judge: - Mrs. Priya Acharya
97.	Rotract Club	Holding hands Membership Drive	08-05-2021	Mrs. Priya Acharya
98.	English	Critical Literacy Framing question	11-05-2021	
99.	English	Write tweet on “Unemployment in India”	18-05-2021	

100.	Training Placement & Career Guidance Cell	A webinar on “Career opportunities in public health & sanitation sector” organised in association with All India Institute of Local Self Government, Nagpur	22-05-2021	Mr.Jayant Pathak , Regional Director at All India Institute of Local Self Government – AILSG
101.	Computer Science	Digital Poster Making Activity on” Safety Major to curb the spread of Covid -19 for 3 rd wave”	15-05-2021	
102.	Computer Science	Article writing Competition on” Impact of Online Classes on Education”	28-05-2021	
103.	Rotract Club	Danapani- Feeding stray animals	30-05-2021	
104.	Microbiology	A survey on “creating awareness about Covid –19 Vaccination”	May 21-August 21	

8. Seminars / Conferences / Workshops / FDPs attended & Lectures Delivered						
Sr. No.	Name of Faculty	Designation	Department	Number of seminars / Conferences / Workshops attended	Number of FDPs Attended	Number Guest Lectures Delivered
i.	Dr. Akhilesh Peshwe	Principal	English	-	-	-
ii.	Dr. Mrs. Archana Kulkarni	Vice-Principal	Microbiology	06	-	-
iii.	Prof. Ratnakar Lanjewar	Professor	Chemistry	-	01	-
iv.	Mrs. Ranjana Kulat	Associate Professor	Home Science	-	-	-
v.	Prof. Mrs. Seema Ubale	Professor	Physics	02	01	-
vi.	Mrs. Manju Deshpande	Associate Professor	Home Science	03	-	-
vii.	Dr. Mrs. Vidya Kathoke	Associate Professor	Microbiology	03	01	-
viii.	Dr. Madhukar Dhongde	Associate Professor	Zoology	-	-	-
ix.	Dr. Kamlesh Moon	Associate Professor	Physics	-	-	-
x.	Dr. Pitambar Humane	Associate Professor	Botany	07	01	03
xi.	Lt. Dr. Prashant Ambekar	Assistant Professor	Physics	02	02	-
xii.	Dr. Mrs. Vaishali Meshram	Associate Professor	Chemistry	05	04	-
xiii.	Dr. Mrs. Shraddha Deshpande	Assistant professor	English	04	-	07
xiv.	Dr. Nitin Gaikwad	Assistant professor	Mathematics	03	03	-

xv.	Dr. Mrs. Varsha Rangari	Associate Professor	Electronics	01	04	-
xvi.	Dr. Mrs. Kirti Paturkar	Assistant Professor	Zoology	-	02	-
xvii.	Mrs. Snehal Narale	Associate Professor (Ad-hoc)	Computer Science	21	03	-
xviii.	Mr. Roshan Thakre	Associate Professor (Ad-hoc)	Mathematics	01	-	-

9a. Result Analysis 2020-21										
WINTER-2020										
Sr. No.	Class	Number of students appeared			Passed	Failed	I Division	II Division	III Division	Merit
		Male	Female	Total						
i.	B. Sc. Sem.-I	108	145	253	218	35	187	30	1	-
ii.	B. Sc. Sem.-III	113	144	257	248	11	215	33	-	-
iii.	B. Sc. Sem.-V	133	253	386	379	7	328	50	1	-
iv.	B. Sc. (H. Sc.) Sem.-I	-	18	18	17	1	15	2	-	-
v.	B. Sc. (H. Sc.) Sem.-III	-	41	41	39	2	29	10	-	-
vi.	B. Sc. (H. Sc.) Sem.-V	-	30	30	30	0	27	3	-	-
vii.	M. Sc. (Maths) Sem.-I	6	17	23	23	0	23	0	0	-
viii.	M. Sc. (Maths) Sem.-III	4	17	21	21	0	20	1	0	-
TOTAL		364	665	1030	975	56	844	129	2	-
Percentage (%)					94.57	5.43	81.86	12.51	0.19	-

9b. Result Analysis 2020-21										
SUMMER-2021										
Sr. No.	Class	Number of students appeared			Passed	Failed	I Division	II Division	III Division	Merit
		Male	Female	Total						
i.	B. Sc. Sem.-I	109	145	254	232	22	205	26	1	-
ii.	B. Sc. Sem.-III	113	144	257	252	252	5	238	14	-
iii.	B. Sc. Sem.-V	133	253	386	385	1	360	25	0	-
iv.	B. Sc. (H. Sc.) Sem.-I	-	18	18	15	3	15	0	0	-

v.	B. Sc. (H. Sc.) Sem.-III	-	41	41	41	0	41	0	0	-
vi.	B. Sc. (H. Sc.) Sem.-V	-	30	30	29	1	28	1	0	02
vii.	M. Sc. (Maths) Sem.-I	6	17	23	22	1	28	1	0	-
viii.	M. Sc. (Maths) Sem.-III	4	17	21	20	1	11	9	0	-
	TOTAL	365	665	1030	996	34	919	76	01	-
	Percentage (%)				96.70	3.30	89.22	7.38	0.1	0.19

10a. Subject-wise Result Analysis 2020-21									
B. Sc. PART-I									
Sr. No.	Subject	Semester-I				Semester-II			
		Due	Appeared	Passed	%	Due	Appeared	Passed	%
i.	Physics	118	113	101	89.38	114	111	104	93.69
ii.	Mathematics	186	185	184	99.46	185	184	183	99.46
iii.	Statistics	32	32	32	100.00	32	32	30	93.75
iv.	Electronics	37	35	34	97.14	37	35	32	91.43
v.	Com. Sci.	63	63	63	100.00	63	63	63	100.00
vi.	Chemistry	164	164	151	92.07	165	165	157	95.15
vii.	Botany	63	63	55	87.30	63	63	58	92.06
viii.	Zoology	71	71	67	94.37	71	71	68	95.77
ix.	Microbiology	58	58	55	94.83	57	57	57	100.00
x.	English	253	252	251	99.60	254	254	253	99.60
xi.	Supp. English	42	41	41	100.00	42	40	40	100.00
xii.	Marathi	85	85	85	100.00	81	81	79	97.53
xiii.	Hindi	119	113	111	98.23	119	115	115	100.00
xiv.	Sanskrit	07	07	07	100.00	07	07	07	100.00
xv.	Home Science	19	18	16	88.89	19	18	16	88.89

10b. Subject-wise Result Analysis 2020-21									
B. Sc. PART-II									
Sr. No.	Subject	Semester-III				Semester-IV			
		Due	Appeared	Passed	%	Due	Appeared	Passed	%
i.	Physics	117	113	111	98.23	117	112	111	99.10
ii.	Mathematics	176	176	173	98	176	176	174	98.8
iii.	Statistics	31	31	31	100.00	31	31	31	100.00
iv.	Electronics	33	33	33	100.00	33	33	33	100.00
v.	Com. Sci.	60	60	58	96.66	60	60	60	100.00
vi.	Chemistry	173	173	166	95.95	173	173	168	97.1
vii.	Botany	65	65	64	98.46	65	65	64	98.46
viii.	Zoology	81	81	78	96	81	81	81	100.00
ix.	Microbiology	66	66	66	100.00	66	66	66	100.00
xv.	Home Science	41	41	39	95	41	41	41	100.00

10c. Subject-wise Result Analysis 2020-21									
B. Sc. PART-III									
Sr. No.	Subject	Semester-V				Semester-VI			
		Due	Appeared	Passed	%	Due	Appeared	Passed	%
i.	Physics	187	185	183	97.86	185	185	184	99.45
ii.	Mathematics	234	232	232	100.00	234	234	232	99.15
iii.	Statistics	50	50	48	96.00	50	50	50	100.00
iv.	Electronics	52	51	51	100.00	52	51	51	100.00
v.	Com. Sci.	105	105	103	98.09	105	105	105	100.00
vi.	Chemistry	232	232	231	99.57	232	232	231	99.57
vii.	Botany	91	90	90	100.00	91	82	81	98.78
viii.	Zoology	114	114	114	100.00	114	114	113	99.12
ix.	Microbiology	81	81	81	100.00	81	81	81	100.00
xv.	Home Science	30	30	29	96.67	30	30	29	96.67

10d. Subject-wise Result Analysis 2020-21									
M. Sc. PART-I									
Sr. No.	Subject	Semester-I				Semester-II			
		Due	Appeared	Passed	%	Due	Appeared	Passed	%
i.	Mathematics	23	23	23	100.00	23	23	22	95.65
M. Sc. PART-II									
Semester-III					Semester-IV				
		21	21	21	100.00	21	21	20	95.24

DEPARTMENT OF BOTANY**Annual Report (2020-21)**

1. **Name of the department** : Botany
2. **Year of Establishment** : 1970
3. **Names of Programmes / Courses offered** : **Certificates Course/s: Nil**
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.)
UG: B. Sc.
PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Chemistry Botany Zoology (CBZ)
 - ii) Chemistry Botany Microbiology (CBM)
 - iii) Ecology and environment for B. Sc. (Home Science), Sem.-I & II
5. **Names of Certificate Courses if any:** Nil
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/ semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	-	-	-

8. Number of Teaching posts:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	04	01

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. P. T. Humane	M. Sc., Ph.D., NET	Professor	16.06.2003	18 years
2.	Ms. Rupali Deshpande	M. Sc., Ph.D.	CHB, Approved by RTMNU	2020-21	NA
3.	Mrs. Amol Pimpalshende	M. Sc., NET	CHB, Approved by RTMNU	2020-21	NA
4.	Dr. Chandrakumar Patle	M. Sc., Ph.D., SET	CHB, Approved by RTMNU	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	01	-
2.	Lab. Attendant	02	02

11. Number of activities organized: 01

- 1) Five Days National Workshop on CSIR-UGC-NET-JRF/LS Preparation in Life Sciences organized in association with Bhavan's College Andheri West Mumbai, Shri Shivaji Science College, Amravati, Shri Shivaji College of Arts, Comm & Science College, Akola

12. Infrastructural Facilities:**i) Laboratory:**

- i) Spacious & well-furnished laboratory with 25 seating capacity, well equipped with the instruments and or equipment like, laminar airflow hood, centrifuge, calorimeter, autoclave, soxhlet apparatus, plant physiology apparatus, ecology apparatus, microscopes (dissecting, monocular, binocular, compound, projector, etc.)

- ii) Mushroom cultivation room

ii) Museum:

- i) Well maintained museum with over 500 specimens, from algae, fungi,

bryophyta, pteridophyte, gymnosperms and angiosperms.

- ii) Also, it is with the seating arrangement for the students to complete their practical records and to take their lunch.
- iii) **Botanical Garden:**
 - i) Provided with variety of cultivated plants and the plants useful in UG practical in the subject.
 - ii) Also, medicinal plants and aquatic plants are cultivated for practical purpose.
- iv) **Herbarium:**
 - i) Well maintained herbarium with over 3000 plant specimens stored in pigeon hole almirah useful for the students of UG, PG with botany as one of the subjects.
 - ii) Also, it is useful in research in angiosperm taxonomy, pharmacognosy and other related plant sciences.
- v) **Library:**
 - i) The separate departmental library with over 400 books, journals, e-books, floras, thesis, etc. In addition to the departmental library.
 - ii) The library for competitive examinations contains 600 over books is also there in the department developed under UGC's scheme 'Entry in Services'
- vi) **ICT facilities:**
 - i) Computer with internet facilities, Wi-Fi, LCD Projector, etc.
 - ii) Also, used personal laptops and mobiles as ICT tools in teaching learning practices during covid-19 pandemic for online teaching.
- vii) **E-books:**
 - i) More than 125 free downloaded e-books are available with the department useful for UG, PG and even in the research as text and reference books.
- viii) **Staff rooms:**
 - i) Well-furnished and Separate seating arrangement for teaching and non-teaching staff which includes HOD Cabin, Teachers room with seating arrangement for technical staff of the department.

13. Online Teaching assistance:

- a) **Google meet:** Yes
- b) **Google forms:** Yes
- c) **Zoom platform:** Yes
- d) **Microsoft team:** Yes
- e) **YouTube channel link:** [BOTANY 4U - YouTube](#)
- f) **Number of videos / lectures available on YouTube channel:** **251**

14. Faculty Profile:

- a) **Dr. Pitambar Humane**, Associate Professor & Head of the Department
 - i) **Research Papers Published:** 03
 - 1) *“Therapeutic Efficacy of Mimosa pudica, Aegle marmelos formulation on Diabetes Mellitus”*, International Journal of Research in Pharmaceutical Sciences, **July, 2020**, Vol, -11, Issue- (III), p.n. 4089-4094; ISSN: 0975-7538 (Anitha V, Rajarajeswari, Bupesh G, Vasanth S, Tirumalai Vasan P,

Sahoo U, Pitambar Humane)

- 2) **“Statistical Analysis of Ethnobotanically important flora of Bhandara District (MS), India”**, International Journal of Life Sciences, **September 2020**, Vol.-8, Issue (3), p.n. 583-588; ISSN: 2320-7817(p) | 2320-964X (o).
- 3) **“Types and Distribution of Aroids in Bhandara District (MS), India”**, in Current Updates in Life Sciences, **December, 2020**, p.no. 745-751, ISBN: 9788192362182

ii) Books Published/ Edited: Nil

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lectures Delivered: 03

- 1) Delivered a Guest Lecture in UGC-NET Preparation Webinar, jointly organized by IQAC, Deccan College, Pune and Knowledge Centre, Bhusaval (MS) on **22nd June, 2020** on “People, Development & Environment”
- 2) Delivered a lecture as Resource Person in Third Faculty Induction Program (FDP) organized by UGC-HRDC, Dr. Harisingh Gour Sagar University, Sagar (MP) on **9th December, 2020**, on “ICT Tools in Teaching Learning: Corel Draw”
- 3) Delivered a lecture as Resource Person in Fourth Faculty Induction Program (FDP) organized by UGC-HRDC, Dr. Harisingh Gour Sagar University, Sagar (MP) on **3rd February, 2021** on “ICT Tools in Teaching Learning: Corel Draw”

v) Seminars / Conferences / Workshops attended: 07

- 1) Participated in One Day National Webinar on “Biodiversity and Environment Health Protection” on occasion of World Environment Day organized by Environment Cell of DRB Sindhu Mahavidyalaya, Nagpur on **5th June, 2020**.
- 2) Participated in International Webinar on “Impact of COVID-19 on Environment, Economy and Ethical Empowerment organized by St. Andrew’s College, Gorakhpur, Uttar Pradesh from **5th June to 6th June, 2020**.
- 3) Participated in National Seminar and Interactive Session on Artificial Intelligence & Cyber Security: New Insight for Innovation and Start-up Ventures organized by Vidarbha Industries Association, Vigyan Bharti and Raman Science Centre on **21st June, 2020**.
- 4) Participated in National Webinar “Bioprospection: Synthesis of Novel Biomolecules and their Patents” organized by Department of Botany, Jyoti Nivas College, Autonomous, Bengaluru on **1st July, 2020**.
- 5) Participated in One Day International Webinar on “Fire Ecology in Neotropical Forests and Savannah organized by PG Department of Botany and Nature Club, Shree Vidyadhi Raja NSS College, Vazhoor in Collaboration with Kerala State Biodiversity Board, Kowdiar, Thiruvananthapuram, Kerala on **9th July, 2020**.

- 6) Participated in the talk on ‘Impact of Pandemic on Human Psychology in the webinar series Sunday Spark organized by EcoR Foundation, Cochin on **2nd August, 2020.**
- 7) Participated in the Webinar on “International Code of Nomenclature (ICN) for Plants organized by Ministry of Environment, Forest and Climate Change, Govt. of India, on **6th Jan., 2021.**

vi) FDP attended: 01

- 1) Participated and successfully completed the One Week National Level Online Faculty Development Program on “G Suit & Allied Tools in Education, Teaching & E-Content Development” organized by PG Department of Computer Science & Engineering, Sant Gadge Baba Amravati University, Amravati from **26th June, to 4th July, 2020.**

vii) Awards / Recognitions received: Nil

b) Dr. Ms. Rupali Deshpande, CHB approved by RTM Nagpur University

- i) Research Papers Published: Nil**
- ii) Books Published/ Edited: Nil**
- iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil**
- iv) Guest Lectures Delivered: Nil**
- v) Seminars / Conferences / Workshops attended: Nil**
- vi) FDP attended: Nil**
- vii) Awards / Recognitions received: Nil**

c) Mr. Amol Pimpalshende, CHB approved by RTM Nagpur University

- i) Research Papers Published: Nil**
- ii) Books Published/ Edited: Nil**
- iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil**
- iv) Guest Lectures Delivered: Nil**
- v) Seminars / Conferences / Workshops attended: 03**
 - 1) Participated in Two days Interdisciplinary “**International E- Conference on Impact of COVID-19 on Various Area of Global Economy, Science, And Humanities**” Collaboratively organized by Gondwana University, Gadchiroli; Mahila Mahavidyalaya Amravati; Chintamani College of Science, Phmburna; Chintamani College of Arts and Science, Gondpipri, on **24th & 25th June 2020.**
 - 2) Participated in **One Week Online Interdisciplinary “Short Term Course on Basic of Organic Farming”** Organized by Department of Botany and IQAC, Athalye-Sapre-Pitre College (Autonomous) Devrukh Dist: Ratnagiri, on Dated **May 31 to June 6 2020.**
 - 3) Participated in Two days Interdisciplinary “**International E- Conference on Impact of COVID-19 on Various Area of Global Economy,**

Science, And Humanities” Collaboratively organized by Gondwana University, Gadchiroli; Mahila Mahavidyalaya Amravati; Chintamani College of Science, Phmburna; Chintamani College of Arts and Science, Gondpipri, on 24th & 25th June, 2020

vi) FDP attended: 01

- 1) Participated in **One Week Online Faculty Development Programme** Organized by Vinayankrao Patil Mahavifyalaya , Vijapur, Aurangabad on Dated **2 June to 7 June 2020**.

vii) Awards / Recognitions received: Nil

d) **Dr. Chandrakumar Patle**, CHB approved by RTM Nagpur University

i) **Research Papers Published:** Nil

ii) **Books Published/ Edited:** Nil

iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil

iv) **Guest Lectures Delivered:** Nil

v) **Seminars / Conferences / Workshops attended:** 01

- 1) Participated in “National Level Webinar on Entrepreneurship in Life Sciences” on **29th April 2021** organized by Department of Botany and Botanical society, Anand Niketan College, Anandwan, Warora, District – Chandrapur (Maharashtra)

vi) FDP attended: Nil

vii) Awards / Recognitions received: Nil

15. **Students Achievements if any:** Nil

16. **Student Research Projects if any:** 01

- 1) **‘To Study floristic biodiversity of angiosperms’:** The student centric project organized by Prof. Pitambar Humane, HOD, for the students. This project helps to create the interest among the students towards the subject and research in plant taxonomy too.

17. **Diversity of Students:**

i) **Total number of students enrolled:** 219

ii) **Number of Students from home state:** 218

iii) **Number of Students from other state:** 01

18. **Student strength & Result Analysis:**

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	63	63	55	87.30
B. Sc. Sem.-II	63	63	58	92.06
B. Sc. Sem.-III	65	65	64	98.00
B. Sc. Sem.-IV	65	65	64	98.40

B. Sc. Sem.-V	91	90	90	100.00
B. Sc. Sem.-VI	91	82	81	98.78

19. Student progression

Student progression	Against % enrolled
UG to PG	40-50%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	Nil
1) Campus selection	
2) Other than campus recruitment	
Entrepreneurship /Self-employment	Nil

20. Awards / Recognitions received by the students: Nil

21. Teaching methods adopted to improve student learning:

- i) Online teaching learning practices are adopted due to COVID-19 pandemic. Many tools and technique used like, google meet, google forms, zoom meet, Microsoft team and also the software like CoreDraw for preparation of diagrams and flow chart for better understanding in online teaching.
- ii) Basics of the subject were taught to the students at entry level in bridge-course
- iii) Special attention was given to slow learners.
- iv) Extra classes were engaged for the students wherever necessary
- v) Remedial classes
- vi) Class test and unit test
- vii) Internal assignments on full course paper
- viii) Revision of the syllabus at the end of session with ICT
- ix) Video lectures are made available on YouTube Channel, BOTANY 4U for UG & PG students and also for researchers & faculties in and around the globe in life sciences.

22. Participation in Institutional Social Responsibility (ISR) and Extension activities

- i) Most of the students of the department actively participates in almost all the activities organized by the institute.

23. Creativity & Innovations if any: Nil

23. SWOC analysis of the department and Future plans:

- a) **Strength:**
 - i) Qualified and experienced teaching staff
 - ii) Well maintained and rich herbarium with over 2000 plant specimens.

- iii) Separate departmental library with over 500 books.
- iv) Separate library for competitive examinations purchased under entry in services sanctioned by UGC.
- v) Well-equipped laboratory with ICT facility
- b) **Weaknesses:**
 - i) Faculty crunch because of govt policies for faculty recruitments
 - ii) Need to update the laboratory with advanced instruments / equipment as per the recent trends in research in the subject.
- c) **Opportunity:**
 - i) The students have job options available in BSI, department of forest and taxonomic research institutes, seed industry, nurseries, central research laboratories in life sciences.
 - ii) More avenues in the field of agricultural research and small-scale industries because of skill-based education in the subject.
- d) **Challenges:**
 - i) Find difficult to maintain the standard of the subject due to crunch of staff & necessary equipment in the laboratory.
 - ii) Skill-based education introduced in the subject need thorough update in laboratory instruments as per the experiments in the syllabi.
- e) **Future planning:**
 - i) To apply and undertake the major research projects and publish the research papers
 - ii) To publish the colour atlas for angiosperm plants and reference book on angiosperm taxonomy.
 - iii) To publish a flora of Bhandara district (M.S.) India
 - iv) To publish video lectures on YouTube Channel, BOTANY 4U, based on UG, PG & CSIR-UGC-NET (Life Sciences) syllabi and research in Life Sciences and also teaching learning practices, effective administration in higher education, etc.
 - v) Development of Bonsai plants in botanical garden.

DEPARTMENT OF CHEMISTRY**Annual Report (2020-21)**

1. **Name of the department** : Chemistry
2. **Year of Establishment** : 1968
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s:** Nil
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.) UG: B. Sc.
PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Chemistry Botany Zoology (CBZ)
 - ii) Chemistry Botany Microbiology (CBM)
 - iii) Chemistry Zoology Microbiology (CZM)
 - iv) Physics Chemistry Mathematics (PCM)
 - v) Basic Chemistry for B. Sc. (Home Science), Sem.-I & II
 - vi) Applied Chemistry for B. Sc (Home Science) Sem III & IV
 - vii) Nutritional Biochemistry for B. Sc (Home Science) Sem V & VI
5. **Names of Certificate Courses if any:** Nil
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/ semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc.	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	-	-	-

8. **Number of Teaching posts:**

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	09	02

9. **Teaching Faculty:**

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. R. B. Lanjewar	M. Sc., Ph.D.,	Professor & Head	01.01.1993	28 years
2.	Dr. Mrs. Vaishali P. Meshram	M. Sc., Ph.D., B. Ed	Associate Professor	06.02.2007	14 years
3.	Dr. Sandeep Bhiwagade	M. Sc., Ph.D.	CHB, Approved by RTMNU	2020-21	NA
4.	Dr. Mrudul Keskar	M. Sc., Ph.D.,	CHB, Approved by RTMNU	2020-21	NA
5.	Dr. Pranita Gawande	M. Sc., Ph D	CHB, Approved by RTMNU	2020-2021	NA
6.	Dr. Yogita Dahire	M. Sc., Ph. D	CHB, Approved by RTMNU	2020-202	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	01	01
2.	Lab. Attendant	04	02

11. Number of activities organized: Nil

12. Infrastructural Facilities:

i) Laboratory: 02

i) Two well-equipped laboratories with important instruments like conductometer, Potentiometer, pH meter, Nephelometer, Calorimeter, Spectrophotometer, well established distilled water plant etc.

ii) Library: Yes

i) Departmental Library is also available for students with 320 of Books are available. Out of them some are book are reference books, text book, and some copies Rasayan Journal of chemistry are also available.

iii) ICT facilities: Yes

- i) LCD projector used during students' seminars, during lecturers, one computer with internet connectivity and with one printer installed in the department.
 - iv) **E-books:** Nil
 - v) **Staff room:** 01
 - i) Staff rooms are well furnished with table and sufficient no of seating arrangement for departmental meeting
- 13. Online Teaching assistance:**
- a) **Google meet:** Yes
 - b) **Google forms:** Yes
 - c) **Zoom platform:** Yes
 - d) **Microsoft team:** Yes
 - e) **YouTube channel link:** Nil
 - f) **Number of videos / lectures available on YouTube channel:** NA
- 14. Faculty Profile:**
- a) **Prof. R. B. Lanjewar, Professor & Head of the Department**
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** 01
 - 1) Two-weeks Faculty development FDP organized by TLC, Ramanujan College, University Delhi, MHRDC and PMMDC May 18- to June 24th 2020
 - vii) **Awards / Recognitions received:** Nil
 - b) **Dr. Ms. Vaishali P. Mesharm, Associate Professor**
 - i) **Research Papers Published:** 04
 - 1) Paper published in International Journal of Grid and Distributed computing, Climate Smart Agriculture for Reduction and Mitigation of Green House Gas emission, Vol 13 No 1 2020.
 - 2) Paper published in International Journal of Creative research thoughts IJCRT," Assessment of removal of TDS from synthetic water through the process of Phyco-remediation " , Vol 8, issue 7 July 2020
 - 3) Paper published in International Journal of Creative research thoughts IJCRT, "Study of Phyco-remediation technique for removal of Total dissolved solids, Vol 8, issue 7, July 2020
 - 4) Paper published in International Journal of Research and Analytical Reviews (IJRAR), "Application of Phyco-remediation technique in the

treatment of Textile effluent to reduce pollution load”, Vol., 7, issue 3, July 2020

ii) Books Published/ Edited: 01

- 1) A Text Book of B. Sc Sem I Chemistry as per the new syllabus of RTM Nagpur University published by Himalaya publishing House, Nagpur

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lectures Delivered: Nil

v) Seminars / Conferences / Workshops attended: 05

- 1) Online certificate course cum Workshop of 32 hrs. on “Learner Centric Content Design Tools” Organized by Deen Dayal Upadhyay Kaushal Kendra, Sana tan Dharma College Ambala Cantt 26 August to 9th September, 2020
- 2) One day National Webinar on Role of Scientific and Technological Innovations: A war against global catastrophes Organized by Chemical society of St. Francis de Sales College, Nagpur 29th April, 2021
- 3) Three days’ workshop on Development of ICT skills for online teaching among teachers of HEs Department of Computer science & Application in Collaboration with Career guidance cell, Sanatan Dharma College, Ambala Cantt 24-26th May 2021
- 4) International webinar on Polymers and current scenario of Covid-19 Organized on digital platform by Department of Chemistry (PG) and IQAC initiative, Haribhai V. Desai College, Pune 22 May., 2021
- 5) Workshop on Learning Fundamentals of Publishing in quality Journals Organized by Sushant University, Gurugram 26th May., 2021

vi) FDP attended: 04

- 1) On week Faculty Development programme Development of Teachers e-kit and MOOCs in Four Quadrant Format of e-content on 12-20 September, 2020 organized by Guru Angad Dev Teaching Learning Centre, S. G. T. B. Khalasa College, University of Delhi under the PMMMNMT of MHRD.
- 2) Five days Faculty development programme from 30th May to 3rd June, 2020 on the topic, “Evolution from Offline to online Teaching, organized by University of Mumbai in association with YCM Open University, Mumbai Regional Centre.
- 3) One-week Faculty development FDP organized by TLC, Ramanujan College, University Delhi, MHRDC and PMMDC June 8-14, 2020
- 4) One week Faculty development Program, “Capacity Building in Drafting Proposals for Funded Research Guru Angad Dev Teaching Learning Centre, S. G. T. B. Khalasa College, University of Delhi under the PMMMNMT of MHRD

vii) Awards / Recognitions received: Nil

- c) **Dr Sandeep Bhiwagade**, CHB approved by RTM Nagpur University
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil

- d) **Dr. Mrudul Keskar**, CHB approved by RTM Nagpur University
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil

- e) **Dr. Pranita Gawande**, CHB approved by RTM Nagpur University
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil

- f) **Dr. Yogita Dahire**, CHB approved by RTM Nagpur University
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil

- 15. **Students Achievements if any:** Nil
- 16. **Student Research Projects if any:** Nil
- 17. **Diversity of Students:**
 - i) **Total number of students enrolled:** 570

ii) Number of Students from home state: 569

iii) Number of Students from other state: 01

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	165	165	157	95.15
B. Sc. Sem.-II	165	165	157	95.15
B. Sc. Sem.-III	173	173	166	95.95
B. Sc. Sem.-IV	173	173	173	95.95
B. Sc. Sem.-V	232	232	231	99.56
B. Sc. Sem.-VI	232	232	231	99.56

19. Student progression

Student progression	Against % enrolled
UG to PG	40-50%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship /Self-employment	Nil

20. Awards / Recognitions received by the students: Nil

21. Teaching methods adopted to improve student learning:

i) ICT used for Power point presentation; you tube link shared

22. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

23. Creativity & Innovations if any: Nil

23. SWOC analysis of the department and Future plans:

a) **Strength:**

i) Qualified and Experience faculty.

ii) Good number of publications in reputed international and national journals

iii) Good number of Conference attended and participated in conference in National and international online paper presentation and online workshop attended.

- iv) Good number of Ph.D. faculty
- b) **Weaknesses:**
 - i) Insufficient Industry Academia Interaction
- c) **Opportunity:**
 - i) Scope of subject Chemistry in various field like Industries, Research and development, Thermal Power station and many more.
 - ii) To start PG course in Chemistry
 - iii) To start Certificate or Diploma Courses related to chemistry.
 - iv) To increase Industry Academia interaction.
- d) **Challenges:**
 - i) To Maintain Laboratory safety, use of LPG for practical
 - ii) To meet the need of industries by using existing curriculum
 - iii) Creating awareness about self-employment
 - iv) To Maintain Laboratory safety, use of LPG for practical
- e) **Future planning:**
 - i) Submission of PG proposal for M. Sc Chemistry in next session 2021-2022 to start M.Sc. in Chemistry in the college.
 - ii) To start Certificate / Diploma courses related chemistry
 - iii) To Organize National Conference

DEPARTMENT OF COMPUTER SCIENCE

Annual Report (2020-21)

1. **Name of the department** : **Computer Science**
2. **Year of Establishment** : 2001
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s: 04**
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.)
UG: B. Sc.
PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Physics Mathematics Computer Science (PMCOM)
 - ii) Statistics Mathematics Computer Science (SMCOM)
 - iii) Electronics Mathematics Computer Science (EMCOM)
5. **Names of Certificate Courses if any:**
 - i) IIT Spoken Tutorial Certificate Course (NME, ICT GOI Sanctioned)
 - ii) Basic Skills in Computer (Under Jeevan Shikshan Abhiyan)
 - iii) Full Stack Developer (Under Jeevan Shikshan Abhiyan)
 - iv) Digital Marketing (Under Jeevan Shikshan Abhiyan)
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/ semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	04	-	-

8. **Number of teaching posts:**

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	04	01

9. **Teaching Faculty:**

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr.Mrs.Snehal Narale	M.Sc., M.Phil, Ph.D.	Assistant Professor & Head (Regular Ad-hoc,	16.06.2009	12 years
2.	Mrs. Ruma Kapre	B. Sc., MCA	Assistant Professor (Ad-hoc)	2020-21	NA
3.	Mrs. Poonam Jaiswal	M.Sc.	Assistant Professor	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	NA	-
2.	Lab. Attendant	NA	-

11. Number of activities organized: 07

- i) One Day Workshop on “Writing Scientific Research Article/Paper” on 13th October 2020.
- ii) IIT Spoken tutorial Training Program organized by on 21st November 2020.
- iii) A lecture on “IIT spoken Tutorial Portal and Registration” on 6th December 2020.
- iv) A webinar on “Trends and Opportunities in Cloud Technology and Information Technology organized Department of Computer Science in association with Department of Robotics and Cloud Technology, RTMNU on 22nd December 2020.
- v) Conduction of IIT Spoken Tutorial Online Final Examination on 16th and 17th February 2021
- vi) Digital Poster making activity on Safety Major to curb the spread of Covid-19 for 3rd wave” on 15th May 2021
- vii) Article Writing Competition on “Impact of Online Classes on Education” on 28th May 2021

12. Infrastructural Facilities:

- a) **Laboratory:** Yes. The laboratory admeasures 69.67 sq. m.
- b) **Library:** The departmental library is small. The Books are donated by faculty members and Alumni of the department are available in the departmental library.

- c) **ICT facilities:** LCD Projector is available in the department.
- d) **E-books:** 10
- e) **Staff room: Yes, Staff room:** The departmental staff room is well furnished with all basic amenities.

13. Online Teaching assistance:

- a) **Google meet:** Yes
- b) **Google forms:** Yes
- c) **Zoom platform:** No
- d) **Microsoft team:** Yes
- e) **YouTube channel link:** [Snehal Narale - YouTube](#)
- f) **Number of videos / lectures available on YouTube channel:** 11

14. Faculty Profile:

- a) **Dr. Mrs. Snehal Narale, Assistant Professor & Head (Regular Ad-hoc)**
 - i) **Research Papers Published: 01**
 - 1) Issues Of Mobility in Cloud Computing Architecture: A Review, PP 62-68, Journal of Emerging Technologies and Innovative Research (JETIR), August-2020 | **Volume: 7 | Issue: 8** (ISSN-2349-5162), Peer Reviewed Referred Journal, UGC approved journal no 63975
 - ii) **Books Published/ Edited: Nil**
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil**
 - iv) **Guest Lectures Delivered: Nil**
 - v) **Seminars / Conferences / Workshops attended: 21**
 - 1) Participated in Two Days National Webinar on "Recent Trends in Computer Science Research" Organized by Department of Computer Science, Dr. Anasaheb G.D. Bendale Mahila Mahavidyalaya, Jalgaon on **1st and 2nd June 2020**
 - 2) Participated in National Level Webinar on Cyber Security in Present Scenario and Career Opportunities in the Field organized by Department of Computer Science & IQAC of Shri R.L.T College of Science, Akola on **4th June 2020.**
 - 3) Participated in Two Days Interdisciplinary National Webinar on "Man vs. Machines- A dual Teaching Challenge "organized by the Department of Basic Science and Humanities K. J. Somaiya Institute of Engineering & Information Technology, Sion, Mumbai on **4th and 5th June 2020.**
 - 4) Participated in "International Conference on Recent Trends in Advanced Materials-2020" (ICRTAM-2020), Jointly organized by Nevjabai Hitkarini College, Bramhapuri, Dist. Chandrapur, Late.B.S.Arts, Prof.N.G.Science & A.G.Commerce College, Sakharkheda Dist. Buldhana and Shri. Sant Gadge Maharaj Mahavidyalaya, Hingna, Dist. Nagpur held on **6th July, 2020.**
 - 5) Participated and Completed One Week National workshop on Interdisciplinary Research Methodology, ICT application and

innovation in teaching learning process organized by St. Francis De sales College, Nagpur from **8th to 12th June 2020**.

- 6) Participated in Webinar on Introduction to Cloud Computing and AWS organized by Department of Computer Science and Engineering, MGM College of Engineering, Nanded on **10th June 2020**.
- 7) Participated in One Day Webinar on NAAC Awareness and Procedure to be followed under the revised Assessment & Accreditation Framework organized under the aegis of Rashtriya Uchchar Shiksha Abhiyan, Maharashtra & Joint Director, Higher Education, Nagpur Region held on **12th June 2020**.
- 8) Participated in One day Webinar on Teaching, Learning and Evaluation using e-Tools Jointly organized by Department of Computer Science, Department of Physics & Electronics and IQAC Hislop College, Nagpur on **10th July 2020**.
- 9) Participated in International, Interdisciplinary Conference on Computer, Technology, Commerce and management studies (IICCTCMS) organized by P.G. Department of Computer Science SNDT Women's University, Mumbai in association with Aakar College of Management for Women and Aakar Institute of Management and Research studies on **10th and 11th July 2020**
- 10) Participated in One day National Webinar on Preventive Measures for Cyber Threats in Virtual Learning Environment organized by Department of Computer Science and Department of Mathematics held on **15th July 2020**.
- 11) Participated in One Day International Webinar on "Stress Management" organized by St. Francis De sales College, Nagpur on **21st July 2020**.
- 12) Participated in One Day National Webinar on Role of Microcontroller in day-to-day life Organized by Department of Electronics, Dr. Ambedkar College, Nagpur and Department of Electronics and Computer Science RTM Nagpur University, Nagpur on **24th July 2020**.
- 13) Participated and Successfully Completed 7-days Psychological Counselling Training Workshop for Teachers organized by P.G. Department of Psychology, Department of Students Development & HRDC of Rashtra Sant Tukadoji Maharaj Nagpur University, Nagpur from **1st to 7th August 2020**.
- 14) Participated in One Day Webinar on Gender Sensitization organized by Internal Complaints Committee & LifeLong Learning & Extension cell Seth Kesarimal Porwal College of Arts and Science and Commerce, Kamptee in Collaboration with Dharampeth M. P. Deo Memorial Science College, Nagpur on **6th September 2020**.
- 15) Attended one day National Webinar on "Impact of National education Policy 2020" organized by St. Francis De sales College, Nagpur on **3rd November 2020**.

- 16) Attended one day National Webinar on the Occasion of “Constitution Day “organized by St. Francis De sales College, Nagpur on **26th November 2020.**
- 17) Participated in Online National conference on “Challenges in research Methodology” organized by Dhote Bandhu Science College, Gondia in association with Luminescence Society of India (Vidharbha Chapter) on **11th and 12th December 2020.**
- 18) Participation in Webinar On "Trends and Opportunities in Cloud Technology & Information Security" Organized by Department of Industrial Robotics and Cloud Technology, RTMNU, Nagpur in association with Dharampeth M.P. Deo Memorial Science College, Nagpur. On **December 22, 2020**
- 19) Participated in the online NAAC Sponsored Conference on the topic “Reforms and Benchmarks in NAAC Accreditation -2020 onwards” organized by Kamla Nehru Mahavidyalaya, Nagpur on **8th January 2021.**
- 20) Participated in the online international conference on “Stability of Mental and Physical Health of a Person During Co-vid” jointly organized by department of Home Economics Kamla Nehru Mahavidyalaya and Home Economics Association on **22nd May 2021.**
- 21) Participated in One Day National Webinar on “Fundamental of Intellectual Property Rights” organized by IQAC of shri Shivaji Education Society, Amravati’s Science College, Nagpur on **27th May 2021.**

vi) FDP attended: 03

- 1) Attended the Faculty Development Program: Machine Learning Research & Practices Jointly Organized by Department of Computer Science, University of Mumbai and Tilak Education society's SK College of Science and Commerce, Nerul from **3rd June to June 2020** in Online mode
- 2) Participated and successfully completed the one-week National level online FDP on G suite and Allied Tools in Education, Teaching & E content development organized by PG, Department of computer science and engineering, Sant Gadge Baba Amravati university from **26th June to 4th July 2020.**
- 3) Attended Two days FDP on Innovations and Intellectual property Rights organized by IQAC & Innovations and Incubation Cell of Dharampeth M. P. Deo Memorial Science College, Nagpur, J.M. Patel Arts, Commerce & Science College, Bhandara, Bar. Sheshrao Wankhede College of Arts & Commerce, Khaparkheda, Nagpur, Dr. M. K. Umathe College, Nagpur and S. N. Mor College of Arts, Commerce & Smt. G. D. Saraf Science College, Tumsar on **20th, 21st July 2020.**

vii) Awards / Recognitions received: 01

- 1) Appreciation Letter Received from IIT Spoken Tutorial, Bombay (NME, **ICT GOI sanctioned**)

- b) **Mrs. Ruma Kapre: Assistant Professor (Ad-hoc)**
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lecture Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** 04
 - 1) Two Days National Webinar on “Recent Trends in Computer Science Research” On 1st and 2nd June 2020 organized by Department of Computer Science, Dr. Annasaheb G. D. Bendale Mahila Mahavidyalaya, Jalgaon.
 - 2) One-week National Workshop on “Interdisciplinary Research Methodology, ICT Application & Innovation in Teaching Learning Process” organized by St. Francis De Sales College, Nagpur from 8th June to 12th June 2020.
 - 3) National Level webinar on the topic “Intellectual Property Rights” organized by IQAC and Department of Commerce, L. S. Raheja College of Arts & Commerce, Santacruz(W), Mumbai, held on 29th June 2020.
 - 4) 4 days National Seminar on "Ferroelectrics and Dielectrics 2021", organized by Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University in Collaboration with Dharampeth M. P. Deo Memorial Science College, Nagpur from 10th January to 13th January 2021
 - vi) **FDP attended:** 02
 - 1) Five Days Online National Faculty Development Program on “Application of Machine Learning and Deep Learning” held from 24th June to 28th June 2020 at Raj Kumar Goel Institute of Technology, Ghaziabad organized by the Department of Computer Science and Engineering.
 - 2) One-week National Level Online Faculty Development Program on “G Suite & Allied Tools in Education, Teaching & E-Content Development” held during the period 29th June 2020 to 04th July 2020, organized by Post Graduate Department of Computer Science & Engineering, Sant Gadge Baba Amravati University, Amravati.
 - vii) **Awards / Recognitions received:** Nil
- c) **Mrs. Poonam Jaiswal, Assistant Professor (Ad-hoc)**
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lecture Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil

15. **Students Achievements if any:**

- i) Monika Ulhas Borikar participated in NMC COVID CALL CENTER on 12th

May 2021 received certificate for Beta Covid Campaign from Govt.of India.

ii) Abhishek Muley Topper from Boys final year received Trophy and cash prize.

16. Student Research Projects if any:

Development of Online Portal for the submission of Assignments and Conducting Online Test Examinations (www.dsccsedproject001.in)

17. Diversity of Students

- i) Total number of students enrolled: 228
- ii) Number of Students from home state: 224
- iii) Number of Students from other state: 04

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	63	63	63	100
B. Sc. Sem.-II	63	63	63	100
B. Sc. Sem.-III	60	60	58	96.66
B. Sc. Sem.-IV	60	60	60	100
B. Sc. Sem.-V	105	105	103	98.09
B. Sc. Sem.-VI	105	105	105	100

19. Student Progression

Student progression	Against % enrolled
UG to PG	25 -30%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship /Self-employment	Nil

20. Awards / Recognitions received by the students:

- i) Samiksha V. Tabhane (CPL Rank in NCC)
- ii) Riddhi Rajkarne Certificate and Medal 10Km Marathon in NCC Camp At No.2 Maharashtra Air Squadron NCC, Microlight Flying

- iii) Seema M. Lakada (District Rank at GK in Poster Competition)
- iv) Sakshi Giri (Got 3rd Rank in Purushottam Karandak and Certificates of Each year Play and pro-Active member Award of Rotract)
- v) Falguni Kadu (3rd Rank and Cash Prize in Intercollegiate painting Competition Rakshi with Trees)

21. Teaching methods adopted to improve student learning:

- i) Use of Tools like Google Doc, Gmail, sheets, Drive, Calendar and Classroom
- ii) Teaching using Power Point Presentation.
- iii) Various presentation, seminars and demonstrations using LCD Projector.
- iv) Various concepts are explained with the help of diagrammatic representation.
- v) Assignments are given to the students and Unit Tests are conducted as a part of their Internal Assessments. Third year students develop their projects using Visual Basic as a front end and Oracle/Ms-access as backend.
- vi) Teachers are always available for one-to-one interaction for clearing their queries.
- vii) We provide Internet access to the students.
- viii) We conduct technical and aptitude test based on fundamental of the various topics from their syllabus.
- ix) Students prepared their presentations emphasis
- x) We give emphasis to the preparation of PPT by students to improve their presentation and communication skills.
- xi) Organize workshop for the students to develop and enhance the interest in the of research.

22. Participation in Institutional Social Responsibility (ISR) and Extension activities

- i) Monika Ulhas Borikar from second year [SCOM Group] participated in NMC COVID CALL CENTER on 12th May 2021 received certificate for Beta Covid Campaign from Govt.of India.
- ii) Participation of Students in 11th National voter's day celebration at collector's office on the occasion of Voter's Day Sakshi Giri performed in play to create awareness amongst Society about importance of voting.
- iii) Bhushan Awasare worked as Leo District President of District 3234-H1 designated by District Governor Ln. Rajendra singh Bagga District 3234-H1 is integral part of the International Association of Lions Club. Leo is youth wing of Lions Club International.
- iv) In Covid time members started Lions Kitchen collaboration with Maharaja of Nagpur Trust and Many lions club from Nagpur. Daily food provided to the needy people's and donated this food in slum areas, red light area, Anathashrams and many more. My home club Nagpur Green Warriors Leo Club started new project name as animal feeding. Members provided food to animals (street Animals), donated 20 thousand bottles of Sanitizers and 50k maske to needy people. Both these activities continued for 6 months.
- v) Most of the Faculty members of the department are in various college committees.

22. **Creativity & Innovations if any:** Online Portal (www.dscsedproject001.in)

23. **SWOC analysis of the department and Future plans:**

a) **Strength:**

- i) Qualified & experience teaching staff
- ii) Students gives preference to opt for computer science
- iii) The department endeavours to be students centric through various activities
- iv) Organized from time to time.
- v) Co-operative Non-teaching staff.
- vi) Projects: Students participate in various projects in large number.
- vii) Trained more than 190 students for IIT Spoken Tutorial Certificate Course. This Course was contiguously run by the department from last 4 years.
- viii) Department has run the certificate course like Basic Skills in Computer, Full Stack Developer and Digital Marketing (Under Jeevan Shikshan Abhiyan)

b) **Weaknesses:**

- i) Paucity of space.
- ii) No PG program.
- iii) Required more approved staff
- iv) Students from language media of instruction have problems comprehending the subject details.
- v) To understand /get more opportunities in the field of IT need to organize some sort of organizational visit.
- vi) The organizational visits help the students to get an experience to diverse industrial activities over different parts of India.

c) **Opportunity:**

- i) Job opportunities are more in IT field for students
- ii) Applied subject
- iii) Enhancement of graduate programs.

d) **Challenges:**

- i) More students less no of computers
- ii) To conduct research in available resource in the college.
- iii) Amplifying the number of pass out students by incorporating plans such as increasing the number of class test to be taken,
- iv) Periodically conducting Parent Teacher Meeting independently for the department.

- v) One to one communication with the students to solve their emotional and personal problem.
 - vi) Making the provision of virtual classroom to the students.
- e) **Future planning:**
- i) To organize more no. of soft skill development programme for students to improve their language skills & etiquettes.
 - ii) To introduce a greater number of short term certified courses which will help the students to meet the requirements as per the demand of industry.
 - iii) Planning to have more numbers of projects for third year students.
 - iv) Planning to have local and outstation industrial visits and study tours for all students which expose the students to the real world and provide an opportunity of on-site study.
 - v) Progressing the infrastructure of the departmental lab.
 - vi) Incorporating the use of electronic media and information and communication technologies (ICT) in education (E-learning) such as: TEL, IBT

DEPARTMENT OF ELECTRONICS**Annual Report (2020-21)**

1. **Name of the department** : Electronics
2. **Year of Establishment** : 1985
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s:** Nil
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.) **UG:** B. Sc.
PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Physics Maths Electronics (PME)
 - ii) Electronics Computer Science Maths (ECoM)
5. **Names of Certificate Courses if any:** Nil
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/ semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc.	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	-	-	-

8. Number of Teaching posts:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	03	01

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. Mrs. Varsha V. Rangari	M. Sc., Ph.D., SET	Associate Professor & Head	12.05.2007	14 years
2.	Mrs. Leena Thakre	M. Sc., SET	CHB, Approved by RTMNU	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	01	01
2.	Lab. Attendant	01	00

11. Number of activities organized: Nil

12. Infrastructural Facilities:

- i) **Laboratory:** Have well equipped Laboratory for hardware experiments and Computer lab. for programming
- ii) **Museum:** No
- iii) **Library:** Departmental library with around 40 books donated by ex-faculty of the department
- iv) **ICT facilities:** Yes, one projector and internet facility.
- v) **E-books:** 09
- vi) **Staff room:** Yes

13. Online Teaching assistance:

- a) **Google meet:** Yes
- b) **Google forms:** Yes
- c) **Zoom platform:** Yes
- d) **Microsoft team:** Yes
- e) **YouTube channel link:** Nil
- f) **Number of videos / lectures available on YouTube channel:** Nil

14. Faculty Profile:

g) Dr. Varsha Rangari, Associate Professor & Head of the Department

i) Research Papers Published: 05

- 1) "Photoluminescence study of Ce³⁺ activated blue emitting Ca₁₄Al₁₀Zn₆O₃₅ lamp phosphors", Journal of Physics: Conference Series, 2021, doi:10.1088/1742-6596/1913/1/012097, (Varsha Rangari, V R Panse, Samiksha B Dhoble and N S Dhoble).
- 2) "Pali lexicography using lexonomy", Journal of Physics: Conference Series, 2021, doi:10.1088/1742-6596/1913/1/012097 (Anupama Devendra Sakhare, Arshad Shareef and Varsha Rangari)
- 3) "LEDs Benefits and Challenges in Road Lighting", International Journal of Scientific Research in Science and Technology, 2021, Volume 8 - Issue 1, p.n.568-583, ISSN: 2395-6011, (Varsha Rangari, Abhijeet R. Kadam, S. J. Dhoble)
- 4) "Synthesis and Luminescence Properties of LaB₃O₆ Doped with Eu³⁺, Dy³⁺ and Tb³⁺", International Journal of Scientific Research in Science and Technology, 2021, Volume 8 - Issue 1, p.n. 591-602, ISSN: 2395-6011 (Varsha Rangari, J.G. Mahakhode, Yatish R. Parauha, S J Dhoble)
- 5) "Zn-quinoline Metal Organic Phosphor for PLLCD and OLED Applications", International Journal of Scientific Research in Science and Technology, 2021, Volume 8 - Issue 1, p.n. 584-590, ISSN: 2395-6011, (J.G. Mahakhode, Varsha Rangari, Yatish R. Parauha, S. J. Dhoble)

ii) Books Published/ Edited:

- 1) Fundamental of Digital Electronics, Central Techno Publications, ISBN-978-81-950067-6-2.

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lectures Delivered: Nil

v) Seminars / Conferences / Workshops attended: 01

- 1) Attended the 5 days online short-term course on "INTERNET OF THINGS" jointly organized by Department of Instrumentation Engineering, Ramrao Adik Institute of technology, Navi Mumbai and B & R Automation Private Limited, from 8th June 2020 to 12th June 2020.

vi) FDP attended: 04

- 1) Attended One-week STTP FDP on "esim" organized by Sinhgad College of Engineering in association with Spoken Tutorial, IIT Bombay.
- 2) Attended One week Faculty development programme on "Python 3.4.3" organized by Department of Computer Engineering, Anantrao Pawar College of Engineering & Research, Pune in Association with Spoken Tutorial IIT Bombay From 1st June 2020-5th June 2020.

- 3) Attended one week FDP on SCILAB TO ENGINEERING APPLICATIONS organized by KAKATIYA UNIVERSITY from 27th July, to 1st August, 2020.
- 4) Attended one-week National Level online FDP on G-Suite and Allied Tools in Education, Teaching and E- content Development organized by P. G. Department of Computer Science & Engineering, SGBAU, Amravati from 29 June to 4 July 2020.

vii) Awards / Recognitions received: Nil

h) Mrs. Leena Thakre, CHB approved by RTM Nagpur University

i) Research Papers Published: Nil

ii) Books Published/ Edited: Nil

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lecture Delivered: Nil

v) Seminars / Conferences / Workshops attended: Nil

vi) FDP attended: Nil

vii) Awards / Recognitions received: Nil

15. Students Achievements if any: Nil

16. Student Research Projects if any: Nil

17. Diversity of Students:

i) Total number of students enrolled: 122

ii) Number of Students from home state: 122

iii) Number of Students from other state: Nil

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	37	35	34	97.14
B. Sc. Sem.-II	37	35	32	91.43
B. Sc. Sem.-III	33	33	33	100.00
B. Sc. Sem.-IV	33	33	33	100.00
B. Sc. Sem.-V	52	52	51	100.00
B. Sc. Sem.-VI	52	52	51	100.00

19. Student progression

Student progression	Against % enrolled
UG to PG	40-50%
PG to M. Phil.	NA
PG to Ph.D.	NA

Ph.D. to Post-Doctoral	NA
Employed	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship /Self-employment	Nil

20. Awards / Recognitions received by the students: Nil

21. Teaching methods adopted to improve student learning:

- i) Seminars and Guest Lectures
- ii) Hands on training
- iii) Power point presentation
- iv) Use of simulation

22. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- i) Being a Member of NSS Committee of the college, actively conducts various social activities.

23. Creativity & Innovations if any: Nil

24. SWOC analysis of the department and Future plans:

a) Strength:

- i) Competent and well qualified staff.
- ii) Good results as compared to other colleges.
- iii) Availability of Research facilities.

b) Weaknesses:

- i) Insufficient teaching staff.
- ii) Input of low caliber students

c) Opportunity:

- i) Most UG students can do PG in Electronics.
- ii) Students can appear for Competitive examination.
- iii) Employment in Electronics & research Industries.

d) Challenges:

- i) Less scope to Electronics Science since B.E. in Electronics are more preferred.
- ii) Less job opportunities in pure Electronics.

e) Future planning:

- i) To enhance students' exposure to the development in the field of electronics
- ii) Plan to organize skill-oriented workshops, so that students can get hands on training.
- iii) To Start certificate course on skill-oriented topics & add-on courses.
- iv) To start interdisciplinary research work.
- v) To reuse the discarded smart mobile phone as a server to store the Electronics subject related information for the electronics students

DEPARTMENT OF LANGUAGES**Annual Report (2020-21)**

1. **Name of the department** : Languages
2. **Year of Establishment** : 1968
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s:** 02
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.)
UG: B. Sc.-I
PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved:**
 - i) English
 - ii) Hindi
 - iii) Marathi
 - iv) Sanskrit
5. **Names of Certificate Courses if any:**
 - i) Certificate Course in Communication Skills and Personality Development
 - ii) Certificate Course in Skill Development for Competitive Exams
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/ semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	Certificate Courses (Hrs.)	-	-	-

8. **Number of Teaching posts:**

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Assistant Professor (Full Time)	01	01
2	Part Time	Nil	NA

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
English					
1.	Dr. Akhilesh Peshwe	B. Sc., M.A, L.L.B, M.Ed. (Texas), Ph.D.	Principal	14.03.2016	6 years
2.	Dr. S. A. Deshpande (English)	B.Tech, M.A, SET, Ph.D.	Assistant Professor & Head	07.02.2007	15 years
Hindi					
3.	Dr. Rajesh Pashine (Hindi)	-	Honourary Faculty (Junior College)	NA	NA
Marathi					
4.	Mrs. Yogita Acharya (Marathi)	-	Honourary Faculty (Junior College)	NA	NA
Sanskrit					
5.	Mrs. Vaishakha Kaskhedikar	-	Honourary Faculty (Junior College)	NA	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Technical Staff	Nil	NA

11. Number of activities organized:

- i) **English: 08**
 - 1) Bridge Course in English (Preposition)

- 2) Poster Competition on 'Empowering Minds'
 - 3) Needs and Wants activity
 - 4) English Language Junction
 - 5) English Literature Gateway
 - 6) Critical Literacy (Framing Questions)
 - 7) Write your Tweet: Unemployment in India
 - 8) Making Pictionary
- ii) **Hindi:** Nil
- iii) **Marathi:** Nil
- iv) **Sanskrit:** Nil

12. Infrastructural Facilities:

- vii) **Library:** Nil
- viii) **ICT facilities:** (Desktop and printers)
- ix) **E-books:** 10
- x) **Staff room:** 01

13. Online Teaching assistance:

- a) **Google meet:** No
- b) **Google forms:** Yes
- c) **Zoom platform:** Yes
- d) **Microsoft team:** Yes
- e) **YouTube channel link:** [Shraddha Deshpande - YouTube](#)
- f) **Number of videos / lectures available on YouTube channel:** 19

14. Faculty Profile:

- a) **Dr. Akhilesh Peshwe, Principal**
- i) **Research Papers Published:** 02
- 1) Role of Native Language in Reversing Under- Achievement: Learning English as a Second Language, by Dattsons, ISBN-10: 8171921876, ISBN-13: 978-8171921874, 2020.
 - 2) Mysticism in Kathleen Raine, by Copal Publishing Group, ISBN-10: , 9383419954 ISBN-13 : .2021 ,9383419951-978
- ii) **Books Published/ Edited:** 01
- 1) Details of books edited: Empowering Minds: prescribed for B.Sc. Compulsory English of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
- iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
- iv) **Guest Lectures Delivered:** Nil
- v) **Seminars / Conferences / Workshops attended:** Nil
- vi) **FDP Attended:** Nil
- vii) **Awards/Recognitions received:** 01
- 1) Recognition Award for being a member of Beat Covid Campaign, by Mahatma Gandhi National Council of Rural Education, Hyderabad,

Department of Higher Education, Ministry of Education, Government of India.

- 2) **Member of RRC:** Dr. Akhilesh V. Peshwe is the member of RRC of Punyashlok Ahilyadevi Holkar Solapur University, Solapur
- 3) **Member of BOS:** Dr. Akhilesh V Peshwe is the member of Board of Studies of Languages in Science.

b) Dr. Shraddha Deshpande, Assistant Professor and Head of the Department

i) Research Papers Published: 01

- 1) Research Paper entitled 'The psychoanalytical study of the sufferer in the Novel 'The Mayor of Casterbridge', in LangLit', An International Peer-Reviewed Open Access Journal, nos. 1-6, Vol 2, Issue 6, Nov-Dec. 2016, ISSN- 2454-3454, Indexed: ICI, Google Scholar, Research Gate, Academia.edu, IBI, IIFC, DRJI, The Cite Factor, COSMOS, Impact factor 5.61.

ii) Books Published/ Edited: 01

- 1) Details of books published /edited: 'Pearls of Wisdom' prescribed for B.Sc. Supplementary English of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lectures Delivered: 07

- 1) Delivered a talk on, 'Introduction to Personality', on Five Days Short Term Programme on Personality Development' organised by Dayanand Arya Kanya Mahila Mahavidyalaya in collaboration with MKLM'S, B.L.Amlani College of Commerce and Economics, M.R.Nathwani College of Arts, Parle , Mumbai, and Principal Arunrao Kalode Mahavidyalaya, Nagpur from 9 June to 13 June 2020.
- 2) Delivered a talk on 'Communication Skills' on Induction Programme 'Vidyarambha' organized by Shri. Binzani City College, Nagpur, Maharashtra, on 26th October 2020.
- 3) Delivered a Lecture on "Importance of Listening Skills" at Institute of Arts and Humanities, Sage, University, Indore, Madhya Pradesh, India on 31st October 2020.
- 4) Delivered a Guest Lecture on 'Grammar' by FEEL, Forum to Enjoy English Language, Teaching & Learning Activity for Students for B.Com. Semester –I Lecture Series on 10th & 11th November 2020.
- 5) Delivered a Lecture on 'The multiple roles of women in society' conducted by Prerna College of Commerce, Nagpur on the occasion of International Women's Day, on 13th March 2021.
- 6) Delivered a Guest Lecture on 'Listening Skills' in One Week Higher Learning Education Program (Online Mode) conducted by Post Graduate Departments of Political science, Marathi & English of Shrimati Binzani City College, Nagpur on 19th March 2021
- 7) Delivered a Guest Lecture on 'My Lord, The Baby' organized by R.S.Mundle, Arts and Commerce College, Nagpur, on May 2021.

v) Seminars / Conferences / Workshops attended: 04

- i) Participated in Soft Skills Development Workshop, 'Train the Trainer organised by Rashtrasant Tukadoji Maharaj Nagpur University, UGC Human Resource Development Centre, Nagpur, Programme' from 13th to 17th July 2020.
- ii) Attended 7 Days Psychological Counseling Training Workshop for Teachers organized by PG Department of Psychology, Department of students' Development & HRDC of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur from 1-7 August 2020.
- iii) Attended a national webinar on "GENDER SENSITISATION AND CONTEMPORARY DISCOURSE" organised in association with Internal Quality Assurance Cell (IQAC) of Krantiagrani G. D. Babu Lad Mahavidyalaya Kundal on 5th September, 2020.
- iv) Attended a International webinar on "Literature for facing Challenges in Life" organised by Department of English, B.B. Autonomous Mahavidyalaya, Chandikhole, on 7th September 2020.
- vi) **FDP Attended: Nil**
- vii) **Awards/Recognitions received: 01**
 - 1) Recognition Award for being a member of Beat Covid Campaign, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.

15. Students Achievements if any: 04

- i) Rtr. Shardul Moharil, as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.
- ii) Rtr. Tanuja Kherdekar , as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.
- iii) Rtr. Monika Borikar, as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.
- iv) Rtr. Aanchal Yadav, as a Team member of Beat Covid Campaign by providing psychological support, by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India.

16. Student Research Projects if any: Nil

17. Diversity of Students:

- i) **Total number of students enrolled: 253**
- ii) **Number of Students from home state: 253**

iii) Number of Students from other state: Nil

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I				
Compulsory English	253	252	251	99.60%
Marathi	85	85	85	100%
Hindi	119	113	111	98.23%
Supplementary English	42	41	41	100%
Sanskrit	7	7	7	100%
B. Sc. Sem.-II				
Compulsory English	254	254	253	99.60%
Marathi	81	81	79	97.53%
Hindi	119	115	115	100%
Supplementary English	42	40	40	100%
Sanskrit	7	7	7	100%

19. Student progression

Student progression	Against % enrolled
UG to PG	NA
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship /Self-employment	Nil

20. Awards / Recognitions received by the students:

- i) Mr. Shardul Moharil, Ms.Tanuja Kherdekar, Ms.Monika Borikar and Ms.Aachal Yadav received Recognition Award by Mahatma Gandhi National Council of Rural Education, Hyderabad, Department of Higher Education, Ministry of Education, Government of India
- ii) Rotary Citation by Rotary International to Rotaract Club Members.
- iii) Appreciation Certificate for Rotaract Club Activities with special reference to service during Covid-19 pandemic to Rotaract Club Members.

21. Teaching methods adopted to improve student learning:

- i) Flipped Classrooms
 - ii) Inquiry based Learning
 - iii) Discussion based Learning
- 22. Participation in Institutional Social Responsibility (ISR) and Extension activities:**
- i) Students' participation in Rotaract Club activities
 - ii) Students' participation in NSS activities
- 23. Creativity & Innovations if any:**
- i) English Literature Gateway: Students created quotes on their own.
 - ii) Pictionary: Students created a Pictionary for reference
- 23. SWOC analysis of the department and Future plans:**
- a) **Strength:**
 - i) High Profile faculty
 - ii) Teaching learning methodology
 - iii) Strengthening of Social and Human Values among students
 - iv) Rapport with students
 - b) **Weaknesses:**
 - i) Handling large classrooms
 - ii) Lack of Connect due to online mode of teaching
 - iii) Lack of seriousness about language learning
 - c) **Opportunity:**
 - i) Communication Skills and Personality Development Courses
 - ii) Skill Development for Competitive Exams Courses
 - iii) GRE, TOEFL Courses
 - d) **Challenges:**
 - i) Adjustment of bigger batches
 - ii) Time constraints to improve poor grammar and vocabulary skills
 - iii) Mixed ability classroom
 - e) **Future planning:**
 - i) To focus on English Language Communicative Skills Development
 - ii) To update teaching learning methods of English language learning
 - iii) To incorporate activity-based learning programmes

DEPARTMENT OF HOME SCIENCE

Annual Report (2020-21)

1. **Name of the department** : Home Science
2. **Year of Establishment** : 1981
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s:** 03
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.) **UG: B. Sc.**

4. Names of Interdisciplinary courses and the departments/units involved

➤ The programme of Home Science gives a syllabus with no choice. All the Subjects are compulsory at all the Semester with an interdisciplinary approach.

5. Names of Certificate Courses if any:

- i) Public Health & Nutrition
- ii) Basics of Jewelry Design
- iii) Basics of Computer (IIT Spoken Tutorial)

6. Collaborations / MoUs if any: Nil

7. Programme wise Annual/ semester/choice-based credit system:

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	-	Duration of 3 Weeks	-

8. Number of Teaching posts:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor		
2.	Associate Professor		
3.	Assistant Professor	07	02

9. Teaching Faculty: Academic Session 2020-21

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Mrs. M. M. Deshpande Permanent Faculty	M. Sc., M. Phil, in Human Development	Associate Professor & Head of the Department	16.11.1987	33 years
2..	Mrs Ranjana K Kulat Permanent Faculty	MSc, Textiles & Clothing		16.11.87	33 years
3.	Dr Mrs Srilakshmi Potluri	M. Sc., Ph.D.	CHB, Approved by RTMNU	2020-21	NA
4.	Mrs. Meghana Pandit	M. Sc., NET	CHB, Approved by RTMNU	2020-21	NA
5.	Dr. Manda Patil	M. Sc., Ph.D.,	CHB, Approved by RTMNU	2020-21	NA
6.	Mrs Pradnya Bagalkote	M. Sc, SET	CHB Approved by RTMNU	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant		
2.	Lab. Attendant	02	02

11. Number of activities organized: 08

- i) Webinar titled theme “Healthy children -Healthy Nation”
- ii) Webinar on the topic “Special Care of Mother & Baby” in association with NSI

- iii) E-Webinar on the theme Role of Dietitian in Corporate World.
- iv) Lecture on the Topic “Life Skill Development”.
- v) Intra -departmental Activity with Dept of Microbiology of online poster making competition, Theme: Life During Covid.
- vi) Department of Home Science & IDA arranged activity on Heart Health, A lecture followed by recipe on walnut. Students Participated
- vii) Lecture on Geriatric Nutrition.
- viii) World Laughter Day Event as stress buster for Student in Pandemic

12. Infrastructural Facilities:

- a) **Laboratory:** 04
- b) **Museum:** NIL
- c) **Library:** Departmental Library
- d) **ICT facilities:** One LCD
- e) **E-books:** Nil
- f) **Staff room:** 01

13. Online Teaching assistance:

- a) **Google meet:** No
- b) **Google forms:** Yes
- c) **Zoom platform:** No
- d) **Microsoft team:** From College registered as a faculty
- e) **YouTube channel link:** Nil
- f) **Number of videos / lectures available on YouTube channel:** NA

14. Faculty Profile:

- a) **Mrs Manju Milind Deshpande**, Associate Professor & Head of the Department
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** 03
 - 1) Sir Vithaldas Thackersey College of Home Science (Autonomous), Affiliated to S.N.D.T Women’s University, Mumbai on the Topic “An integrated Approach to Holistic Wellness” on 3rd June 2020 Initiative by the IQAC Committee of the College.
 - 2) Dated 12th June 2020 Ambedkar College, Deekshabhoomi conducted one day Webinar on ‘NAAC: Awareness & Procedure to be followed Under the Revised Assessment & Accreditation Frame Work.
 - 3) Attended a National Webinar on 14th of July “Breast Cancer Awareness & Nutritional Considerations –Need of an hour.
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil

- b) **Mrs Ranjana K Kulat,**
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil
- c) **Mrs Meghana Pandit, CHB approved by RTM Nagpur University**
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil
- d) **Dr Sriakshmi Potluri, CHB approved by RTM Nagpur University**
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil
- e) **Dr. Manda Walokar, CHB approved by RTM Nagpur University**
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards / Recognitions received:** Nil
- f) **Mrs. Pradhnya Bagalkote, CHB approved by RTM Nagpur University**
- i) **Research Papers Published:** Nil
 - ii) **Books Published /Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest Lectures Delivered:** Nil

- v) **Seminars / Conferences / Workshops attended:** Nil
 - 1) On line Course on Nutrition care of the Covid-19 patients Strategies for clinicians to optimize Recovery
- vi) **FDP attended:** Nil
- vii) **Awards / Recognitions received:** Nil

15. Students Achievements if any:

- i) Miss Nancy Jaisinghanian Stood 6th in Order of Merit in the RTMNU Summer 2021 Examinations.

16. Student Research Projects if any: Nil

17. Diversity of Students

- i) **Total number of students enrolled:** 91
- ii) **Number of Students from home state:** 91
- iii) **Number of Students from other state:** Nil

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	20	19	13	68.42
B. Sc. Sem.-II	20	18	16	84.21
B. Sc. Sem.-III	42	42	39	92.86
B. Sc. Sem.-IV	42	41	41	100
B. Sc. Sem.-V	32	30	29	96.66
B. Sc. Sem.-VI	32	30	30	100

19. Student progression

Student progression	Against % enrolled
UG to PG	14 out of 30
PG to M. Phil.	46.66%
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	NA
➤ Campus selection	Nil
➤ Other than campus recruitment	03
Entrepreneurship /Self-employment	03

20. Awards / Recognitions received by the students:

- 1) Janhavi Kadu, student of B Sc. H. Sc. I year is promoted in the field of Sports.

She is undergoing training programme for selection trials for National team.

21. Teaching methods adopted to improve student learning:

- i) Google survey
- ii) Traditional methods of teaching - learning emphasized
- iii) Project based
- iv) Visits

22. Participation in Institutional Social Responsibility (ISR) and Extension activities

- i) Student centric awareness programme on sensitizing pandemic issues
- ii) Concept of keeping environment clean
- iii) Swaachhatha Sapath (oath) to keep environment clean

23. Creativity & Innovations if any: Nil

22. SWOC analysis of the department and Future plans

a) Strength:

- i) Students' achievement in Academics
- ii) Skill based Certificate courses for incorporating Skills amongst Students. Presently running two.
- iii) Focus on Student Centric Activities.

b) Weaknesses:

- i) Faculty Crunch
- ii) Research mind in students

c) Opportunity:

- i) Grooming Vocational Skills
- ii) More % of students seeking PG Programme of study
- iii) Student seeking PG programme in other Universities.
- iv) Strengthening Computer Knowledge via Courses & on-line Teaching - Learning

d) Challenges:

- i) As teaching - learning was on line faced distinct & rare problems
- ii) Self-Improvement & satisfaction as a teacher due to new normal & on line. teaching learning
- iii) Preparing Students for on line Examinations & gaining timely feedback.
- iv) Teacher Crunch.

e) Future planning:

- i) Holistic Development of Students
- ii) Students excel in result & academic performance
- iii) Strengthening practical knowledge via Internship programmes
- iv) Make all Students Techno -savvy
- v) Soft Skills & vocational skills

- vi) Promoting higher Education
- vii) Making Home Science as Agent for social change via subject like Community Nutrition, Public health, Extension Education & impart education to strengthen role to be able to serve in allied branches where & as far as possible the knowledge utility is there.

DEPARTMENT OF MATHEMATICS

Annual Report (2020-21)

1. **Name of the department** : Mathematics
2. **Year of Establishment** : 1968
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s: 03**
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.)

UG: B. Sc.

PG: M. Sc. (Mathematics)
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Physics, Statistics, Mathematics (PSM)
 - ii) Physics, Electronics, Mathematics (PME)
 - iii) Physics, Chemistry, Mathematics (PCM)
 - iv) Physics, Computer Science, Mathematics (PCOM)
 - v) Computer Science, Statistics, Mathematics (SCOM)
 - vi) Computer Science, Electronics, Mathematics (ECOM)
5. **Names of Certificate Courses if any:**
 - i) Certificate Course in Vedic Mathematics
 - ii) Certificate Course in LATEX
 - iii) Communication Skill
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/ semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	M. Sc. (Mathematics)	-	Yes	Yes
3.	Certificate Courses (02)	-	-	Yes

8. **Number of Teaching posts:**

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	02	01

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. N. P. Gaikwad	M. Sc., M.Phil., Ph.D.	Associate Professor and Head	09.02.2007	15 years
2.	Mr. Roshan Thakre	M. Sc., SET, NET	Assistant Professor (Ad-hoc)	14.01.2020	6 Months

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	-	-
2.	Lab. Attendant	-	-

11. Number of activities organized: Nil

12. Infrastructural Facilities:

a) **Classrooms:** 02

i) Separate classrooms for M. Sc. with the capacity of 30 students.

b) **Staff room:** 01

i) Well-furnished staff room for the teachers and a separate room for the Head of the department.

c) **Library:** Nil

d) **ICT Facilities:** Computer, Printer, personal laptop, mobile, etc.

e) **E-books:** Nil

13. Online Teaching assistance:

a) **Google meet:** Yes

b) **Google forms:** Yes

c) **Zoom platform:** Yes

d) **Microsoft team:** Yes

e) **YouTube channel link:** No

f) **Number of videos / lectures available on YouTube channel:** Nil

14. Faculty Profile:

a) **Dr. N. P. Gaikwad**, Assistant Professor & Head of the Department

- i) Research Papers Published: 01**
 - 1) BULK VISCOUS BIANCHI TYPE I BAROTROPIC FLUID COSMOLOGICAL MODEL WITH VARYING Λ AND FUNCTIONAL RELATION ON HUBBLE PARAMETER IN ROSEN'S BIMETRIC GRAVITY, Adv. Math. Sci. J., Vol. 10 (5), 2515 (ISSN: 1857-8365 (printed); 1857-8438 (electronic))

- ii) Books Published/ Edited: 01**
 - 1) Introduction & Applications of Laplace Transformation, Swastik Publications, ISSN/ ISBN No. 978-81-951810-4-4
- iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil**
- iv) Guest Lectures Delivered: Nil**
- v) Seminars / Conferences / Workshops attended: 03**
 - 1) Online Workshop on Assessment and Accreditation Process of NAAC, in Association with Joint Director, Higher Education Nagpur Region & RUSA Government of Maharashtra, 15th June 2020.
 - 2) Two Days National Webinar on "Analysis of Mathematical Sciences and It's Applications" organized by Institute of Science & Laboratory Education, IPS Academy, M. P., 15-16 June, 2020.
 - 3) International E-Conference on Emerging Advances in Mathematical and Physical Sciences (IECEAMPS) on June 28-30, 2020 Jointly organized by Department of Mathematics and Physics Hindu College, Moradabad
- vi) FDP attended: 03**
 - 1) Completed in Online Faculty development program on Applications of GeoGebra organized by Department of Applied Mathematics & Humanities and Department of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur from 1st June to 5th June 2020 in association with Spoken Tutorial Project, Indian Institute of Technology, Bombay, Funded by National Mission on Education through ICT, MHRD, Govt. of India.
 - 2) Completed One Week Online Workshop on 'Interdisciplinary Research Methodology, ICT Application & Innovations in Teaching Learning Process' organized by St. Francis De Sales College, Nagpur From June 08th to 12th 2020.
 - 3) Completed Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSWS and CO-CREATING MOOC's 2.0" organized by Teaching Learning Center Ramanujan College, New Delhi Sponsored by MHRD PMMNMTT from May 18 - June 03, 2020.

vii) Awards / Recognitions received: Nil

b) Mr. Roshan Thakre, Assistant Professor (Non-Grant), approved by RTM Nagpur University

i) Research Papers Published: Nil

ii) Books Published/ Edited: Nil

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lectures delivered: Nil

v) Seminars / Conferences / Workshops attended: 01

- 1) One Day National E-Seminar on “The Role of Mathematics and Computer Science in Artificial Intelligence (AI) and Machine Learning (ML)”, Organized by Department of Mathematics, Statistics and Internal Quality Assurance Cell (IQAC) of Krishna Mahavidyalaya, Rethare BK, 31 August 2020.

vi) FDP attended: Nil

vii) Awards / Recognitions received: Nil

15. Students Achievements if any: Nil

16. Student Research Projects if any: Nil

17. Diversity of Students:

i) Total number of students enrolled: 595

ii) Number of Students from home state: 591

iii) Number of Students from other state: 04

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	185	184	183	99.46
B. Sc. Sem.-II	185	185	184	99.46
B. Sc. Sem.-III	176	176	173	98
B. Sc. Sem.-IV	176	176	174	98.8
B. Sc. Sem.-V	234	232	232	100.00
B. Sc. Sem.-VI	234	234	232	99.15
M.Sc. Sem-I	23	23	23	100
M.Sc. Sem- II	23	22	22	95.65
M.Sc. Sem-III	21	21	21	100
M.Sc. Sem IV	21	21	20	95.24

19. Student progression:

Student progression	Against % enrolled
UG to PG	40-50%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship /Self-employment	Nil

20. Awards / Recognitions received by the students: Nil

21. Teaching methods adopted to improve student learning: Nil

22. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

23. Creativity & Innovations if any: Nil

24. SWOC analysis of the department and Future plans:

a) Strength:

- i)** Highly Qualified and Dedicated teaching Staff
- ii)** Extensive Student- Teacher Interaction.
- iii)** Full time years Post graduate affiliated to RTM Nagpur University, Nagpur

b) Weaknesses:

- i)** Industry views are yet to be introduced.
- ii)** Lack of Teaching staff

c) Opportunities:

- i)** Scope to do Masters in Industrial Mathematics having high jobs.
- ii)** Post-Graduation in Mathematics opens up opportunities in the teaching field.

d) Challenges:

- i)** Children from low socio-economic backgrounds might not be sufficiently exposed to the necessary resources and experiences for [learning mathematics](#) concepts.

e) Future planning:

- i)** Improve upon the student's results profile.
- ii)** Intensive Student-Teacher interaction.
- iii)** Publishing research papers in UGC approved journals.
- iv)** To obtain Minor Research Project for the Department.
- v)** More participation of the Department in Extension activities.
- vi)** To arrange guest lectures of eminent Mathematicians for students.
- vii)** To enhance the Research activities of the Department.

DEPARTMENT OF MICROBIOLOGY**Annual Report (2020-21)**

1. **Name of the department** : **Microbiology**
2. **Year of Establishment** : 1986
3. **Names of Programmers/Courses offered** : **No. of Certificates Course/s: 01**
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.)
UG: B.Sc.
PG: Nil
4. **Names of Inter-disciplinary courses and the departments/units involved**
 - i) Chemistry, Zoology, Microbiology (CZM)
 - ii) Chemistry Botany Microbiology (CBM)
 - iii) Public health and Communication in Home Science (Semester-V &VI)
5. **Names of Certificate Courses if any: 01**
 - i) UGC's Certificate course in **Bioinformatics**.
6. **Collaborations / MoUs if any: Nil**
7. **Program-wise Annual/semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B.Sc.	-	Yes	-
2.	M.Sc.	-	-	-
3.	Certificate Courses	01	-	-

8. Number of teaching posts:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	04	02

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. Mrs. A. S. Kulkarni	M. Sc., Ph.D.	Asso. Professor & Head	16.11.1987	34
2.	Dr. Mrs. V. R. Kathoke	M. Sc., Ph.D.	Asso. Professor	01/8/1990	31
3.	Mrs. Sadiya Deshmukh	M. Sc., SET	CHB, Approved by RTMNU	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	01	01
2.	Lab. Attendant	02	01

11. Number of activities organized: 03

- i) **Online Poster Competition** (Handmade/Digital) on Life during Covid 19 Pandemic Times in collaboration with Home Sci. Dept (28/01/2021)
- ii) **Skill Development Program** in Medical Field in Collaboration With i-Transform paramedics
- iii) Department of Microbiology in collaboration with Entrepreneurship development cell of the college and i-Transform paramedic centers jointly organized government approved skill development program in medical field to make students ready for jobs in health care industry. This program was fully sponsored by the government. Ten students of the department participated in this program. (22/01/2021)
- iv) **National Science Day Competition:** On this day department organized online PPT& E-Poster competition

12. Infrastructural Facilities:

- a) **Laboratory:** The laboratory admeasures 69.7 sq. m.
- b) **Instrumentation Room:** Admeasures 22.2 Sq. m.
- c) **Library:** The departmental library is small and is set up in the instrumentation room. It has collection of around 150 books and some journals.
- d) **ICT facilities:** Departmental laboratory is equipped with ICT facility.
- e) **E-books:** 05

f) **Staff room:** The departmental staff room is well furnished with all basic amenities.

13. Online Teaching assistance:

a) **Google meet:** Yes

b) **Google forms:** Yes

c) **Zoom platform:** Yes

d) **Microsoft team:** Yes

e) **YouTube channel link:** [Microbiology Made Easy - YouTube](#)

f) **Number of videos / lectures available on YouTube channel:** 04

14. Faculty Profile:

a) **Dr. Mrs. A. S. Kulkarni**, Vice Principal, Associate Professor & Head of the Department

i) **Research Papers Published:** 01

- 1) “Antibiotic Resilience Pattern and ceftrimide induced ultra-structural changes Multidrug Resistance *S.aureus*”, **Archana Kulkarni**, Anuradha Deo, Seema Nimbarte, Journal of Critical Review, ISSN-2394-5125, Vol 7, Issue 16,2020 (1053-1065)

ii) **Books published/ edited:** Nil

iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil

iv) **Guest lectures delivered:** Nil

v) **Seminars / Conferences / Workshops attended:** 05

- 1) Webinar, National level, “Achieving excellence in higher education in India in the 21st century: challenges and opportunities” organized by school of business studies and IQAC, Sharada University, June 3, 2020
- 2) Webinar, International, “Current perspectives of microbial disease 2020”, organized by Yashvantrao Chavhan college of science, Karad, June 5, 2020
- 3) Webinar, National level, “Teaching During and post corona times”, organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) of MHRD, June 12, 2020
- 4) Webinar, National level, ‘NAAC Awareness and Procedure to be followed under the Revised Assessment & Accreditation Framework’ organized under the aegis of Rashtriya Uchchatar Shiksha Abhiyan, Maharashtra & Joint Director, Higher Education, Nagpur Region, June 12, 2020
- 5) Online workshop, National Level, ‘Modalities of NAAC Process to Enhance Quality Parameters in HEI’ organized by Shiksha Mandal’s Bajaj College of Science, Wardha in association with SPD RUSA, Maharashtra, 13th June, 2020.
- 6) National conference on “New Guidelines for assessment and Accreditation” organized by LAD College, Nagpur on 21st September,

2020

- vi) **FDP attended:** Nil
- vii) **Awards/Recognitions received:** Nil

b) Dr. Mrs. V. R. Kathoke. Associate Professor

- i) **Research Papers Published:** Nil
- ii) **Books Published/ Edited:** Nil
- iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
- iv) **Guest Lectures Delivered:** Nil
- v) **Seminars / Conferences / Workshops attended:** 03
 - 1) National Webinar on Zoom App. “Skill Management in Civil Services” organized by Department of Public Administration, Kavikulaguru Kalidas Sanskrit University, Ramtek, 11th June 2020.
 - 2) One Day Webinar on ‘NAAC Awareness and Procedure to be followed under the Revised Assessment & Accreditation Framework’ organized by Rashtriya Uchchar Shiksha Abhiyan, Maharashtra & Joint Director, Higher Education, Nagpur Region, Friday, June 12, 2020.
 - 3) National Webinar on Avenues in Microbiology organized by N.R. Swamy College of Commerce & Economics & Smt. Thirumalai College of Science, Department of Microbiology, S.I.W.S. College in collaboration with Microbiologist Society, India. 20 June, 2020 3:30 p.m. to 6:30 p.m.
- vi) **FDP attended:** 01
 - 1) Two days faculty development program on ‘Innovations and Intellectual Property Rights’ organized by Dharampeth M. P. Deo Memorial Science College Nagpur in collaboration with Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur on 20th to 21st July, 2020.
- vii) **Awards/Recognitions received:** Nil

Mrs. Sadiya Deshmukh, CHB, approved by RTM Nagpur University, Nagpur

- i) **Research Papers Published:** Nil
- ii) **Books published/ edited:** Nil
- iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
- iv) **Guest lectures delivered:** Nil
- v) **Seminars / Conferences / Workshops attended:** Nil
- vi) **FDP attended:** Nil
- vii) **Awards/Recognitions received:** Nil

15. Students Achievements if any:

- 1) **Miss Prachi Pardhi** of B.Sc Final year brought laurels to the college by participating in number of Co-curricular activities.

- 2) Secured **First** place in an online **National-level** poster competition organized by Punyashlok Ahilyadevi Holkar Solapur University, Solapur (On Occasion of World Environment Day), on climate change and global warming. She received an E-Certificate and Cash prize of Rs. 1111.00/- (05/06/2020)
- 3) Won **First** place in an online **Intercollegiate-level** poster competition organized by Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur (On the Occasion of World Zoonoses Day). She received an E- Certificate and Cash prize of Rs.500.00/- (11/07/2020)
- 4) Won **Consolation** prize in an online **National-level** poster competition organized by PG Department of Biotechnology Lyallpur Khalsa College, Jalandar, Punjab, on Art in the time of Corona. She received an E- **Certificate and the trophy.** (30/09/2020)
- 5) Won **Best portrait award** in an online **International-level** pencil sketch competition organized by Microbiologist Society of India and School of life science, BSACIST, Chennai. She received an E- Certificate and the **trophy.** (25/11/2020)
- 6) Secured **First** place in an online digital poster competition Organized by our college Dharampeth M P Deo Memorial Science College, Nagpur, on Life during Covid-19 pandemic times. She received an E-Certificate. (15/02/2021)
- 7) Secured **Second** place in an online **Intercollegiate-level** poster competition organized by Sevalal Mahila Mahavidyalaya on the occasion of National Science day. She received a Certificate and the **trophy.** (28/02/2021)
- 8) Won **Best poster award** in an 20th **National level** Micro-Bio-Canvas Organized by Department of Microbiology, Government institute of Science, Aurangabad on Virus: Bad news Wrapped up in protein. She received an E-Certificate. (05/03/2021)

News links: <https://thelivenagpur.com/2020/06/06/prachi-pardhi-of-dharampeth-science-college-nagpur-wins-first-position-at-national-level-online-poster-making-competition/>

<https://thelivenagpur.com/2021/09/08/prachi-pardhi-of-m-p-deo-memorial-science-college-selected-for-best-student-20-21/>

- 9) **Miss Nandini Hadge:** Won **3rd** place in **International** Microbiology Olympiad organized by Microbiologist society, India. Jharkhand unit in association with Micro-Olympiad committee in collaboration with Dr. Microbiologist on 15th September, 2021. She received an E-Certificate.

News link: <https://thelivenagpur.com/2021/09/15/nandini-hagde-student-of-dharampeth-m-p-deo-memorial-science-college-wins-third-rank-in-international-microbiology-olympiad/>

16. Student Research Projects if any: Nil

17. Diversity of Students:

- i) **Total number of students enrolled:** 205
- ii) **Number of Students from home state:** 205
- iii) **Number of Students from other state:** Nil

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	58	58	55	94.82%
B. Sc. Sem.-II	57	57	57	100.00
B. Sc. Sem.-III	66	66	66	100.00
B. Sc. Sem.-IV	66	66	66	100.00
B. Sc. Sem.-V	81	81	81	100.00
B. Sc. Sem.-VI	81	81	81	100.00

19. Student progression:

Student progression	Against % enrolled
UG to PG	25-30%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship/Self-employment	Nil

20. Awards/Recognitions received by the students:

- i) Prachi Pardhi received Best Student Award 2020-21 by Microbiologist Society of India (MSI).
- ii) Sanchita Puntambekar of Sem.-IV was awarded- Best Rotaractor Female award.

21. Teaching methods adopted to improve student learning:

- i) You tube videos
- ii) Organizing competitions
- iii) By arranging seminars and GD
- iv) By providing additional reading material and notes
- v) By giving home assignments
- vi) Unit tests through Google forms

22. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- i) **Mr. Kunal Parate** semester IV student of department of microbiology worked in the pharmacy attached to the municipal corporation run hospital, this hospital was purely dedicated for the treatment of covid patient.
- ii) Although **Mr Kunal Parate** is undergraduate student of microbiology but he also has acquired D-pharm degree earlier, so he provided his help in distributing medicines through the pharmacy store attached to that hospital.
- iii) Another student of the department **Mr. Nilesh Ghate** studying in semester IV distribute food grains to the need people and stranded students. He assisted various people by his selfless services to the society.
- iv) Participation of students in the Street Play organized to create Awareness about Road Safety. A road safety awareness program was conducted in collaboration with “JANA-AAKROSH” where students performed a Street play at various places of Nagpur, like -Dharampeth Science College Premises, Central Mall, Collector’s office etc. The student’s team won 3rd prize in this competition.
- v) Participation of Students in 11th National voter’s day celebration at collector’s office: On the occasion of Voter’s Day some students performed play on “**Chalo Kare Matdan**” to create awareness amongst Society about importance of voting.

23. Creativity & Innovations if any:

- i) **Jig-Saw Puzzle** on basic concepts in microbiology

24. SWOC analysis of the department and Future plans Strength:

a) Strength

- i) Faculty dynamics and interactions within the department is very good.
- ii) Senior and experienced teaching and non-teaching staff known for its efficiency.
- iii) Well-equipped laboratory with adequate instruments.
- iv) Globally placed alumni.
- v) Rich regional identity.
- vi) Faculty-students dynamics excellent.
- vii) Departmental library has good collection of books.
- viii) Consistently good results of the department.

b) Weaknesses:

- i) Limited access to the resources.
- ii) Teacher: student ratio inadequate.
- iii) Less flexibility within the course.
- iv) Large population of students coming from mofussil area face problems in English conversation.

c) Opportunity:

- i) Ample scope to develop linkages or MOUs with various industries like Pharma, Food Beverages & Milk, Health care sector, Biofertilizer plant etc
- ii) Various job opportunities for students to work in Govt. and Public sector or become an entrepreneur.

d) Challenges:

- i)** Limited course flexibility, unable to attract students from other states and overseas.
- ii)** Many a times teachers find it challenging to acquaint the topic in English to the students.

e) Future planning:

- i)** Increase involvement of alumni for students' placements.
- ii)** To apply for research projects.
- iii)** To strengthen collaborations with industries for research and student's internship.

DEPARTMENT OF PHYSICS
Annual Report (2020-21)

1. **Name of the department** : Physics
2. **Year of Establishment** : 1968
3. **Names of Programmes/Courses offered** : **No. of Certificates Course/s:** Nil
(Certificate, UG, PG, M.Phil., Ph.D., UG: B.Sc.
Integrated Masters; Integrated Ph.D., etc.) PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Physics Chemistry Mathematics (PCM)
 - ii) Physics Statistics Mathematics (PSM)
 - iii) Physics Electronics Mathematics (PEM)
 - iv) Physics Computer Science Mathematics (PCOM)
 - v) Applied Physics and Basic Computer for B. Sc. (Home Science), Sem.-I & II
 - vi) Applied Physics and Computer Application for B. Sc. (Home Science), Sem.-III & IV)
5. **Names of Certificate Courses if any:** Nil
6. **Collaborations / MoUs if any:** 01
 - i) Minex Metallurgical Company Limited Mumbai, India-400069
7. **Programme-wise Annual/semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	-	-	-

8. **Number of Teaching posts:** 02

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	09	02

9. **Teaching Faculty:**

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. Mrs. S. K. Ubale	M. Sc., Ph.D.	Professor & Head	16.11.1987	33 years

2.	Dr. P.W. Ambekar	M. Sc., M.Phil. Ph.D. NCC Pre commission	Assistant Professor	16/06/2003	18 years
3.	Dr. Mrs. Archana Deshpande	M. Sc., Ph.D.	CHB, Approved by RTMNU	2020-21	NA
4.	Dr. Mrs. Nutan Satpute	M. Sc., Ph.D.,	CHB, Approved by RTMNU	2020-21	NA
5	Dr. Ms. Rukmini Kunghatkar	M. Sc., Ph.D.,	CHB, Approved by RTMNU	2020-21	NA
6	Dr. Ms. Suedha Tamboli	M. Sc., Ph.D.,	CHB, Approved by RTMNU	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	03	-
2.	Lab. Attendant	08	03

11. Number of activities organized: 03

- i) Online guest lecture on National Science Day titled, 'Introduction to Drones and Career Prospects in India', which was delivered by Mr. Mohit Shahane
- ii) Online Poster competition for students on the theme of National Science Day
- iii) An online guest lecture titled, 'Career Opportunities after B. Sc. (Physics)', which was delivered by Dr. Mrs. Arati Wazalwar.

12. Infrastructural Facilities:

- a) **Laboratory:** Yes, 1 General + 1 Dark room and Research Room + 1 Electronics Experiments Laboratory
- b) **Library:** Yes
- c) **E-books:** Nil
- d) **ICT facilities:** Yes
- e) **Staff room:** Yes

13. Online Teaching assistance:

- a) **Google meet:** Yes
- b) **Google forms:** Yes
- c) **Zoom platform:** No
- d) **Microsoft team:** Yes
- e) **YouTube channel link:** [Prashant Ambekar - YouTube](#)
- f) **Number of videos / lectures available on YouTube channel:** 13

14. Faculty Profile:

- a) **Prof. Mrs. S. K. Ubale**, Head of the Department
- vi) **Research Papers Published:02**
- 1) JETIR December2020, Volume 7, Issue 12 (ISSN-2349-5162) 1050 – 1058, ‘Study of electrical resistivity of fly ash composite’, Swati Joshi, S.K.Ubale, S.J.Dhoble
 - 2) International Journal for Environmental Rehabilitation and Conservation, Essence (ISSN: 0975-6272) 400-403, ‘Fly ash – A future material’, Seema Ubale, Shraddha Bansod, Swati Joshi.
- ii) **Books Published/ Edited: Nil**
- iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil**
- iv) **Guest lectures delivered: Nil**
- v) **Seminars / Conferences / Workshops attended: 03**
- 1) NAAC Awareness and Procedure to be followed under the Revised Assessment & Accreditation Framework’, 12 June 2020.
 - 2) XXI National Seminar on Ferroelectrics and Dielectrics 2021(NSFD - 2021), 10- 13 January 2021.
 - 3) National Seminar and Interactive Session on Artificial Intelligence & Cyber Security: New Insights for Innovation and Start-up Ventures, 21 June 2020.
- vi) **FDP attended: 01**
- 1) Two Day Faculty Development Programme on Innovations and Intellectual Property Rights, 20-21 July 2020.
- vii) **Awards/Recognitions received: 2 students received Ph.D.**
- 3) Ms. S. M. Bansod, Vide Notification No. RTMNU/Ph.D. (Cell)/16/1273 dated 04th February 2021.
 - 4) Mrs. S.V. Joshi, Vide Notification No. RTMNU/Ph.D. (Cell)/23/1904 dated 18th May 2021.
- b) **Dr. P. W. Ambekar**, Assistant Professor
- i) **Research Papers Published: Nil**
- ii) **Books Published/ Edited:**
- 1) A Book Chapter entitled, ‘Quantum Dots and Their Synthesis Processes’ in an International Book entitled, ‘Chemical Methods for Processing Nanomaterials’ edited by Dr. V. N. Singh, NPL New Delhi and published by Taylor & Fransis, CRC Press, Oca Raton; London; New York. (March 2021), ISBN 9780367085889. <https://doi.org/10.1201/9780429023187>
 - 2) Applied Physics- A complete textbook for BE- Sem-I, Published by Alliance & Company, Nagpur (Feb., 2021). ISBN 9788195177240.
- iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):**

- iv) **Guest lectures delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended: Conference Papers Presented:** 02
 - 1) Participated In The 26th International Conference of International Academy of Physical Sciences On Advance In Physics Held At Gondwana University, Gadchiroli During December 18-20, 2020 And Presented A Paper. Title: Validation of Low-Cost Lithium Carbonate-Silica Gel Electrolyte System for Electrochemical Device Applications
 - 2) Organizational Participation in XXI National Seminar on Ferroelectrics and Dielectrics-2021 (NSFD-2021), organized by IQAC and Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University in collaboration with Dharampeth M P Deo Memorial Science College, Nagpur during 10-13 January 2021 and presented a paper entitled, "Charge transfer mechanism in KNbO₃ dispersed composites of monovalent alkali carbonate"
 - vi) **FDP attended:** 02
 - 1) Successfully completed 'The BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop' during June 17-21, 2020, organized by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India
 - 2) Participated in a National Level One Week Faculty Development Programme on Research Methodology organized by Kamla Nehru Mahavidyalaya, Nagpur during April 26- May 01, 2021.
 - vii) **Awards/Recognitions received:** Nil
- c) **Dr. Mrs. Archana Deshpande**, CHB approved by RTM Nagpur University
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest lectures delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards/Recognitions received:** Nil
- d) **Dr. Mrs. Nutan Satpute**, CHB approved by RTM Nagpur University
- i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest lectures delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards/Recognitions received:** Nil

- e) **Dr. Ms. Rukmini Kunghatkar**, CHB approved by RTM Nagpur University
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest lectures delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards/Recognitions received:** Nil

- f) **Dr. Ms. Sumedha Tamboli**, CHB approved by RTM Nagpur University
 - i) **Research Papers Published:** Nil
 - ii) **Books Published/ Edited:** Nil
 - iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
 - iv) **Guest lectures delivered:** Nil
 - v) **Seminars / Conferences / Workshops attended:** Nil
 - vi) **FDP attended:** Nil
 - vii) **Awards/Recognitions received:** Nil

15. **Students Achievements if any:** Nil

16. **Student Research Projects if any:** Nil

17. **Diversity of Students**

- i) **Total number of students enrolled:** 422
- ii) **Number of Students from home state:** 422
- iii) **Number of Students from other state:** Nil

18. **Student strength & Result Analysis:**

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	118	118	101	85.59%
B. Sc. Sem.-II	114	114	104	91.22%
B. Sc. Sem.-III	117	117	111	94.87%
B. Sc. Sem.-IV	117	117	111	94.87%
B. Sc. Sem.-V	187	187	183	97.86%
B. Sc. Sem.-VI	185	185	184	99.45%

19. **Student progression**

Student progression	Against % enrolled
UG to PG	50-60%
PG to M. Phil.	NA
PG to Ph.D.	NA

Ph.D. to Post-Doctoral	NA
Employed	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship/Self-employment	Nil

20. **Awards/Recognitions received by the students:** Nil
21. **Teaching methods adopted to improve student learning:** Nil
22. **Participation in Institutional Social Responsibility (ISR)and Extension activities:** Nil
23. **Creativity & Innovations if any:** Nil
23. **SWOC analysis of the department and Future plans:**
 - a) **Strength:**
 - i) Develops logical thinking and scientific reasoning ability of students
 - b) **Weaknesses:**
 - i) Depleting no. of regular faculties
 - c) **Opportunity:**
 - i) Preparing students for the competitive world
 - d) **Challenges:**
 - i) Retaining students no. and their interest in the subject
 - e) **Future planning:**
 - i) One or two short term certificate courses could be designed and run for students leading to their self-employment.

DEPARTMENT OF STATISTICS
Annual Report (2020-21)

1. Name of the department : Statistics
2. Year of Establishment : 1978
3. Names of Programmes /Courses offered : **No. of Certificates Course/s: 02**
(Certificate, UG, PG, M.Phil., Ph.D., UG: B. Sc.
Integrated Masters; Integrated Ph.D., etc.) PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Physics Statistics Mathematics (PSM)
 - ii) Statistics Mathematics Computer Science (SMCom)
5. **Names of Certificate Courses if any:**
 - i) Microsoft Excel Zero to Hero
 - ii) R Program Statistics course
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	-	-	-

8. Number of Teaching posts:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	03	00

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Ms. Asha Kayarwar	M. Sc.	Guest Lecturer (Ad-hoc)	NA	NA
2.	Ms. Pallavi Potbhare	M.Sc.	Guest Lecturer (Ad-hoc)	NA	NA
3.	Ms. Gayatri Wani	M.Sc.	Guest Lecturer (Ad-hoc)	NA	NA
4.	Ms. Manjiri Gajarlawar	M.Sc.	Guest Lecturer (Ad-hoc)	NA	NA

10. Number of academic support staff(technical)and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	01	-
2.	Lab. Attendant	02	01

11. Number of activities organized - Nil**12. Infrastructural Facilities:**

- i) **Laboratory:** Yes
- ii) **Library:** Yes
- iii) **E-books:** Nil
- iv) **ICT facilities:** Yes
- v) **Staff room:** Yes

13. Online Teaching assistance:

- a) **Google meet:** Yes
- b) **Google forms:** Yes
- c) **Zoom platform:** No
- d) **Microsoft team:** Yes

14. Faculty Profile:

- i) **Research Papers Published:** Nil
- ii) **Books Published/ Edited:** Nil
- iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil
- iv) **Guest Lectures Delivered:** Nil
- v) **Seminars / Conferences / Workshops attended:** Nil
- vi) **FDP Attended:** Nil
- vii) **Awards/Recognitions received:** Nil

15. Students Achievements if any: Nil**16. Student Research Projects if any:** Nil**17. Diversity of Students:**

- i) **Total number of students enrolled:** 113
- ii) **Number of Students from home state:** 113
- iii) **Number of Students from other state:** 00

18. Student strength &Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	32	32	32	100%
B. Sc. Sem.-II	32	32	30	94%
B. Sc. Sem.-III	31	31	31	100%
B. Sc. Sem.-IV	31	31	31	100%
B. Sc. Sem.-V	50	50	49	98%
B. Sc. Sem.-VI	50	50	50	100%

19. Student progression

Student progression	Against % enrolled
UG to PG	40-50%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <ul style="list-style-type: none"> ➤ Campus selection ➤ Other than campus recruitment 	Nil
Entrepreneurship/Self-employment	Nil

20. Awards/Recognitions received by the students: Nil

21. Teaching methods adopted to improve student learning: Nil

22. Participation in Institutional Social Responsibility (ISR) and Extension activities:

23. Creativity & Innovations if any: Nil

23. SWOC analysis of the department and Future plans

a) Strength:

i) The dedicated and devoted visiting faculties and the laboratory staff

b) Weaknesses:

i) No regular appointment has hampered the growth.

c) Opportunity:

i) Opportunities are many as the subject is very important in every sector and emerging as data science – a new field

d) Challenges:

i) Maintaining students' interest in the subject.

e) Future planning:

i) On getting a full-time regular faculty, new courses with data science could be started.

DEPARTMENT OF ZOOLOGY**Annual Report (2020-21)**

1. **Name of the department** : Zoology
2. **Year of Establishment** : 1970
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s:** 02
(Certificate, UG, PG, M.Phil., Ph.D.,
Integrated Masters; Integrated Ph.D., etc.)
UG: B. Sc.
PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved**
 - i) Chemistry Botany Zoology (CBZ)
 - ii) Chemistry Zoology Microbiology (CZM)
 - iii) Applied Physiology for B. Sc. (Home Science), Sem.-III & IV)
5. **Names of Certificate Courses if any:** 02
 - i) Vermicoposting and Vermiculturing
 - ii) Fresh Water Fish Culturing
6. **Collaborations / MoUs if any:** Nil
7. **Programme wise Annual/ semester/choice-based credit system:**

Sr. No.	Name of the Courses	Annual	Semester	CBCS
1.	B. Sc	-	Yes	-
2.	M. Sc.	-	-	-
3.	Certificate Courses	-	-	-

8. **Number of Teaching posts:**

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Assistant Professor	06	02

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. K. M. Paturkar	M. Sc., Ph.D.,	Assistant Professor & Head	5-2-2009	16 years
2.	Dr. Kishor Waghmare	M. Sc., Ph.D.	CHB, Approved by RTMNU	2020-21	NA
3.	Dr. Bharti Shrinivas	M.Sc. Ph.D	CHB, Approved by RTMNU	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	-	-
2.	Lab. Attendant	03	01

11. Number of activities organized: NIL**12. Infrastructural Facilities:**

- i) **Laboratory:** well-equipped laboratory (32'.6"x25'.6"), with LCD projector
- ii) **Museum:** (21'.10" x13'.9") with some rare and ample no. of specimens, Alizarin preparations, preserved dissected animals, models and charts, bones and human skeleton
- iii) **Departmental Library** with good no. of text books, reference books and donated books.
- iv) **Instrument room:** (12'.5"x 12)
- v) **Staff room:** (18" x9'10")
- vi) **Cabin of HOD:** (8'.6" x 9'x10")
- vii) **E-books:** Nil

13. Online Teaching assistance:

- a) **Google meet:** Yes

- b) **Google forms:** Yes
- c) **Zoom platform:** No
- d) **Microsoft team:** Yes
- e) **YouTube channel link:** No
- f) **Number of videos / lectures available on YouTube channel:** NA

14. Faculty Profile:

- a) **Dr. K. M. Paturkar**, Assistant Professor & Head of the Department

i) **Research Papers Published:** 01

- 1) “Comparative study of vermi-cast generated from flower waste and leaf waste” International Journal for Environmental rehabilitation and Conservation. 30 September 2020 ISSN:09756272XI(Sp2):38-41 (Paturkar Kirti; Kulkarni prasad; Shambharkar sahil

ii) **Books Published/ Edited:** Nil

iii) **Minor / Major Research Project (Sanctioned / Ongoing/ Submitted):** Nil

iv) **Guest Lectures Delivered:** Nil

v) **Seminars / Conferences / Workshops attended:** Nil

vi) **FDP attended:** 02

- 1) FDP on Advanced concepts for developing MOOC organized by Teaching learning center Ramanujan college, Delhi University under the aegis of MHRD Pandit Madan Mohan Malviy National Mission on Teachers and Teaching dated on 2nd July to 17th July 2020
- 2) FDP on Managing Online classes and co-creating MOOCS 3.0 organized by Teaching learning center Ramanujan college, Delhi University Teaching learning center Ramanujan college, Delhi University under the aegis of MHRD Pandit Madan Mohan Malviy National Mission on Teachers and Teaching 25th July to 10th August

vii) **Award recognition received:** Nil

- b) **Dr. Kishor Waghmare**, CHB approved by RTM Nagpur University

i) **Research paper published:** Nil

ii) **Book published Edited:** Nil

iii) **Minor/ major research project:** Nil

iv) **Guest Lectures Delivered:** Nil

v) **Seminars / Conferences / Workshops attended:** 21

- 1) “Short Term Course on Basics of Organic Farming” Organized by Department of Botany and IQAC, Athalye-Sapre-Pitre College (Autonomous), Devrukh, Dist: Ratnagiri, Maharashtra. On May 31 to June 06, 2020
- 2) “Environment and Biodiversity conservation” Organized by Shri. R.L.T. College of Science, Akola on 05/06/2020
- 3) “Apiculture” Organized by BP Arts SMA Science and KKC Commerce College Chalisgaon Jalgaon on 08/06/2020

- 4) “Filmmaking as a tool for Science communication” organized by Science Media Center (SMC) Indian Institute of Science Education and Research (IISER) Pune on Sept 14-18, 2020
- 5) “One Day National Workshop on National Education Policy 2020-Implementation Plan” Organized by Swami Ramanand Teerth Marathwada University, Nanded. On 1st Oct 2020
- 6) “Ayurved ki drushti se aadhunik kaal me dhanwantari swasthya ki upyuktata” Organized by PG Department of Sanskrut, RTM Nagpur University Nagpur on Jan 18-24 2021.
- 7) “Achieving excellence in higher education in India in the 21st century: challenges and opportunities” Organized by School of Business Studies and IQAC Sharda University on 03/06/2020
- 8) “Online Teaching Learning and Online Accreditation” Organized by K. K. Wagh Arts, Commerce, Science & Computer Science College Nashik on 4th June, 2020.
- 9) “Me and my role in environment protection and biodiversity conservation” Organized by D. D. Bhojar college of Arts and Science, Mauda, Nagpur on June 5, 2020
- 10) “COVID-19 Outbreak: A Socio-Economic Perspective” Organized by Departments of Sociology of Rajkumar Kewalramani Kanya Mahavidyalaya and Dr. Madhukarrao Wasnik P.W.S. Arts and Commerce College, Nagpur on 06/06/2020
- 11) “Recent studies on Biodiversity conservation climate change and ecosystem management” Organized by Sangola College Sangola Solapur on 07/06/2020
- 12) “E-Teaching & E-Learning as an Evolving Pedagogy in Education-Issues and Challenges” Organized by DR. AMBEDKAR COLLEGE DEEKSHABHOOMI, NAGPUR on June 09, 2020
- 13) “NAAC Awareness and Procedure to be followed under the Revised Assessment & Accreditation Framework” Organized by DR. AMBEDKAR COLLEGE DEEKSHABHOOMI, NAGPUR June 12, 2020
- 14) “National Webinar on Microbes - The great survivors 2020” Organized by VHN Senthikumara Nadar College Virudhunagar on 12/06/2020
- 15) “Tax Planning and Investment Strategies” Organized by ST. ALOYSIUS’ INSTITUTE OF TECHNOLOGY Jabalpur on 13/06/2020
- 16) “Role of Bees as a Pollinator and its conservation” Organized by PG Department of Zoology, Vidyabharti College Seloo and Department of Biotechnology, New Arts Commerce and Science college Wardha on 29/08/2020
- 17) “Impact of COVID-19 Pandemic on Vector Borne Diseases” Organized by CSIR-NEERI Nagpur 29/12/2020
- 18) “International Infothon Conclave – 2K21 on Research Publication” Organized by Thakur college of science and commerce IQAC & Depts of

IT & DS in association with UDIT, University of Mumbai on 27th February 2021.

- 19) "Impact of COVID-19 on World: Problems, Challenges and Opportunities" Organized by Narayanrao Rana Mahavidyalaya, Badnera, Amravati. On 15th June 2020
- 20) "COVID – 19: Crisis, Effects, Challenges and Innovations" Organized by Faculty of Humanities, Commerce and Management Annasaheb Gundewar College, Nagpur on June 16-17 2020
- 21) "Fisheries Resources and future fisheries" Organized by Department of Zoology Arignar Anna Govt Arts College, Cheyyar, Thiruvannamala Tamilnadu on 13/09/2020

vi) FDP attended: 01

- 1) Modern Teaching Evaluation and Research Methods, under UGC Scheme STRIDE Component – 1 (research capacity building) Organized by Vinakrao Patil Mahavidyalaya Vaijapur Aurangabad on 02-07 June, 2020

vii) Award recognition received: Nil

c) Dr. Bharati Shrinivas CHB approved by RTM Nagpur University

i) Research Papers Published: Nil

ii) Books Published/ Edited: Nil

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lectures Delivered: Nil

v) Seminars / Conferences / Workshops attended: 04

- 1) Attended and participated in National Level Webinar on " ACHIEVING EXCELLENCE IN HIGHER EDUCATION IN INDIA IN THE 21ST CENTURY: CHALLENGES AND OPPORTUNITIES" organized by SCHOOL OF BUSINESS STUDIES, & IQAC, SHARDA UNIVERSITY on 3rd June 2020.
- 2) Attended the National Level Webinar on " Energy and Environment: Challenges & Opportunities organized by Department of Basic Sciences & Humanities, Maharashtra Institute of Technology, Aurangabad on 5th June 2020.
- 3) Webinar on "Dekho Apna Desh Episode70: Winter in Kolkata conducted by Ministry of Tourism and My Government on 2nd January 2021.
- 4) Short Term Course on Basics of Organic Farming organized by Department of Botany and IQAC Athalye-Sapre-Pitre College, Devrukh, Ratnagiri, Maharashtra from 31st May to 6th June 2020.

vi) FDP attended: Nil

vii) Awards/Recognitions received: Nil

15. Students Achievements if any: Nil

16. Student Research Projects if any:

- i) '*Analysis of nutritive elements along with soil carbon from various vermicasts generated from various wastes*'

17. Diversity of Students:

- i) **Total number of students enrolled:** 266
- ii) **Number of Students from home state:** 266
- iii) **Number of Students from other state:** 00

18. Student strength & Result Analysis:

Name of the Semester	Enrolled Students	Appeared Students	Pass students	Pass percentage
B. Sc. Sem.-I	71	71	67	94.36 %
B. Sc. Sem.-II	71	69	68	98.55%
B. Sc. Sem.-III	81	81	78	96.3%
B. Sc. Sem.-IV	81	81	81	100%
B. Sc. Sem.-V	114	114	114	100%
B. Sc. Sem.-VI	114	114	113	99.12%

19. Student progression:

Student progression	Against % enrolled
UG to PG	40-50%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed:	Nil
➤ Campus selection	
➤ Other than campus recruitment	
Entrepreneurship /Self-employment	Nil

20. Awards / Recognitions received by the students: Nil

21. Teaching methods adopted to improve student learning:

- i) Use of power point presentation, videos u-tube for several topics.

22. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

23. Creativity & Innovations if any: Nil

23. SWOC analysis of the department and Future plans:

a) Strength:

- i) Museum adequate no. of rare specimens, life cycles, embryos, skeleton, loose bones
- ii) Separate departmental library with good no. reference books/text books.

- iii) ICT facility in the laboratory.
- iv) Two certificate courses run by the department.
- b) **Weaknesses:**
 - i) Inadequate teaching and non-teaching staff.
 - ii) Lack of some advanced laboratory equipment.
- c) **Opportunity:**
 - i) MOU/linkages with different organizations.
- d) **Challenges:**
 - i) To run all activities with least no. of staff.
- e) **Future planning:**
 - i) Installation of Zoological society
 - ii) Different environment friendly in campus activities like installation of bird's nest in campus, fresh water fish culturing, vermicomposting Dragonfly rearing
 - iii) Guest lectures /workshops for students.
 - iv) Curriculum based activities
 - v) Sickle cell anemia detection camp

DEPARTMENT OF PHYSICAL EDUCATION

Annual Report (2020-21)

1. **Name of the department** : Physical Education
2. **Year of Establishment** : 24/06/1968
3. **Names of Programmes / Courses offered** : **No. of Certificates Course/s:** Nil
(Certificate, UG, PG, M.Phil., Ph.D., UG: Nil
Integrated Masters; Integrated Ph.D., etc.) PG: Nil
4. **Names of Interdisciplinary courses and the departments/units involved:** NA
5. **Names of Certificate Courses if any:** Nil
6. **Collaborations / MoUs if any:** 01
i) Collaboration with Ku. Pralisha Patil for Archery Club.
7. **Programme wise Annual/ semester/choice-based credit system:** NA
8. **Number of Teaching posts:**

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Professor	-	-
2.	Associate Professor	-	-
3.	Director of Physical Education	01	Nil

9. Teaching Faculty:

Sr. No.	Name of faculty	Qualification	Designation	Date of Appointment	No. of Years of Experience
1.	Dr. Rahul D. Kalode	M.P.Ed, M.A. B.Ed, Ph.D., NET	Honorary CHB (Lecturer Junior College)	2020-21	NA

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Name of Post	2020-21	
		Sanctioned	Filled
1.	Lab. Assistant	-	-
2.	Lab. Attendant	01	Nil

11. Number of activities organized: 01

- 1) One day National Webinar on “Stress Management strategies for competition” In collaboration with Krida Bharti Vidarbha Prant, Nagpur District Amateur Association, IQAC on 5th October, 2020.
- 2) Regular Practice of Archery and Boxing.
- 3) Every Saturday Archery study club organized online theory classes for archery players on zoom platform.

12. Infrastructural Facilities:

i) Mini Gym:

- i) Provided with free indoor facilities

ii) Ground Facility:

- i) Volleyball, Basketball, Archery Arena, Chess, Table-Tennis, Carrom, Small Football Ground, Kabaddi ground, Kho-Kho ground, Open Boxing practice

iii) Library: Yes

iv) E-books: Nil

v) Staff room: 01

13. Online Teaching assistance:

i) Google meet: No

ii) Zoom platform: Yes

14. Faculty Profile:

e) Dr. Rahul D. Kalode, In-charge

i) Research Papers Published: Nil

ii) Books Published/ Edited: Nil

iii) Minor / Major Research Project (Sanctioned / Ongoing/ Submitted): Nil

iv) Guest Lectures Delivered: 01

- 1) Delivered guest lecture on occasion of International Chess Day, organized by SFS College, Seminary Hills, Nagpur on 19th January, 2001

v) Seminars / Conferences / Workshops attended: 01

- 1) National Webinar On “Importance of Fitness During & After COVID-19 Pandemic” Organized by VMV COMMERCE JMT ARTS & JJP SCIENCE COLLEGE Wardhaman Nagar, Nagpur & Department Of Sports & Physical Education Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur on August 5th, 2020

vi) FDP attended: Nil

vii) Awards / Recognitions received: Nil

15. Students Achievements if any:

- 1) Ku. Janhvi Kadu B.Sc.-I Home Science bagged 03 Silver Medal in District level Roller Skating competition and 01 Silver and 02 Bronze Medal in State level Roller Skating Competition held at Mumbai 2020-21.

16. Student Research Projects if any: Nil

17. Diversity of Students:

- i) Total number of students enrolled: NA
- ii) Number of Students from home state: NA
- iii) Number of Students from other state: NA

18. Student strength & Result Analysis: NA

19. Student progression: NA

20. Awards / Recognitions received by the students: Nil

21. Teaching methods adopted to improve student learning: Nil

22. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

23. Creativity & Innovations if any: Nil

23. SWOC analysis of the department and Future plans:

a) Strength:

- i) Spacious ground, around 5600 sq.mt. (1.38 acres)

- ii) Basket-ball, volley ball, archery arena, Kabaddi, Kho-Kho, small football lawn playing facility on ground.
- iii) Facilities like chess, carrom, table-tennis, etc., in indoor games
- b) Weaknesses:**
 - i) Full time post of Director of Physical Education is vacant.
 - ii) No attendant in the department
 - iii) Lack of Boys and girls changing room
- c) Opportunity:**
 - i) Sports person are benefitted in admissions in sports quota.
 - ii) Many opportunities in services through sport quota.
 - iii) Health development
- d) Challenges:**
 - i) Difficult to manage different on campus games during college hours as the sports students are also engaged in their studies.
 - ii) Student faces changing difficulty as there is no changing room in the college.
- e) Future planning:**
 - i) Planning for Dharampeth Science college Sports Academy.
 - ii) Development of the overall in sports.
 - iii) Planning for the Multi-Gym facility.
 - iv) MOU with other sports clubs.