

Annual Report
Research and Development Committee
M.G. Arts, Science & Late N.P. Commerce College, Armori
2017-18

The role of research committee is to maintained research interest and advises on all matters related to research and research degree within the college. The committee provided valuable information to the faculty such as guidelines for major and minor research projects and motivate for research competition like *Aviskar*. It is also encouraged and developed a research culture and innovative work. The composition of the committee is as follows:

Sr. No.	Name	Designation	
1	Dr. L.H. Khalsa	Principal	Chairman
2	Dr. C.D. Mungmode	Assistant Professor, Dept. of Physics	Member
3	Dr. V.I. Kahalkar	Assistant Professor, Dept. of Botany	Member

The Members met 4 times in the session 2017-18 between July-2017 to March-2018.

Major decisions taken are:-

- Prepared annual plan for the academic session 2018-19.
- To collect research paper from faculty published in journal and proceeding in this academic session.

Research achievement:-

In the faculty we have 07 Research supervisor, 14 members with Ph.D. Degree, 05 with M.Phil. Degree. We are happy to report that the research activities were progressed continuously during this year. Two faculties, Dr. Jayesh Papadkar and Dr. Chhagan Mungmode, were award Ph.D., Two

faculty members submitted their thesis, one faculty member, Prof. Gajanan Borkar, registered for Ph.D. degree, one faculty, Prof. S.B. Gedam, attended short term course in Research Methodology and one faculty, Prof. P.S. Ganvir, registered for six month Pre-Ph. D. course Programme.

The faculty also took keen interest in seminars and conferences. During this year 33 research papers were published in UGC referred journals, 01 in Conference Proceeding, 06 papers were presented in conferences/seminars and 31 conferences/seminar/workshop were attended by the faculty members.

Dr. Vasanta I. Kahalkar Prepared digital herbarium published by Forest Department, Navegaon-Nagzira Tiger Reserve. Four Text Book authored by Dr. L.H. Khalsa, Dr. Mrs. V.P. Wanjari, Prof. I.A. Khan and Dr. C.D. Mungmode were published.

List of UGC Approved Journals is produced and kept on IQAC Desktop.

The details of research activities of the college during 2017-2018 are as follows:

1. Faculty from the institution who are Ph.D. Supervisors:

Sr. No.	Name of the faculty	Department	Recognized by	Area of Research
1.	Dr. L.H. Khalsa	Mathematics	GUG, RTMNU	<ul style="list-style-type: none"> • Boundary Value Problem In Heat Conduction (AMS 34B05, 34B07), • Partial differential equations (AMS 35J25, 35J67, 35K05, 35K20, 35K35, 35K50), • Integral transforms (AMS 44A05, 44A10), • Special functions (AMS 33C10), Thermoelasticity
2.	Dr. Mrs. V.P. Wanjari	Marathi	GUG	<ul style="list-style-type: none"> • Feminism
3.	Dr. R.M. Thombre	Physics	GUG, RTMNU	<ul style="list-style-type: none"> • Optical & Electrical Properties of Binary and Ternary thin Film on Glass Substrate, CBD (Chemical Bath Deposition) spray-pyrolysis.

				<ul style="list-style-type: none"> • Crystal Growth, Microwaves studies
4.	Dr. R.V. Ghonmode	History	GUG	<ul style="list-style-type: none"> • Maratha History
5.	Dr. R.N. Chavhan	Zoology	GUG	<ul style="list-style-type: none"> • Limnology • Mammalian Reproductive Physiology • Toxicology
6.	Dr. U.T. Kamble	Commerce	GUG	<ul style="list-style-type: none"> • Economics, Management & Commerce
7.	Dr. C.P. Dorlikar	Geology	GUG	<ul style="list-style-type: none"> • Igneous Petrology

2. Ph. D. awarded in last academic session:

Sr. No.	Name of Faculty	Subject	Topic	Year of Ph.D. award
1.	Dr. J. N. Papadkar	Zoology	Light Microscopy and Electron Microscopic Endocrine Gland Study of <i>Pteropus giganteus giganteus</i> during Reproductive Cycle	2017
2.	Dr. C.D. Mungmode	Physics	Synthesis and Characterization of Eu^{2+} Activated Phosphors for Solid State Lighting	March-2018

3. Faculty Participation in Conference/Seminars/Workshops:

International Conf./Sem.	National Conf./Sem.	State/University Conf./Sem.	National Workshops	State/University Workshops
05	13	00	01	12

4. Total number of publication by the faculty:

International Journal	National Journal	Int. Conference Proceedings	Nat. Conference Proceedings	Total
31	02	00	01	34

5. Minor Research Projects Ongoing:

02 Minor Research Projects are ongoing and 01 completed.

Sr. No.	Name of Investigator	Subject	Major /Minor	Funding Agency	Amount Sanctioned	Status
1	Dr. C.P. Dorlikar	Geology	Minor	UGC	3,80,000	Ongoing
2	Mr. I.A. Khan	Mathematics	Minor	UGC	1,10,000	Ongoing
3	Dr. V.I. Kahalkar	Botany	Minor	Forest (Wildlife) Dept. M.S.	2,50,000	Completed

6. Books Published with ISBN/ISSN: 04 Books and 06 Faculty Members

Sr. No.	Name of Author	Title of the Book	Publisher	ISBN No.	Remark
1.	Dr. L.H. Khalsa and Prof. I.A. Khan	Mathematics B.Sc. Sem. I (CBCS)	Himalaya Publishing House, Nagpur	978-93-5273-455-9	Co-Authored
2.	Dr. L.H. Khalsa and Prof. I.A. Khan	Mathematics B.Sc. Sem. II (CBCS)	Himalaya Publishing House, Nagpur	978-93-5273-713-0	Co-Authored
3.	Dr. C.D. Mungmode	Physics – FY B.Sc. Semester II (CBCS)	Himalaya Publishing House, Nagpur	978-93-5299-034-4	Co-Authored
4.	Dr. V. P. Wanjari	Sahitya Sarita Compulsory Marathi B. A. I	Raghav Publication & distributor Nagpur - 32	978-93-83132-51-5	Co- Authored

7. Research Oriented Course Attended: 02

Sr. No.	Name of Faculty	Subject	Course Name & Place	Duration
1.	S. B. Gedam	Physics	Short Term Course in Research Methodology, HRDC, RTMNU, Nagpur	One Week 28 Aug- 02 Sept, 2017
2.	P.S. Ganvir	Geology	Pre-Ph.D. Course, Pandit Ravishankar Shukla University, Raipur	Six Month, Feb. 2018 to till Date

8. Faculty Served as Resource Person:

Sr. No.	Name of Faculty	Subject	Place	Duration
1.	Dr. V.I. Kahalkar	Botany	Training camp of Forest Guides at Agarzari – Tadoba Andheri Tiger Reserve	13-14 July, 2017
2.	Dr. V.H. Raiwatkar	Marathi	Workshop on Marathi Language at Taluka Court, Armori	9 January, 2018

Annexure

1. Research Publication in International/ National Journals:

Sr. No.	Name of Faculty	Title of the Paper	Name of the Journal & level	Details	Indexing Agency & Impact Factor	ISSN No.
1.	Dr. L.H. Khalsa	Quasi-Static Transient Thermal Stresses in an Elliptical Plate due to Sectional Heat Supply on the Curved Surface over the Upper Face	International, Journal of Applied and Computational Mechanics.	Vol. 4 (1), 2018, pp. 27-39 DOI: 10.22055/JACM.2017.22068.1123	UGC Approved	2383-4536
2.	Dr. L.H. Khalsa	Integral Transform Approach For Solving Dynamic Thermal Vibration in the Elliptical Disc	International, Journal of Thermal Stresses, (Taylor & Francis)	Online Published- 28 June 2017, pp. 1-18 DOI: 10.1080/01495739.2017.1285215	UGC Approved, I.F. 1.211 (Thomson Reuters 2016)	Print: 0149-5739 Online: 1521-074X
3.	Dr. L.H. Khalsa	Quasi-Static Transient Thermal Stresses in a Thick Annular Plate Subjected to Sectional Heat Supply	Annals of Faculty Engineering Hunedoara – International Journal of Engineering	Tome XIV (2016) Fascicule 3	UGC Approved	1584-2665
4.	Prof. I.A. Khan	Quasi-Static Transient Thermal Stresses in an Elliptical Plate due to Sectional Heat Supply on the Curved Surface over the Upper Face	International, Journal of Applied and Computational Mechanics.	Vol. 4 (1), 2018, pp. 27-39 DOI: 10.22055/JACM.2017.22068.1123	UGC Approved	2383-4536
5.	Dr. R.M. Thombre	Structural and Optical Properties LaS Thin Films Prepared by Spray Pyrolysis Technique	Int. J. Innovative Research in Science, Engineering and Technology	Vol. 6 (7), July 2017 pp. 12686 – 12688 DOI: 10.15680/IJRSET.2017.0607033	UGC Approved	Print: 2347-6710 Online: 2319-8753

6.	Prof. G.P. Juare	Octahedral Molecular Sieve (K-OMS-2) Supported Metal Nanoparticles For Catalysis	Int. J. Current Engineering and Scientific Research	Vol. 5 (1), 2018 pp. 393-395	UGC Approved , DRJI, Google Scholar, ROAD, Cite factor I.F. 3.241	Print: 2393-8374 Online: 2394-0697
7.	Prof. S.M. Sontakke	Octahedral Molecular Sieve (K-OMS-2) Supported Metal Nanoparticles For Catalysis	Int. J. Current Engineering and Scientific Research	Vol. 5 (1), 2018 pp. 393-395	UGC Approved, DRJI, Google Scholar, ROAD, Cite factor I.F. 3.241	Print: 2393-8374 Online: 2394-0697
8.	Dr. C.D. Mungmode	Synthesis and Photoluminescence Properties of High Brightness Eu ³⁺ Doped Li _{0.5} Al _{0.5} Mg ₂ (MoO ₄) ₃ Red Phosphor	Int. J. Current Engineering and Scientific Research	Vol. 5 (1), 2018 pp. 298-303	UGC Approved , DRJI, Google Scholar, ROAD, Cite factor I.F. 3.241	Print: 2393-8374 Online: 2394-0697
9.	Dr. C.D. Mungmode	Synthesis and Optical Properties of Yb ³⁺ Doped Li ₃ Ba ₂ La ₃ (MoO ₄) ₈	Int. J. Current Engineering and Scientific Research	Vol. 5 (1), 2018 pp. 111-115	UGC Approved, DRJI, Google Scholar, ROAD, Cite factor I.F. 3.241	Print: 2393-8374 Online: 2394-0697
10.	Dr. C.D. Mungmode	Wet Chemical Preparation and Photoluminescence in Cs ₂ MCl ₄ :Eu ²⁺ (M = Ba, Ca) Phosphors for pcLED Applications	Int. J. Current Engineering and Scientific Research	Vol. 5 (1), 2018 pp. 44-46	UGC Approved, DRJI, Google Scholar, ROAD, Cite factor I.F. 3.241	Print: 2393-8374 Online: 2394-0697
11.	Dr. C.D. Mungmode	Combustion Synthesis and Luminescence Properties of Red Emitting Sr _{4-x} Al ₆ MoO ₁₆ :xEu ³⁺ Phosphor	Int. J. Scientific Research in Science and Technology	Vol. 4 (1), Feb 2018 pp. 319-323	UGC Approved, DOAJ, DRJI, Google Scholar, Citefactor, Crossref.org, Research Gate I.F. 5.327	Print: 2395-6011 Online: 2395-602X

12.	Dr. V.I. Kahalkar	Eleocharis Khandwaensis (Family Cyperaceae) A New Record for Maharashtra, India	International, Journal of Bombay Natural History Society	vol. 113, Nov. 2017, pp. 50 - 52 DOI: 10.17087/jbnhs/2016/v113/119694	UGC Approved	0006-6982
13.	Dr. V.I. Kahalkar	Centranthera tranquedarica (Orobanchaceae): An Addition to the Flora of Maharashtra, India	International, Journal of Economic Taxonomy Botany	vol. 40 (3 – 4), 2016 pp. 161-164	UGC Approved	0970-3306
14.	Prof. D.V. Thakare	The study of Injuries Occurring Inter-Collegiate Kabaddi Players of Gondwana University, Gadchiroli	National, Research Demagogue	pp. 300-302 DOI: 10.22183/23501081	UGC Approved, Infobase, Crossref. Open Access I.F. 5.210	2350-1081
15.	Prof. D.V. Thakare	Traditional and Recreational Games in India	Int. J. of Researches in Social Sciences and Information Studies	vol. 5, March 2017, pp. 72-76	UGC Approved	2347-8268
16.	Prof. S.T. Nagdeve	Diversity of Intramural Aeromycobiota of the Rice Godown of Rice Mill	Int. Advanced Research Journal in Science, Engineering and Technology	vol. 4 (8), Aug. 2017 pp. 37-41 DOI: 10.17148/IARJSET.2017.4805	UGC Approved	Print: 2394-1588 Online: 2393-8021
17.	Dr. V. H. Raiwatkar	Literary Rebel: In Light of Selected Plays of Marathi Playwright Vijay Tendulkar	Int. e-Journal Jai Maa Saraswati Gyandayini	Vol. 3 (1), July 2017 pp. 533-539 I.F. 4.032 (IIJIF)	UGC Approved Cite Factor, Google Scholar	2454-8367
18.	Dr. V. H. Raiwatkar	वाङ्मयीन अभिरूची : स्वरूप, स्थित्यंतरे आणि समकालीन वास्तव	Int. e-Journal Research Journey	Dec. 2017, pp. 148-154 I.F. 3.452 (CIF)	UGC Approved	2348-7143

19.	Dr. V. H. Raiwatkar	साहित्यांची संकल्पना व लक्षणे — स्वरूप मिमांसा	Int. J. Vidyawarta	Vol. 9 (21), Mar. 2018 pp. 128-136 I.F. 5.131 (IIJIF)	UGC Approved	2319-9318
20.	Dr. V.P. Wanjari	सुरेश भट — काव्यामधुन विविध भाववृत्ती जपनारा कवी	Int. J. Printing Area	Vol. 4 (36), Dec. 2017 pp. 96-102 I.F. 4.002 (IIJIF)	UGC Approved	2394-5303
21.	Dr. V. P. Gorde	पर्यावरणीय आपत्ती — भारत — २०१७	Int. J. Vidyawarta	Special Issue, Feb. 2018 pp. 89-94 I.F. 5.131 (IIJIF)	UGC Approved	2319-9318
22.	Dr. V.P. Gorde	Cropping Pattern of Rice in Gadchiroli District	Int. J. Gurukul, Book on 'Sustainable Village Development: Emerging Ideas'	pp. 67-71 I.F. 3.325	UGC Approved	2394-8426
23.	Prof. P.S. Meshram	पर्यावरणीय आपत्ती — भारत — २०१७	Int. J. Vidyawarta	Special Issue, Feb. 2018 pp. 89-94 I.F. 5.131 (IIJIF)	UGC Approved	2319-9318
24.	Prof. P.S. Meshram	Cropping Pattern of Rice in Gadchiroli District	Int. J. Gurukul, Book on 'Sustainable Village Development: Emerging Ideas'	pp. 67-71 I.F. 3.325	UGC Approved	2394-8426
25.	Prof. S.K. Mohurle	Teaching English in Tribal Gadchiroli District: Challenges & Remedies	Int. J. Gurukul	Special Issue, Aug. 2017 pp. 45-49 I.F. 2.254	UGC Approved	2394-8426
26.	Prof.G.M. Kadhav	The Situations and Problems of Elderly in Rural Society	National Journal, The Inspiration	Vol. 01 (1), March 2018 pp. 73-75	-	ISBN 978-93-83139-35-4

27.	Prof.N.N. Meshram	A Structural Study of Gazal	Int. e-Journal Jai Maa Saraswati Gyandayini	Vol. 3 (2), Oct. 2017 pp. 174 - 181 I.F. 4.032 (IIJIF)	UGC Approved ROAD, Cite Factor, Google Scholar	2454-8367
28.	Prof.N.N. Meshram	Development of Gazal Science its Emergence	Int. J. New Man	Vol. 4 (8), Aug. 2017 pp. 04-08 I.F. 4.321 (IIJIF)	UGC Approved DRJI, Google Scholar, IIFS	2348-1390
29.	Prof.N.N. Meshram	Origin and Development of English Drama	Int. J. LangLit	Vol. 4 (1), Aug. 2017 pp. 79-84 I.F. 4.231	UGC Approved	2349-5189
30.	Prof.N.N. Meshram	English Gazal: An Introduction	Int. J. New Man	Vol. 4 (12), Dec. 2017 pp. 92-96 I.F. 4.321 (IIJIF)	UGC Approved DRJI, Google Scholar, IIFS	2348-1390
31.	Prof.N.N. Meshram	Factors Affecting English Learning of Undergraduate Marathi Medium Students From Gadchiroli District and Some Remedies	Int. J. Gurukul	Special Issue, Aug. 2017 pp. 38-44 I.F. 2.254	UGC Approved	2394-8426
32.	Prof.N.N. Meshram	Factors Affecting English Learning of Undergraduate Marathi Medium Students From Vidarbha and Some Remedies	Int. e-Journal Jai Maa Saraswati Gyandayini	Vol. 3 (1), July 2017 pp. 160-169 I.F. 4.032 (IIJIF)	UGC Approved ROAD, Cite Factor, Google Scholar	2454-8367

2. Research Paper Published In International/National Conference Proceeding:

Sr. No.	Name of Faculty	Title of the Paper	Name of the Conference/ Seminar	Date & Page no.	Place	ISBN No.
1.	Prof.D.V. Thakare	Importants of Physical Fitness Exercise	National Workshop on <i>Importance of Stretching Exercises for Enhancement of Performance Levels in Sports Persons</i>	24 Feb 2018, pp. 621- 624	Dr. Mudhukarrao Wasnik P.W.S. Arts and Commerce College, Nagpur	

3. Conferences/ Seminar/ Workshop Attended and Paper Presented:

Sr. No.	Name of Faculty	Name of the Conference/ Seminar/ Workshop	Level	Date & Place	Participation
1.	Prof.D.V. Thakare	Importance of Stretching Exercises for Enhancement of Performance Levels in Sports Persons	National Workshop	24 Feb 2018, Dr. Mudhukarrao Wasnik P.W.S. Arts and Commerce College, Nagpur	Attended
2.	Prof.D.V. Thakare	Future Prospective of Physical Education, Sport Sciences and Yogic Sciences	International Conference	15-16 Dec., 2017 Dept. of Physical Education, SGB Amravati University, Amravati	Attended
3.	Prof.S.T. Nagdeve	Modern Perspective in Life Sciences	National Seminar	9-10 March, 2018 Gramgeeta College, Chimur, Dist. Chandrapur	Attended
4.	Prof.S.T. Nagdeve	Botany CBCS Syllabus Discussion for UG Sem. III & IV	University Level Workshop	4 April, 2018 Anand Niketan College, Warora, Dist. Chandrapur	Attended

5.	Prof.G.M. Kadhav	CBCS in Languages and Social Sciences	University level Workshop	9 Aug, 2017 Lokmanya Mahavidyalaya, Warora, Dist. Chandrapur	Attended
6.	Prof.P.S. Meshram	Recent Trends in Geography for Wild Life and Environment Conservation	National Seminar	25 Feb, 2018 Bhartiya Mahavidyalaya, Morshi, Dist. Amravati	Attended
7.	Prof.P.S. Meshram	Development of Smart City: Impact and Transformations due to Urbanization	International Conference	12-13 Jan., 2018 Dhanwate National College, Nagpur	Attended
8.	P.S. Meshram	Urban and Environment Issues	National Seminar	22 July, 2017 Janta Mahavidyalaya, Chandrapur	Attended
9.	Dr. V.P. Gorde	Recent Trends in Geography for Wild Life and Environment Conservation	National Seminar	25 Feb, 2018 Bhartiya Mahavidyalaya, Morshi, Dist. Amravati	Paper Presented
10.	Dr. V.P. Gorde	Development of Smart City: Impact and Transformations due to Urbanization	International Conference	12-13 Jan., 2018 Dhanwate National College, Nagpur	Attended
11.	Dr. V. P. Gorde	Urban and Environment Issues	National Seminar	22 July, 2017 Janta Mahavidyalaya, Chandrapur	Attended
12.	Dr. L.H. Khalsa	Advances in Applicable Mathematics	International Conference	07-08 Dec., 2017 Dept. of Mathematics, Bharathiar University, Coimbtore (T.N.)	Paper Presented
13.	Dr. C.D. Mungmode	Condensed Matter and Applied Physics	International Conference	24-25 Nov., 2017 Govt. Engineering College, Bikaner (Rajasthan)	Paper Presented
14.	Dr. C.D. Mungmode	Recent Trends in Synthesis and Characterizations of Futuristic Materials in Sciences for Development of Society	National Conference	13 Jan., 2018 Late B.S. Arts, Prof. N.G. Science and A.G. Commerce College, Sakharkherda, Dist. Buldhana	Attended

15.	Dr. C.D. Mungmode	Luminescence and Applications	National Conference	14-16 Feb., 2018	Paper Presented
16.	Dr. C.D. Mungmode	Scope of Syllabi	University Level Workshop	19 Aug. 2017 S.P. Mahavidyalaya, Chandrapur	Attended
17.	Dr. V.I. Kahalkar	Modern Perspective in Life Sciences	National Seminar	9-10 March, 2018 Gramgeeta College, Chimur, Dist. Chandrapur	Attended
18.	Dr. V.I. Kahalkar	Botany CBCS Syllabus Discussion for UG Sem. III & IV	University Level Workshop	4 April, 2018 Anand Niketan College, Warora, Dist. Chandrapur	Attended
19.	Dr. V.H. Raiwatkar	मराठी भाषा: संरक्षणाच्या दिशा	National Seminar	7 Jan., 2018 Dept. of Marathi, RTMNU, Nagpur	Attended
20.	Dr. V.H. Raiwatkar	अभिरुची व बदलता वाचकवर्ग	National Seminar	22-23 Dec. 2017 Shri Dnyanesh Mahavidyalaya, Nawargaon, Dist. Chandrapur	Paper Presented
21.	Dr. V.H. Raiwatkar	CBCS in Languages and Social Sciences	University Level Workshop	9 Aug. 2017 Lokmanya Mahavidyalaya, Warora, Dist. Chandrapur	Attended
22.	Prof.G.W. Borkar	CBCS in Languages and Social Sciences	University Level Workshop	9 Aug. 2017 Lokmanya Mahavidyalaya, Warora, Dist. Chandrapur	Attended
23.	Prof.S.K. Mohurle	Revised Accreditation Framework	University Level Workshop	6-7 March, 2018 GUG	Attended
24.	Prof.S.K. Mohurle	CBCS in Languages and Social Sciences	University Level Workshop	9 Aug. 2017 Lokmanya Mahavidyalaya, Warora, Dist. Chandrapur	Attended
25.	Prof.S.M. Sontakke	Scope of Syllabi	University Level Workshop	19 Aug. 2017 S.P. Mahavidyalaya, Chandrapur	Attended