

S.S.E.S.AMRAVTI'S SCIENCE COLLEGE, NAGPUR

Annual Report for the Session 2016-17

Department of -Physics

Year of Establishment: UG: 1967, PG: 2011-12, CoC: 2013-14, Ph. D /Lab Recognition: 2014-15

1. No of **Certificate / Diploma / Advanced Diploma / PG Diploma** Courses run by Departments: 03
2. Total Number of students

UG		PG		Ph. D.	Others	
B.SC. I	157	M.Sc. I	20		Certificate	19
B.SC. II	181	M.Sc. II	26		Diploma	09
B.SC. III	116	MCA-I			Adv Diploma	-
BCA-I		MCA-II			PG Diploma in	01
BCA-II		-			Nano	
BCA-III		-			Technology	
Total	454	Total	46		Total	29

3. Faculty profile of Regular/Permanent Teaching Staff with name, qualification, designation.

Sr. No	Name	Qualification	Designation	No. of Years of Experience
1	Dr D K Burghate	M.Sc.,Ph.D	Principal	37
2	Dr.H.K.Dahule	M.Sc.,Ph.D.	Associate Professor	27
3	Dr.S.B.Khasare	Ph.D., D.Sc.	Associate Professor	23
4	Dr S W Anwane	M.Sc.,Ph.D.	Associate Professor	19
5	Dr S S Darokar	M.Sc.,Ph.D.	Assistant Professor	13

4. Faculty profile of Adhoc/Contributory Teaching Staff with name, qualification.

Sr. No	Name	Qualification	Adhoc/Contributory	Teaching at UG /PG Level	No. of Years of Experience
1	Ku.Neha Khotale	M.Sc.	Adhoc	PG.	5 Years
2	Ku.Hemlata Sidam	M.Sc.	Adhoc	P.G.	4 Years

5. Details of Administrative and Technical staff

Sr No	Name of the staff	Designation	Permanent /Temporary/ Daily-wages
1	D.S.Wankhade	Lab.Assistant	Permanent
2	D.A.Thakare	Lab.Attent	Permanent
3	M.G.Masram	Lab.Attent	Permanent

4	K.N.Meshram	Lab.Attent	Permanent
5	H.M.Dhawad	Lab.Attent	Permanent

6. Faculty recognized as a Supervisor / No of Students Registered

Sr. No	Name of the Supervisor	No of Students Registered	Whether Ph. D. Awarded
1	Dr D K Burghate	03	03
2	Dr.H.K. Dahule	02	-
3	Dr.S.B. Khasare	-	01
4	Dr S W Anwane	02	-
5	Dr S S Darokar	02	-

7. Results of the RTM Nagpur university examinations Winter -2016

Class	Total No of Students admitted	Appeared	Passed	Fail	Distinction	Pass %
B.SC. Sem- I	157	157	102	55	10	64.96
B.SC. Sem-III	181	181	113	68	09	62.43
B.SC. Sem-V	116	116	77	39	19	66.37
M. Sc. Sem-I	20	20	08	12	01	40
M. Sc. Sem-III	26	26	12	14	01	46.15
Ph. D.	10	10	-	-	-	-

8. Results of the RTM Nagpur university examinations summer 2017

Class	Total No of Students admitted	Appeared	Passed	Fail	Distinction	Pass %
B.SC. Sem- II	161	161	104	57	09	64.59
B.SC. Sem-IV	185	185	111	74	09	60
B.SC. Sem-VI	123	123	111	12	20	82.11

M. Sc. Sem-II	19	19	06	13	01	31
M. Sc. Sem-IV	26	26	12	14	01	46.15

9. Awards / Recognitions (Merits, Gold Medal, Silver Medal etc.) received by students:

Name of the Student	Class	Details of the awards/ recognitions	National / State / University/ Dist/ College Level	Year
Miss Akansha Deepak Churhe	B Sc VI	08 gold medals	R.T.M.Nagpur University, Nagpur	2016-17
Ku.Ankita Chandak	B.Sc.III PCG	group student of department received Rs 80,000 /- as a “SCHOLARSHIP FOR HIGHER EDUCATION (SHE)”	‘Innovation in Science Pursuit for Inspired Research (INSPIRE)’ instituted by DST.,New Delhi	2016-17
Ku.Mohammad Fazela Faroz	B.Sc.I Sem I (PCM)	student of our department have applied for INSPIRE SCHOLARSHIP to DST New Delhi, a “SCHOLARSHIP FOR HIGHER EDUCATION (SHE)”	‘Innovation in Science Pursuit for Inspired Research (INSPIRE)’ instituted by DST.,New Delhi	2016-17
Ku.Priya K. Ghodmare	B.Sc.I Sem I (PCM)	student of our department have applied for INSPIRE SCHOLARSHIP to DST New Delhi, a “SCHOLARSHIP FOR HIGHER EDUCATION (SHE)”	‘Innovation in Science Pursuit for Inspired Research (INSPIRE)’ instituted by DST.,New Delhi	2016-17

10. Awards / Recognitions received by faculty:

Name of the Faculty	Details of the awards/ recognitions	International / National / State / University/ Dist/ College Level	Year
Dr D K Burghate	Ideal Principal Award	Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur	2011
	Lifetime Achievement	2ND International Conference on “Science and	2015

Dr.D.K. Burghate	43						05	22	
Dr.H.K.Dahule	21						02	24	
Dr.S.B.Khasare	30								
Dr S W Anwane	15						05		
Dr S S Darokar	04						03		

14. No of research publications listed in International Database (SCOPUS / Google Scholar)

Name of the Faculty	No of research publications in SCOPUS	No of research publications in Google Scholar	Citations	h-index	i10-index
Dr.D.K. Burghate	43	42	142	7	5
Dr.H.K.Dahule	11	5	3	2	1
Dr.S.B.Khasare	33	33	93	6	3
Dr S W Anwane	9	9	21	2	1
Dr S S Darokar	3	15	19	2	1

15. Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

16. Details of publication of Chapter in Book/ Book Edited/ Book Published by the faculty

Name of the Faculty	Chapter in Book	Book Edited	Book Published			Year of Publication
			Title of the Book Published	ISBN/ISSN	Publisher	
Dr H K Dahule		02	Proceeding of ICMS-2012(as a Editor Member) Proceeding of NCNM-2013(as a Editor Member)			
Dr S W Anwane	01	03	Advanced Energy Materials Chapter: <i>Solid Electrolytes – Principles & Applications</i>	9781118686294	Scrivener Publishing	2014
			<i>Fundamentals of Electromagnetic Fields</i>	1934015008	Infinity Science Press, USA	2007
			<i>A Course in Electromagnetic</i>	81-8333-086-X	BPB Publications	2005

			<i>Fields</i>			
			<i>A textbook of Engineering Physics</i>	-	Nirali Prakashan, Pune	1997
Dr S S Darokar			Mechanics and Oscillation	978-93-82962-01-4	G.C.Publisher Nagpur	2012
			B.Sc.Sem I Physics paper I Properties of matter and mechanics	978-93-82962-12-0	G.C.Publisher Nagpur	2013
			B.Sc.Sem I Physics paper I & II Properties of matter and mechanics(Revised edition)	978-93-82962-12-0	G.C.Publisher Nagpur	2014
Dr S S Darokar			B.Sc.Sem II Physics paper I & II	978-93-82962-26-7	G.C.Publisher Nagpur	2014
			B.Sc.Sem III Physics paper I & II	978-93-82962-39-7	G.C.Publisher Nagpur	2015
			B.Sc.Sem IV Physics paper I & II	978-93-82962-53-3	G.C.Publisher Nagpur	2015
			B.Sc.Sem III Experimental Physics	978-93-81432-75-4	Sai Jyoti Publication Nagpur	2015
			B.Sc.Sem IV Experimental Physics	978-93-81432-73-0	Sai Jyoti Publication Nagpur	2015

17. Areas of consultancy and Revenue generated through consultancy

Areas of consultancy	Revenue generated through consultancy before the assessment period	Revenue generated through consultancy during the assessment period
-	-	-

18. Conferences/Seminar /workshop/Guest Lect. organized by the Department.

1	Conferences/ Seminar/ workshop/ Guest Lect.	International/ National / State/ University/ College Level	Title /Topic	Period	Sponsoring Agencies
1	Prof.Biswajyoti Dey	National			
2	Dr.B.A.Patki	National			

3	Dr.Mukund Moharir NASA	National			
4	Dr.J.M.Khobragade	National			
5	Dr.Satish Sharma	National			
6	Dr.S.B.Kondawar	National			
7	Shri Nitin A Gawande	National			
8	Sivasubramaniam Nagaswami	National			
9	Prof. S.J.Dhoble	National			
10.	Dr.Vijay Bhatkar	National			

19. No. of collaborations linkages

Sr. No	Collaborations	International /National / State / Any Other
	-	
	-	

20. List of eminent academicians and scientists / visitors to the department.

Sr No	Name	Field	Address	Date of visit
1	Prof.Biswajyoti Dey	Physics	Department of Physics, Pune University, Pune	21.12.2016
2	Dr.Mukund Moharir	Physics	NASA, USA	2.12.2017
3	Dr.Jairam Khobragade	Physics	Director, Inst. of forensic science	28.2.2017
4	Dr.Satish J. Sharma	Physics	Head, Dept.of Electronics & Computer Science R.T.M.Nagpur.	28.2.2017
5	Dr.Subhash Kondawar	Physics	Department of Physics RTM.nagpur.	28.2.2017
6	Dr.Nitin A.Gawande	Physics	USA	18.4.2017
7	Dr.Janchai Yingpraycon	Physics	Thailand	13.7.2017
8	Dr.Aravind Babu	Social	Calcutta	14.7.2017
9	Dr.C.S.Adgaonkar	Physics	Jablpur	13.9.2017
10	Dr.C.H.Bhosale	Physics	Department of physics kolhapur.	14.12.2017

21. Details on student enrichment programs (special lectures/workshops/seminar) with external experts:

Title/ Topic of the Program	Whether lectures/ workshops/seminar /other	Name of the external experts	Details of the external experts	Period of Program
Seven students of B.Sc. and M.Sc. participated in VUPTA Students Seminar	organized by Dnyanesh Mahavidyalaya, Nawargaon Dist.Chandrapur			24-25 Sept.2016

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

Name of the Faculty/	Details of Participation in Co-curricular activities	Details of Participation in Extracurricular activities	Details of Participation in Extension activities including Institutional Social Responsibility (ISR)	Details with dates and period
Dr.H.K.Dahule	Nanotech Programme	Coordinator		
Dr.S.B.Khasare	Physics Society	Coordinator		
Dr.S.W.Anwane	CPE Programme	Coordinator		
Dr.S.S.Darokar	NSS	Advisor		

23. List of Alumni of the Departments:

Sr No	Name and available details
1	Ashish A. Mahabal Senior Research Scientist At Cal. Tech. U.S.A.
2	Appulingam Shriram Working in NABARD
3	Dr. Ashish A. Deshmukh Pursuing Ph.D. IISC Baglore
4	Mr.Prafulla D.Vairagade M.Sc. Applied Geology IIT Mumbai.
5	Ku.Pooja Pingale Canara Bank Mumbai
6	Ku.Roop Singh. IIM
7	Dr.Kamlesh Moon M.P. Deo Science College, Nagpur
8	Dr.S.N.Patil M.Sc.Physics ,Associate Prof .Nashik.
9	Shri Rahul D.Khade Advocate High Court Nagpur
10	Dr.Vikas Bangre , Institute of Science, Mumbai
11	Mr. R. J. Sasan Indian Air Force
12	Mr. A. M. Lele Multinational Based Elect. Space Company U.S.A.
13	Mr. G. Agarwal IIT Guwahati
14	Mr. V. S. Marathe UK
15	Ku. Sandhya U.S.A.
16	Mr. Joshi S. S. Indian Air Force
17	Dr. Varambhe Prof. Food & Tech LIT Nagpur
18	P. V. Dhanodkar System Engg. United Bank Of India Pune
19	Shri Jayant M. Borade NIC Nagpur

20	Shri. Arora Programmer UK
21	Dr. Satish Sangode Scientist E Wadia Inst. of Himalaya Geology Deharadoon (UP)
22	Shri V. K. Patkhmode Hydrologist GSDA Pune
23	Shri Devendra Mahajan Hydrologist Sahara India, Lonawala
24	Shri Anup Fartode Lecturer KDK Engg. College, Nagpur
25	Appulingam Shriram Geologist Nabard Patna Bihar
26	Shri D. M. Kolte ,Nagpur
27	Shri. Ravi Bhoyar Adv. High Court Nagpur
28	Shri. Arora Programmer UK
29	Shri V. K. Patkhmode Hydrologist GSDA Pune
30	Shri Devendra Mahajan Hydrologist Sahara India, Lonawala
31	Shri Anup Fartode Lecturer KDK Engg. College, Nagpur
32	Appulingam Shriram Geologist Nabard Patna Bihar
33	Shri D. M. Kolte ,Nagpur
34	Shri. Ravi Bhoyar Adv. High Court Nagpur
35	Shri. Arora Programmer UK
36	Dr.S.N.Patil M.Sc.Physics ,Associate Prof .Nashik.
37	Dr.Kamlesh Moon M.P. Deo Science College, Nagpur
38	Mr. Malke Govt Poly,Sadar Nagpur.
39	Mr. C.G.Pande WCL
40	Mr. Y.S. Tijare,Nagpur.
41	Mr.Mukwane Meyo Hospital, Nagpur
42	Ku.Nikita Mathankar Entrhall Tech Pune
43	Ku.Renuka Raut Entrhall Tech Pune

24. Plan for the Current Academic Session (2017-18) :

To strengthen academic activities in the department for various courses viz; UG, PG, CoC, Innovative Programme (Nano-tech) and Research Centre.

Future plan for Next Academic Session (2018-19) :

25. To strengthen academic activities in the department for various courses viz; UG, PG, CoC, Innovative Programme (Nano-tech) and Research Centre.

26. Any other information: -

Date:08/02/2018

Signature
Head
Department of Physics