

**Mahatma Gandhi Arts, Science and Late N. P. Commerce College
Armori, Dist. Gadchiroli**

RESEARCH & INNOVATION COMMITTEE

M. G. ART'S, SCIENCE & LATE N. P. COMMERCE COLLEGE, ARMORI

ANNUAL REPORT-2022-23



Submitted By

Dr. Naresh D. Bansod & Dr. Satish Kola

Co-ordinator

Research & Development Committee

STRATEGIC RESEARCH PLAN FOR FACULTY AND STUDENT

FOR 2022-2023

BECOMING “GREAT” – RESEARCH THAT BETTERS SOCIETY

- ❖ To motivate the faculty to submit major and minor research projects from various funding agencies like the university grant commission (UGC), university etc.
- ❖ To encourage the faculty to organize workshops /seminar/conferences.
- ❖ To encourage faculty and students for publication of research papers in reputed journals, and in various international and national conferences.
- ❖ To inspire the faculty and student to undertake research activity like preparation of project.
- ❖ To encourage every department to establish society of their subject and under that arrange different innovative activities.
- ❖ To organize science exhibition on the occasion of science day.
- ❖ To organize a workshop on Intellectual Property Rights in the month of January 2021.
- ❖ To motivate the students and teachers to participate in AVISHKAR competition.
- ❖ Encourage faculty to take up consultancy services.
- ❖ To organize guest lecture on different topic with respective subject.
- ❖ To explore student to various research area by visiting nearby industries



“RIGHT PLACE FOR BRIGHT FUTURE”
MANOHARBHAI SHIKSHAN PRASARAK MANDAL ARMORI'S
**MAHATMA GANDHI ARTS, SCIENCE &
LATE NASARUDDINBHAI PANJWANI COMMERCE
COLLEGE**



**Research & Development Committee
Annual Plan**

Academic Year 2022-23

The Research & Innovation Committee is responsible for assisting the faculty in respect of the establishment and promotion of excellence in the Institute's research and development, and academic and research training activities. This includes the development, review and monitoring of achievements under the Research & Development. The committee also suggests the development and enhancement of the Institute's research capacities. Motivate all faculties to pursue research in their respective areas of expertise. The protection and commercialization of the Institute's intellectual property. Consultancy activities related to research and innovation.

Month	Activity
August: 2022-23	<ul style="list-style-type: none">• Meeting with committee members regarding the planning and implementation of annual plan.• Motivate faculty to quality research• Motivate faculty to publish good quality research articles and book/chapters in edited books
September: 2022-23	<ul style="list-style-type: none">• Motivate the faculty to apply for funding research project to various funding agencies
October: 2022-23	<ul style="list-style-type: none">• Review of published research articles paper, book etc.•
November: 2022-23	<ul style="list-style-type: none">• Start process for establishment of incubation center.• Motivate faculty to make MoU/Collaboration/Linkages with various government and non-government institutions, research labs etc. for conducting activities related to research, student exchange, faculty exchange, field visit, training etc.
January: 2022-23	<ul style="list-style-type: none">• Organize workshop/seminar on research methodology, IPR, Entrepreneurship• Organize science exhibition and prepare students and faculty for Avishkar
March :2022-23	<ul style="list-style-type: none">• Start process for publishing multidisciplinary book with ISSN number with help of Knowledge Resource Center.
April: 2022-23	<ul style="list-style-type: none">• Collection of published research articles, books, chapters in editated book, etc.• Preparation of annual report.

Activities of the committee:

Faculty members were encouraged to research publications and other research-related activities. Following are the details.

One Day Workshop
On
Research Methodology
(Academic Year: 2022-23)

Name of Committee/Portfolios /	Research and Development Committee
Activity organized	
Title of activity	A one-day workshop on research methodology
Date of activity organized	24/04/2023
Name of the Coordinator of the activity	1. Dr. N. D. Bansod 2. Dr. C. D. Mungmode
Place of Activity organized	Mahatma Gandhi Arts, Science & Late N.P. Commerce College, Armori
No. of students participated	-
No. of faculty participated	25

The objective of the Activity:

- **Opportunity to listen to research methodology experts.**
- **Update information about guidelines**
- **For smooth & and easy conduction of various research methodology**
- **No registration fee for attending the conference**

Brief Description: **One day workshop on research methodology organized by research and development committed, held at M. G. College Armori on 24/04/2023. The purpose of the workshop was to listen to a guide for the smooth & and easy conduction of various research methodologies. The mode of the conference was offline. Dr. Deviatee was the resource person for this workshop. The workshop was**

attended by 25 participants. The organizer of this conference was Principal Dr. L. H. Khalsa, Dr. Naresh D. Bansod and Dr. S. S. Kola was the convener of this conference.



Manoharbai Shikshan Prasarak Mandal Armori's
**Mahatma Gandhi Arts, Science and Late Nasaruddinbhai Panjwani
Commerce College**
Armori, Dist. - Gadchiroli (M.S.), India - 441208
NAAC Reaccredited with 'A' Grade

One Day Workshop
on
RESEARCH METHODOLOGY

Date: 24th April 2023

Invited Speaker



Dr. Devdatta Tare
Assistant Professor
Department of Commerce
Gondwana University, Gadchiroli.

Organizer

Dr. N. D. Bansod
Head
Research & Development Committee

Dr. C. D. Mungmode
Member
Research & Development Committee



Time: M 24-04-2023 09:56
Note: R and D Workshop

Powered by NoteCam





"RIGHT PLACE FOR BRIGHT FUTURE"
MANOHARIBHAI SHIRSHAN PRASARAK MANDAL, ARMORI'S

**MAHATMA GANDHI ARTS, SCIENCE &
LATE NASARUDDINBHAI PANJWANI COMMERCE COLLEGE**

ARMORI Dist. Gadchiroli (M.S.) 441 208
Affiliated to Gondwana University, Gadchiroli
Re-accredited by NAAC 'A' with 3.24 CGPA

PRINCIPAL
Dr. Lalsingh H. Khalsa
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Web: mgcollegearmori.ac.in
E-mail: mgcollege.armori@gmail.com

Letter No. MGC/ 262123

Date 20 /04/ 2023

Notice

Dear Sir/Madam,

Greeting, Research and Development Committee of Mahatma Gandhi Arts, science and Late, Nasaruddinbhai Panjwani Commerce College Armori Dist. Gadachiroli (M. S.). India 441208 is honored to invite you for participating in one day workshop on Research Methodology on 24th April 2023 at 10.00 am in IQAC room.

Dr. N. D. Bansod
Head

Research and Development Committee

Dr. C. D. Mungmode
Member

Research and Development Committee

PRINCIPAL
M.G. Arts, Science &
Late N.P. Commerce College
ARMORI, Dist. Gadchiroli



<https://www.facebook.com/mgcollegearmori/>



<https://www.youtube.com/channel/UCdoZyKXQ73InRcKqL8CPDZw>

ONE DAY WORKSHOP ON RESEARCH METHODOLOGY."

DATE : 24th Apr. 2023

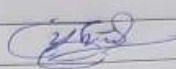

Mahatma Gandhi Arts, Science & Late N.P. Commerce College Armori, Dist. Gadchiroli

2022-23

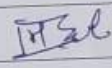
Sr.No.	Name of the Employees	Design.	Signature	Remarks
	Dr. L. H. Khalsa	Principal		
1)	Dr. R. M. Thombre	Asso. Prof.		
2)	Prof. M. K. Ramteke	Asso. Prof.	<i>[Signature]</i>	
3)	Dr. C.P. Dorlikar	Asst. Prof.		
4)	Dr. J. N. Papadkar	Asst. Prof.	<i>[Signature]</i>	
5)	Prof. S.B. Gedam	Asst. Prof.	<i>[Signature]</i>	
6)	Prof. Ms. S.T. Nagdeve	Asst. Prof.	<i>[Signature]</i>	
7)	Dr. D. V. Thakare	Asso. Prof.	<i>[Signature]</i>	
8)	Prof. D. M. Ghonmode	Asst. Prof.	<i>[Signature]</i>	
9)	Prof. S. M. Sontakke	Asst. Prof.	<i>[Signature]</i>	
10)	Dr. N. N. Meshram	Asso. Prof.	<i>[Signature]</i>	
11)	Dr. C. D. Mungmode	Asso. Prof.	<i>[Signature]</i>	
12)	Prof. P. S. Meshram	Asst. Prof.	<i>[Signature]</i>	
13)	Dr. V. P. Gorade	Asst. Prof.	<i>[Signature]</i>	
14)	Dr. V. I. Kahalkar	Asst. Prof.	<i>[Signature]</i>	
15)	Dr. M. M. Thaore	Asst. Prof.	<i>[Signature]</i>	
16)	Prof. P. S. Ganvir	Asst. Prof.	<i>[Signature]</i>	
17)	Dr. V. H. Raiwatkar	Asst. Prof.	<i>[Signature]</i>	
18)	Dr. G. M. Kadhav	Asst. Prof.	<i>[Signature]</i>	
19)	Prof. Ku. S. K. Mohurle	Asst. Prof.	<i>[Signature]</i>	
20)	Prof. G. W. Borkar	Asst. Prof.	<i>[Signature]</i>	
21)	Prof. A. P. Raut	Asst. Prof.	<i>[Signature]</i>	
22)	Dr. N.D. Bansod	Asst. Prof.	<i>[Signature]</i>	
23)	Dr. S.S. Kola	Asst. Prof.		
24)	Prof. Miss. S.B. Kumre	Asst. Prof.		
25)	Prof. V.P. Padole	Asst. Prof.		
26)	Prof. N.A. Borode	Asst. Prof.	<i>[Signature]</i>	
27)	Dr. K. N. Wasurke	Librarian		
28)	Shri. R. J. Hemke	Jr. Clerk		
29)	Shri. M. G. Tagade	Jr. Clerk		
30)	Shri. P.N. Ganvir	Lab. Assi.		
31)	Shri. M. B. Korwate	Lab. Assi.		
32)	Shri. B. B. Shende	Lab. Att.		
33)	Shri. K. D. Ramteke	Lab. Att.		
34)	Shri. J. M. Bodele	Lab. Att.		
35)	Shri. P. L. Dadmal	Lab. Att.		
36)	Ku. S. P. Katukale	Lib. Att.		
37)	Shri. K. M. Kuthe	Peon		
38)	Smt. S. M. Ghodichore	Peon		
39)	Shri. S. G. Thakare	Peon		
40)	Shri. D.G. Nimgade	Lab. Att.		

Kavita Kumbhagade MIB *[Signature]*

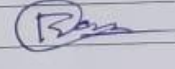
GRANTED SECTION UG

S.N.	NAME OF CANDIDATE	SUBJECT	CONTACT NO.	Signature
1	Mr. Khageshkumar M. Sahare	Marathi	7588806252	
2	Dr. Niteenkumar J. Ramteke	Marathi	9767305657	
3	Mr. Pundlik M. Vyahadkar	History	7588772961	
4	Miss. Vibhawari Nakhate	Home Eco.	9834254641	
5	Miss. Urmila J. Gajpure	Home Eco.	8390386300	
6	Mr. Mahesh K. Kahale	Chemistry	8830363934	
7	Miss. Sonal M. Kurzekar	Chemistry	8329584926	
8	Mr. Dhammdip W. Sahare	Zoology	9284908035	
9	Mr. Arpit A. Kharwade	Mathematics	9370150965	
10	Miss. Dilka P. Wanmali	Geology	8007160559	
11	Mr. Pranay G. Fulzele	Geology	7588830735	
12	Miss. Sayali L. Jambhulkar	Commerce	7304734285	
13	Mr. Ashwinkumar A. Meshram	Commerce	9764805443	
14	Mr. Tejram Y. Gaydhane	Commerce	9921586168	
15	Mr. Jitendra H. Raut	Commerce	9595647784	

NON-GRANTED SECTION UG

1	Mr. Sunil D. Chute	Computer Sci.	9665884060	
2	Miss. Kavita D. Khobragade	Microbiology	9420143849	
3	Miss. Shraddha L. Ghongade	Microbiology	8767773480	
4	Miss. Pranali K. Garode	HOME SCIENCE	9421256565	
6	Ms. Mina Upadhye	INDIAN MUSIC	9049417834	
7	Miss. Prerana Lonare	Indian Music	9403344032	

NONGRANTED PG

1	Mr. Sanjay M. Giradkar	History	8007682095	
2	Miss. Bhagyashri M. Sorte	Sociology		
3	Miss. Megha L. Sorte	Sociology		
4	Miss. Revati Y. Sahare	Economics	8055873867	
5	Mr. Ravi Barskar	History		
6	Miss. Riya Kapkar	Geology		
7	Mr. Pappu S. Deshpande	D.D.	9158395610	
8	Miss. Sarita R. Nijam	D.D.	9423752348	
9				
10				
11				



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LIST OF TEACHER-WISE RESEARCH PAPERS/BOOKS PUBLISHED DURING THE ACADEMIC YEAR 2022-23

Sr. no.	Name of Teacher	Name of the department	Title of Research Paper Name of the department	Journal & Its issue in which publication /conference /webinar details	Whether UGC care listed Yes/NO	Month of Publication	ISBN/ISSN NO./doi	Impact Factor if any
Research Paper								
1	Dr. L. H. Khalsa	Mathematics	Thermally-Induced Stresses in a Pre-Buckling State of a Circular Plate within the Fractional-Order Framework	International Journal of Thermodynamics Vol.26(2):1-10	Yes	April 2023	DOI: 10.5541/ijot.1170364	2.2
2.	Dr. L. H. Khalsa	Mathematics	Time-Fractional Cattaneo-Type Thermoelastic Interior-Boundary Value Problem Within A Rigid Ball	International Journal of Thermodynamics (IJoT) Vol 26 (No. 1), 037-046, 2023	Yes	Received 2 September 2022, Revised 2 November 2022, Accepted 15 December 2022	doi: 10.5541/ijot.1170335 ISSN 1301-9724 / e-ISSN 2146-1511	2.2
3	Dr. L. H. Khalsa	Mathematics	Thermoelastic Analysis For A Thick Plate Under The Radiation Boundary Conditions	International Journal of Thermodynamics	Yes,	April 2023	DOI: 10.5541/ijot.1170342	2.2

	Dr. L. H. Khalsa	Mathematics	Hygrothermoelastic analysis of non-simple nano-beam induced by ramp-type heating	Archive of Applied Mechanics	Yes,	Received: 25 January 2023 / Accepted: 9 May 2023	https://doi.org/10.1007/s00419-023-02444-x	2.467
4	Dr. C.D. Mungmode	Physics	Peculiar synthesis and photoluminescence characterization of series of $(Ca_{2-x})PO_4Cl:xEu^{2+}$ phosphor. Page No.: 1065–1070	Journal of Optics Vol. 51, Issue 4	Yes	Dec. 2022	ISSN No. 0972-8821	Cite Factor - 1.572
5	Dr. P. S. Ganvir	Geology	Hydro-geochemical elucidation and its implications in the Wardha valley coalfields of central India	IOP Conference Series: Earth and Environmental Science Vol.1032_012015	Yes (Group - II)	07/2022	1755-1315 https://doi.org/10.1088/1755-1315/1032/1/012015	Scopus Indexed (Cite Score – 0.8: 2022)
6	Dr. P. S. Ganvir	Geology	HYDRO-GEOCHEMISTRY AND HUMAN HEALTH: A BRIEF REVIEW.	International Journal of Food and Nutritional Sciences Vol.11, Issue 11 pp. 223-227	Yes (Group - I)	12/2022	2320-7876 Journal link - https://www.ijfans.org/uploads/paper/e3ec676d81e47aa28be48193d0329f3e.pdf	NA
7	Dr. P. S. Ganvir	Geology	An Evaluation over the Methodological Efficiency in Groundwater Contamination Studies: A Case Study from Wardha Valley Coalfields.	International Journal of Advance and Applied Research Vol.4 No.3, pp. 37-44	No	Jan – Feb 2023	2347-7075 https://doi.org/10.5281/zenodo.7597807	NA
8	Dr. P. S. Ganvir	Geology	Hydro-Geochemical Plots: An Efficient Tool for the Elucidation of Groundwater Chemistry	International Journal of Innovative Science and Research Technology Vol.8, Issue 2,	No	Feb. 2023	2456-2165 https://doi.org/10.5281/zenodo.7645241	NA

				pp. 95-100				
9	Dr. P. S. Ganvir	Geology	A Systematic Approach to Approximate the Sources of Contaminants in the Groundwater Studies.	IOSR Journal of Applied Geology and Geophysics Vol.11, Issue 2 Series - I, pp. 23-28	No	Mar.-Apr. 2023	2321-0990 https://doi.org/10.9790/0990-1102012328	NA
10	Dr. C. P. Dorlikar	Geology	Petrographic studies of basic and Ultra-basic rocks of adjoining Lahn river of Nandgaon area of Gondpipri Block, Chandrapur District, Western Bastar Craton, Central India	IOSR Journal of Applied Geology and Geophysics (IOSR-JAGG) (Volume 11, Issue 1 Ser. I), PP 30-34)	No	Jan-Feb 2023	2321-0990	NA
11	Dr. C. P. Dorlikar	Geology	Status Report of Air Pollution with special reference to their major issues and challenges in Indian Metropolitan City	International Journal Fundamental & Applied Research Website: www.ijfar.org (Vol.10 Issue 01 pp-05-08)	No	Jan 2023	2320-7973	NA
12	Dr. Seema T. Nagdeve	Botany	STUDY OF INDOOR ENVIRONMENT OF RICE MILL INDUSTRY AT DESAIGANJ (WADSA), IN RESPECT TO AEROMYCOFLORA	INTERNATIONAL JOURNAL OF RESEARCHES IN BIOSCIENCES, AGRICULTURE AND TECHNOLOGY (I J R B A T, Issue (XI) Vol (I) Jan 2023: 273-278)	No	Published: 30.01.2023	e-ISSN 2347 – 517X http://doi.org/10.29369/ijrbat.2023.010.1.0046	NA
13	Dr. Vasanta I. Kahalkar	Botany	Study of medicinal plants used by local people of Armori Taluka, Gadchiroli District, (M. S.) India.	“Journal of Research and Development” A Multidisciplinary international level referred and peer review journal, Volume -14 Issue -17	No	July 2022	ISSN-2230-9578	-
14	Dr Jayesh Papadkar	Zoology	HYDRO-GEOCHEMISTRY	International Journal of Food and Nutritional	Yes (Group - I)	12/2022	2320-7876 Journal link -	NA

			AND HUMAN HEALTH: A BRIEF REVIEW.	Sciences Vol.11, Issue 11 pp. 223-227			https://www.ijfans.org/uploads/paper/e3ec676d81e47aa28be48193d0329f3e.pdf	
15	Dr. Vijay H. Raiwatkar	Marathi	चरित्र-आत्मचरित्र : स्वरूप व संकल्पना	वाङ्मयप्रकार : स्वरूप व संकल्पना, राघव प्रकाशन, नागपूर	-	Jun 2022	978-93-936773-06-0	-
16	Dr. Vijay H. Raiwatkar	Marathi	. तुकडोजी महाराज यांच्या अभंगातील अध्यात्म आणि सामाजोपदेश	राष्ट्रसंतांचे पार्ईक, राघव प्रकाशन, नागपूर	-	July 2022	978-93-93673-08-4	--
17	Dr. Vijay H. Raiwatkar	Marathi	विजय तेंडुलकर यांचे गिधाडे नाटक	साहित्यास्वाद, प्रशांत प्रकाशन, जळगाव	-	May 2023	978-81-19120-06-2	-
18	Parag S. Meshram	Geography	A Geographical Study of Crop Diversification of Chandrapur District - 2017 – 2018	International Journal of Advance and Applied Research - Volume -09 No - 05	Peer Reviewed	May – June 2022	ISSN – 2347-7075	IF – 7.32
19	Parag S. Meshram	Geography	Geographical analysis of cotton and its proportion under total crops and cash crops – 2000 -2020	International Journal of Food and Nutritional Sciences - UGC Care Listed (Group -I) Journal -Volume -11, Issue	UGC Care Listed	13, Nov-2022	ISSN – 2319-1775	---
20	Dr. Vijay P. Gorde	Geography	A Geographical Study of Crop Diversification of Chandrapur District - 2017 – 2018	International Journal of Advance and Applied Research - Volume -09 No - 05	Peer Reviewed	May – June 2022	ISSN – 2347-7075	IF – 7.32
21	Dr. Vijay P. Gorde	Geography	Geographical Study of Orange Cultivation in Vidarbha -2021	International Journal of Advance and Applied Research - Volume -II Issue -22	Peer Reviewed	July-Aug 2022	ISSN – 2347-7075	IF – 7.32
22	Dr. Vijay P. Gorde	Geography	A Geographical Study of Orange Cropping Pattern in Amravati District – 2000-01 to 2020-21	Sanshodhak - UGC Care Listed Journal	UGC Care Listed	Dec- 2023	- ISSN –2394-5990	---
23	Dr. Nomesh Meshram	English	Shakespeare's Craftsmanship in the Portrayal of Characters	International Journal of Novel research and development Volume 7, Issue 12	UGC Care Listed	December 2022	ISSN-2456-4184	-

24	Dr. Kishor N. Wasurke	Library	Role of learning resources center in Holistic Development of students in the context of National education policy of India	Sanshadhak		March 2023	ISSN -2394-5990	-
BOOK								
Chapter in Edited Book								
1	Dr. C.D. Mungmode	Physics	Synthesis and photoluminescence in Eu ²⁺ activated alkali/alkaline earth halides and chlorophosphate blue phosphors Page no. 135 - 153	Phosphor Handbook: Process, Properties and Applications, Woodhead Publishing, Elsevier Ltd., U.K.	NA	Feb. 2023	978-0-323-90539-8	NA
2	Dr. P. S. Ganvir	Geology	WATER QUALITY ASSESSMENT WITH REFERENCE TO SOME HEAVY METALS IN AND AROUND SHIVAJINAGAR, MAJRICOALFIELDS, MAHARASHTRA	Book Title - Sustainable Resource Management: Key Issues, Opportunities and Challenges Publisher - ER Publication	NA	09/2023	978-81-951756-0-4 Publication Link - https://www.erpublishations.com/Sustainable-Resource-Management-Key-Issues-Opportunities-and-Challenges-175-book.htm	NA
3	Dr. Vijay P. Gorde	Geography	Population Growth: Social, economic, Geographical, Cultural & Political Consequences	Ramanshil Publication Aurangabad	National Level Peer-Reviewed Book Chapter.	Nov. 2022	, ISBN NO: 978-81-951551-2-5	NA
4.	Dr. S. S. Kola	Chemistry	ULTRASOUND PROMOTED ONE-POT SYNTHESIS OF SUBSTITUTED PYRAZOLES	Educational Publisher	NA	17/04/2023	ISBN978-90005-44-4	NA

5.	Dr. S. S. Kola	Chemistry	“AN EFFICIENT SYNTHESIS OF SOME NOVEL BIOACTIVE 5OXO-IMIDAZOLINE DERIVATIVES COMPRISING QUINOLINE BENZOFURAN AND PYRAZOLE MOIETY”	Educational Publisher	NA	17/04/2023	ISBN978-90005-44-4	NA
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