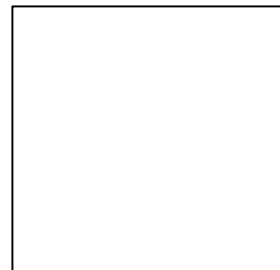


Dr Ramchandra T. Sapkal



A. General Information

- 1) Designation : Associate Professor
- 2) College : Tuljaram Chaturchand College, Baramati , Dist Pune
- 3) Department : Physics
- 4) Date of Birth : 3/3/1967
- 5) Date of Appointment : 5/9/2006
- 6) Total Teaching Experience : UG: 27 PG: 16
- 7) Permanent Address (with Pin code) : Vaishavi Apartment Flat No 11
Tandulwadi Road , Baramati
Dist Pune Pin 415102
- 8) Mobile No. : 9421178265
- 9) Email : sapkalramchandra33@gmail.com

B. Academic Qualifications :

Sr. No.	Exam. Passed	University	Subject	Year	Grade / Class
1	B.Sc	Shivaji	Physics	1991	First Class
2	M.Sc	Shivaji	Physics	1994	Second Class
3	M.Phill	Shivaji	Physics	1997	Awarded
4	PhD	Shivaji	Physics	2013	Awarded

C. Administrative Experience:

Sr No	Position	Duration / Year
1	Vice Principal, Tuljaram Chaturchand College Baramati	2021 onward
2	Member, Academic Council Tuljaram Chaturchand College Baramati	2020
3	Coordinator RUSA	2022 onward
4	Coordinator Certificate Courses (120 CC)	2017 onward
5	Nodal Officer UGC	2019 onward
6	NAAC Stearing Committee Member and IQAC Member (4 th Cycle)	2017 onward
7	IQAC Assistant Coordinator (3 rd Cycle)	2013 to 2017
8	IQAC Coordinator (2 nd Cycle)	2005 to 2012
9	ISO Coordinator	2022 , 2018, 2012, 2008
10	Research Coordinator	2017 onward
11	ARC of SPPU	2016 to 2020
12	Member of Proposal Writing Committee <ul style="list-style-type: none">• DST FIST• DBT STAR• CPE• Best College	2015 onward
13	Regional Director of Nano Moecular Society, New Delhi	2017 onward
14	Coordinator, Center for Innovative and Applied Research (CIAR)	2019-2022
15	Member, Board of Studies in Physics Tuljaram Chaturchand College Baramati	2019 onward
16	Member, Entrepreneurship Development Cell	2020 onward

D. Research / Fellowship / Research Training Program :

Sr. No.	Research	Title of Work / Thesis	University / Institute
1	M.Phil.	Properties of Ni _x Fe _{1-x} O ₁₉ Ferrites	Shivaji University
2	Ph.D.	Photoelectrocatalytic purification of Water using ZnO thin films	Shivaji University

E. Experience :

Sr. No.	Designation	Name of Employer	Salary with Grade Pay/ Academic Level	Date of		Experience in years
				Joining	leaving	
1	Lecturer	Rajaram College Kolhapur	CHB	15 June 1994	1 may 1995	01 Year
2	Lecturer	BDC Patan	2200	15 June 1994	4 sept 2005	10 Years
3	Associate Professor	T C College Baramati		5 Sept. 2005	Till Today	16 Years
Total Experience in years						27 Years

C. Orientation / Refresher / Short Term Course Completed :

Sr. No.	Course	Duration	University / Institute
1	Orientation Course	21 day s	Academic Staff College University of Kerala , Trivandram
2	Refresher Course	15 Days	Department of Physics Shivaji University Kolhapur
3	Refresher Course	15 Day	ASC Bangalore
4	Refresher Course	21 days	Academic Staff College University of Kerala , Trivandram
5	Special Winter School	21 days	cademic Staff College University pune ,
6	Short Term Course	7 day	UGC
7	Short Term Course	7 day	MHRD

F. Research and Publications:

1. Research Papers in Peer-Reviewed or UGC listed Journals :

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Impact Factor/ peer Reviewed
1	<u>Sequential photocatalysis and biological treatment for the enhanced degradation of the persistent azo dye methyl red</u> 115-122	Journal of Hazardous Materials 371, 115-122	0304-3894	14.224
2	<u>Photo-corrosion inhibition and photoactivity enhancement with tailored zinc oxide thin films</u>	Journal of Photochemistry and Photobiology B: Biology	1011-1344/1873-2682	6.841
3	<u>Photoelectrocatalytic decolorization and degradation of textile effluent using ZnO thin films</u> 201-107	Journal of Photochemistry and Photobiology B: Biology	1011-1344/1873-2682	6.841
4	Intracellular Biosynthesis of Silver Nanoparticles using Streptomyces species	Research Journal of Biotechnology Vol.4(3)	2278-4535 0973-6263	Peer Reviewed
5	<u>Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films</u> 237-243	Journal of alloys and compounds	0925-8388/1873-4669	6.371
6	<u>Structural, morphological, optical and photoluminescence properties of Ag-doped zinc oxide thin films</u> 64-70	Materials Express	2158-5849/2012-064007	1.650
7	<u>Photoelectrocatalytic hydrolysis of starch by using sprayed ZnO thin films</u> 053001	Journal of Semiconductors	1674-4926	0.418
8	<u>Photoelectrocatalytic activity of spray deposited ZnO thin films against <i>E. coli</i> Davis</u> 417-424	Materials Research Innovations	1432-8917	0.283
9	<u>Synthesis of ZnO: TiO₂ Nanocomposite Thin Films by Spraypyrolysis</u> 55-58	International Journal of Science and Engineering	2322-0015	Peer Reviewed
10	<u>Effect of substrate temperature and concentration on spray deposited zinc oxide thin films</u>	Material Science An Indian Journal	0974-7486	Peer Reviewed

11	Biosynthesis of Silver Nanoparticles and its Bacterial study on AgNP 123-126	Research Journal of Biotechnology	2278-4535 /0973-6263	Peer Reviewed
12	Structural And Magnetic Properties of Zn-Mg-Ti Ferrite System	Material Science An Indian Journal	0974-7486	Peer Reviewed
13	Effect Of Deposition Current on Crystallites Size of Electrodeposited CdSe Thin Films	Material Science An Indian Journal	0974-7486	Peer Reviewed
14	Photoelectrocatalytic purification of fecal, tap and E.coli contained water using ZnO thin films 42-49.	International Journal of Basic and Applied Research		Peer Reviewed
16	Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin film 250- 255	Material Science An Indian Journal. Trade Science MSAIJ, 7(4), 2011 [250-255]	0974-7486 Trade Science	Peer Reviewed
16	Photoelectrocatalytic Degradation of Methylene Blue and Inactivation of Escherichia coli by Spray Deposited	Journal of Waterpurification and purification research	2394-7306 STM Journal	Peer Reviewed
17	Plug and Play Electrodeposition Cell: A Case Study of Bismuth Ferrite Thin Films for Photoelectrochemical Water Splitting 7 pp	ECS Journal of Solid State Science and Technology, Volume 11, Number 1	Published by The Electrochemical Society. Online ISSN: 2162-8777. Print ISSN: 2162-8769.	2.07

2. Publications (other than Research papers)

(a) Books authored which are published by : 5 Books , 1 Book Chapter

Sr. No.	Title of Book / Book Chapter	Type of Book International /National / Chapter in Edited Book / Editor of Book by International / Editor of Book by National Publisher	Publisher & ISBN No.
1	Photoelectrocatalytic purification of water by zinc oxide thin films CONCEPT AND APPLICATIONS	International	978-3-659-40907-3 https://www.lap-publishing.com/extern/listprojects
2	Sprayed Nanocomposite Thin Films for Water Purification	International	978-620-2-00677-4 https://www.lap-publishing.com/extern/listprojects

3	Biosynthesis of Noble Metal Nanoparticles using	International	978-3-330-34887-5 https://www.lap-publishing.com/extern/listprojects
4	Isolation and Identification of Aquatic Actinomycetes	International	978-3-330-35215-5 https://www.lap-publishing.com/extern/listprojects
5	<u>Methodologies and Applications for Analytical and Physical Chemistry</u>	International	1781771886215 Apple Acedemic Press

3. Research guidance

a) Ph.D Degree : 4 Students Register for Ph.D

Sr No	Name of Student	Title of Research	Year of Registration
1	Miss Jayashree Vittal Waghmode	Studies on Synthesis and Characterization of TiO ₂ based Heterostructured Films for Purification of Waste Water	Topic Approved and Admitted w.e.f. 12/04/2022
2	Mr Sagar Kundlik Sodmise	Studies on Photoelectrocatalytic Water Splitting By Sprayed Bi-Based Heterostructured Films	Topic Approved and Admitted w.e.f. 12/04/2022
3	Miss Supriya Jothiram Shinde	Studies on Synthesis of Transition Metal Nickel Phosphate Composite as an Electrode Material for Supercapacitor	Topic Approved and Admitted w.e.f. 12/04/2022
4	Mrs Ashvini Jadhav	"Studies on Enhanced Photoelectrolysis of Water for Hydrogen Generation by a nanocomposite of g-C ₃ N ₄ -Metal Oxide thin film."	Topic Approved and Admitted w.e.f. 15/07/2022

b) P.G. Dissertation : 24

Sr. No	Name of the candidate	Year of Degree Awarded/ P.G. Dissertatio	Supervisor/Co-supervisor
1	Miss Chavan Sarika Shankar	P.G. Dissertation, April - 2013	Supervisor
2	Miss Magdum Pooja Balaso	P.G. Dissertation, April - 2015	Supervisor
3	Miss KaraleMinikaDilip	P.G. Dissertation, April – 2015	Supervisor
4	Miss Jadhav Priyanka Narayan	P.G. Dissertation, April – 2014	Supervisor
5	Miss KamblePreetiManik	P.G. Dissertation, April – 2015	Supervisor
6	Mr Pawar Vikas Maruti	P.G. Dissertation, April – 2013	Supervisor
7	Miss Pawar Radhika Atmaram	P.G. Dissertation, April – 2015	Supervisor
8	Miss Gaikwad Suvarna Dilip	P.G. Dissertation, April – 2015	Supervisor
9	Miss Mane Rashmi Pravin	P.G. Dissertation, April – 2015	Supervisor
10	Miss Petkar Shruti G	P.G. Dissertation, April – 2013	Supervisor
11	MrKamble Aniket Sathish	P.G. Dissertation, April – 2015	Supervisor
12	Miss SankpalNilam Narayan	P.G. Dissertation, April – 2018	Supervisor
13	Mr Patil Sourabh Mahavir	P.G. Dissertation, April – 2018	Supervisor
14	Mr Sable Abhinandan Prashant	P.G. Dissertation, April – 2019	Supervisor
15	Miss IngoleSonali Madhukar	P.G. Dissertation, April – 2019	Supervisor
16	Miss Sonavne Priyanka Navnath	P.G. Dissertation, April – 2016	Supervisor
17	Miss Siddhi SonaliGawade	P.G. Dissertation, April – 2016	Supervisor
18	Miss Jadhav Pruyanka Narayan	P.G. Dissertation, April – 2015	Supervisor
19	Miss WaghmodeJasyahriVittal	P.G. Dissertation, April – 2016	Supervisor
20	Miss Nale Pooja Somnath	P.G. Dissertation, April – 2018	Supervisor
21	Miss Khandekar Vaishnavi Vikas	P.G. Dissertation, April – 2018	Supervisor
22	Mr Patil Pratik Ashok	P.G. Dissertation, April – 2018	Supervisor
23	Miss Taware Komal Sanjay	P.G. Dissertation, April – 2019	Supervisor
24	MrChauguleNabhiraj Rajkumar	P.G. Dissertation, April – 2019	Supervisor

4 Research Projects Completed : 02

Sr. No.	Title	Agency	Year of completion
1	Sprayed Nanocomposite Thin Films for Water Purification(02 Years 2014-2016) Rs 210000/	BCUD, SPPU, Pune	2016
2	Synthesis of large area ZnO thin films by spray pyrolysis(02 Years 2008 – 2010) Rs 205000/	BCUD, SPPU, Pune	2010

5 Awards/Fellowship: 02

Sr. No.	Fellowship / Award	Year	International /National	Awarding Academic Body/ Association
1	Certificate of Excellence awarded by Nano and Molecular society , New Delhi, on 9thDec. 2017	2017	National	Nano and Molecular society , New Delhi,
2	Global Faculty Award	2020	International	AKS

6 Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences: 62

Sr No	Title	Level
	Invited lectures	
1	2 nd International conference on nanostructured materials and nanocomposite Organizer: international and interuniversity center for Nanoscience and nanotechnology M.G. university, Kottayam During: 19-21 December 2014	International
2	3 rd International conference on nanostructured materials and nanocomposite. Organizer: Hindustan College of science and technology Agra During: 12-14 December 2015	International
3	2 nd International conference on advanced materials for power engineering Organizer: international and interuniversity center for Nanoscience and nanotechnology M.G. university, Kottayam During : 11-13 November 2016	International
4	Induction program for 1 st year engineering student Organizer: Walchand College of Enginnering, Sangli During: 24 August 2019	National
	Resource Person	
1	Science Academy Refresher course in Experimental Physics-XXIX at SICES degree college of arts, science and commerce, Ambarnath. Organizer: Indian Academy of Bangalore, During 7-22 June 2011	National
2	Science Academy Refresher course in Experimental Physics-XXIX at VIT Chennai Organizer: Indian Academy of Bangalore, During : 4-19 December 2012	National
3	Science Academy Refresher course in Experimental Physics-XXIX at T.C.College, Baramati Organizer: Indian Academy of Bangalore, During : 7-23 November 2013	National
4	Science Academy Refresher course in Experimental Physics-	National

	XXIX at V.P.College, Baramati Organizer: Indian Academy of Bangalore, During : 14-29 May 2013	
5	Two days national level conference on Recent interdisciplanry approach in chemical , physical and life science Organizer: Anantrao Pawar college, Piranngut, Mulsi During: 11-12 January 2021	National
6	One day national seminar on revised accreditation framework and institutional Prepration: and review Organizer: Vidhya Bharti Mahavidyalaya, Amravati During: 9 March 2019	National
7	National conference on Advanced functional materials: Synthesis, characterization and application. Organizer: V.P.College, Baramati During : 3-4 January 2020	National
8	Member co-ordinator for Mock Peer Team of NAAC Organizer: Dhahiwadi College, Dhahiwadi During: 27 March 2017	National
9	Member co-ordinator for Mock Peer Team of NAAC Organizer: Shrimati Indira mahadeo beharay College, Khed, Ratnagiri During: 06 September 2017	National
10	Prepration for NAAC in 3 rd cycle Organizer: Mudhoji College, Phaltan, satara During: 11 March 2017	National
11	Internal Audit for ISO 9001: Continual Management Services, Aurangabad Organizer: T.C.College, Baramati During : 5-6 October 2012	National
12	Residential nature traning camp Oragnaizer : Sahyadri Adventure, Patan During : 24-7 December 2016	National
13	Annual Prise distribution organized by Yashwantrao Chavan Vidhyalay, Wadjal, Satara During: 26 Febury 2015	National
14	41th National Science exhibtion organized by Rajya Vidhyan Sanshta Nagpur during 31 Jan -4 Feb 2016	National
15	41th National Science exhibtion organized by Rajya Vidhyan Sanshta Nagpur during 31 Jan -4 Feb 2016	National
	Session Chair	
1	18 th National seminar of Physics and technology of sensors Organizer: Department of Physics, T.C.College, Baramati During : 6-8 March 2014	National
2	2 nd International conference on nanostructured materials and nanocomposite Organizer: international and interuniversity center for	International

	Nanoscience and nanotechnology M.G. university, Kottayam During: 19-21 December 2014	
3	2 nd International conference on nanostructured materials and nanocomposite Organizer: international and interuniversity center for Nanoscience and nanotechnology M.G. university, Kottayam During: 19-21 December 2014	International
4	3 rd International conference on nanostructured materials and nanocomposite. Organizer: Hindustan College of science and technology Agra During: 12-14 December 2015	International
5	2 nd International conference on advanced materials for power engineering Organizer: international and interuniversity center for Nanoscience and nanotechnology M.G. university, Kottayam During : 11-13 November 2016	International

Paper presentation in Seminars/ Conferences : 38

Sr No	Title of the Paper	Name of the Conference	Level
1	Spray deposited ZnO thin film for water purification	Innovation 2016: Regional research conference organized by Baburavji Gholap College, Sangvi, Pune during 7 october 2016	National Level
2	Thermodynamic model of a global warming	National conference on global warming and its consequences organised by Shardabai Pawar mahila mahavidhyala, barmati During 10-12 January 2008	National Level
3	Spray deposited TiO ₂ thin film for water purification	Innovation 2016: Regional research conference organized by H.V.Desai College,during 22-23 November 2010	National Level
4	Photoelectrocatalytic hydrolysis ZnO thin film	National Conference on recent trends in material science organized by Jaypee University of information Technology, Waknaghat, Solan,H.P.India during 8-10 October 2011	National Level
5	Photocatalytic inactivation of Ecoli, Salmonella, Bacillus, Staphylococcus by Au doped ZnO thin films	Two days international conference on recent trends and issues of renewable energy organized by Department of Physics, Mahatma Gandhi University, Nalgolanda during 29-31 March 2012	National Level
6	Synthesis of large area ZnO thin films by spray pyrolysis	Innovation 2012: Regional research conference organized by Bhartiya Jain Dharma art, science college Pune during 26-27 March 2012	National Level
7	Statistical approach for optimization	National conference on recent	National Level

	And preparing ZnO thin films	developments in mathematics and statistics organized by Department of Statistics, T.C.College, Baramati During : 14-16 February 2013	
8	Characterization of Refractory Mullite	National Seminar on electro and magneto ceramic devices and systems organized by Department of Physics and electronics Shankarrao Mohite Mahavidhyalay, akulj during 21-22 october 2002	National Level
9	Synthesis, characterization and photoelectrocatalytic application of spray deposited ZnO-TiO ₂ nanocomposite thin films	3 rd international conference on nanostructured materials and nanocomposites organized by hindhustan college of science and technology Farah, Mathura during 12-14 December 2015	International Level
10	Structural properties of spray deposited ZnO thin films on Aluminium foil	1 st International conference on Physics of materials and material based device fabrication (ICPM-MDF 2012) organized by Department of Physics, Shivaji University, Kolhapur during 17-19 January 2012	International Level
11	Physical properties of sprayed ZnO thin films	1 st International conference on Physics of materials and material based device fabrication (ICPM-MDF 2012) organized by Department of Physics, Shivaji University, Kolhapur during 17-19 January 2012	International Level
12	Structural, morphological, optical and photoluminescence properties of doped ZnO thin films	1 st International conference on Physics of materials and material based device fabrication (ICPM-MDF 2012) organized by Department of Physics, Shivaji University, Kolhapur during 17-19 January 2012	International Level
13	Preparation of ZnO thin films by pyrolysis and design of experiment	1 st International conference on Physics of materials and material based device fabrication (ICPM-MDF 2012) organized by Department of Physics, Shivaji University, Kolhapur during 17-19 January 2012	International Level
14	Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin film	RTMS 11	National Level
15	Spray deposited nanocrystalline ZnO thin films: Effect of substrate temperature	ANNMS 2012	National Level
16	Degradation of Methylene Blue using spray deposited ZnO composite thin films	International conference on plant research and resource management and 25 th APSI silver Jubilee Scientist Meet	International Level

		organized by T.C.College, Baramati during 11-13 Feb 2016	
17	Synthesis of Silver Nano Collidal from medicinal plant extract and its antimicrobial activity	International conference on Empowering society with microbial technology (ICESMT)-2019 organized by Post-Graduate department of Microbiology, T.C.College, Baramati during 7-9 Feb 2019	International Level
18	Photoelectrocatalytic inactivation of Ecoli, Davis by sprayed V2O5/TiO2 thin films under visible light	International conference on Empowering society with microbial technology (ICESMT)-2019 organized by Post-Graduate department of Microbiology, T.C.College, Baramati during 7-9 Feb 2019	International Level
19	Photocatalytic degradation of methylene blue using ZnO nanoparticles synthesized by hydrothermal method	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano-Molecular Society, India during 7-9 December 2017	International Level
20	Effect of UV irradiation on dielectric properties of Salisalic acid doped polyblend thin films of polypyrrole	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano-Molecular Society, India during 7-9 December 2017	International Level
21	Composite thin films of ZnO:TiO2 by spray pyrolysis technique	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano-Molecular Society, India during 7-9 December 2017	International Level
22	Compositional impact on growth and surface properties of chemical vapor deposited Cu _{1-x} Ni _x hydroxide film	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	International Level
23	Coupled multilayer photoelectrocatalytic electrodeposited microbial system used for decolorization and degradation of AZO dye methyl red	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	International Level
24	Sprayed nanostructured Cu; ZnO thin film for inactivation of bacteria	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	International Level
25	Humidity sensing mechanism of PANI/ZNO nanocomposite	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	International Level
26	PANI doped SnO ₂ /ZnO	International conference of applied	International

	nanocomposite humidity sensor	nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	Level
27	Study of electrical properties oxide thick film in presence of Co ₂ gas	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	International Level
28	Humidity sensing characteristics of porous ZnO/SnO ₂ doped thick films	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	International Level
29	Composite thin films of ZnO: by spray pyrolysis technique	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano-Molecular Society, India during 7-9 December 2017	International Level
30	Spectroscopic study of Poly (Styrene) /Ply (Vinyl acetate) composite thin films salicylic acid as dopant synthesized by Isothermal Evaporation technique	International conference of applied nanotechnology and Nanoscience organized by T.C.College Baramati and Nano	International Level
31	Synthesis and characterization of PbS thin films by SILAR	National conference on frontiers of chemistry and materials organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015	National Level
32	Cu _{0.5} Zn _x Ni _{0.5-x} Fe ₂ O ₄ nanostructural soft ferrites synthesized by sol gel autocombustion method	National conference on frontiers of chemistry and materials organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015	National Level
33	PBS thin layer coating over spray deposited ZnO nanowires by chemical bath deposition	National conference on frontiers of chemistry and materials organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015	National Level
34	Synthesis and characterization of AL doped ferrite by using auto ignition	National conference on frontiers of chemistry and materials organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015	National Level
35	Chemical growth of Cu(OH) ₂ thin films electrodes for supercapacitor	National conference on frontiers of chemistry and materials organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015 National conference on frontiers of chemistry and materials	National Level

		organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015	
36	Biosynthesis of CdS, ZnS and MnS nanoparticles using Streptomyces rameus strain NBR	National conference on frontiers of chemistry and materials organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015	National Level
37	Structural and optical properties of Ag doped ZnO Thin films	National conference on frontiers of chemistry and materials organized by Post graduate Department of Chemistry, T.C.College, Baramati 12-14 Feb 2015	National Level
38	Photo-bio coupling treatment for degradation of AZO dye methyl red	International conference on plant research and resource management and 25 th APSI silver Jubilee Scientist Meet organized by T.C.College, Baramati during 11-13 Feb 2016	International Level 978-81-924850-2-7

G) Design of new curricula / Courses :

1) Contribution in Syllabus Revision: 11

Sr No	Details
1	One day workshop on F.Y.B.Sc new syllabus organized by V.P.College, Baramati During 4 July 2008
2	One day workshop on F.Y.B.sc Syllabus revision organized by Abasaheb Garware College, Pune During 13 August 2008
3	Workshop on Restructing of F.Y,b.Sc Physics syllabus organized by Prof. Ramkrushna More Art, Commerce and Science college Akurdi during 12 Februry 2013
4	Restructrng of T.Y.B.sc Syllabus Theory organized by Baburaoji Gholap College, Sangvi, Pune During 28 January 2015
5	T.Y.B.Sc. Physics Syllabus framing meeting organized by Department of Physics , TuljaramChaturchand College, Baramati Syllabus on 07/04/2021. 2019 Pattern
6	F.Y.B.Sc./ M.Sc-I Physics Syllabus framing meeting organized by Department of Physics : 2019 Pattern
7	S.Y.B.Sc. Physics Syllabus framing meeting organized by Department of Physics :2019 Pattern
8	T.Y.B.Sc./ M.Sc-II Physics Syllabus framing meeting organized by Department of Physics : 2019 Pattern
9	T Y BSc SPPU, Pune Skill development course : Smart Sensors and Technology
10	T Y BSc SPPU, Pune Skill development course : Calibration of Instruments
11	F.Y.B.Sc./ M.Sc-I Physics Syllabus framing meeting organized by Department of Physics : 2022 Pattern

2) List of Certificate Courses: 120

CC- Number	Title of CERTIFICATE COURSE
CC-001	MARATHI VYAKRANSWARUPVICHAR
CC-002	PRASHASNIK MARATHI
CC-003	COMPUTER INTRODUCTION & HINDI
CC-004	TRANSLATION DIPLOMA
CC-005	BASIC ENGLISH GRAMMAR
CC-006	EFFECTIVE COMMUNICATION IN ENGLISH
CC-007	INTRODUCTION TO GERMAN
CC-008	HUMAN RIGHT'S
CC-009	TRAVEL AND TOURISM
CC-010	MODI SCRIPT
CC-011	BASIC MATHEMATICS, STATISTICS AND REASONING FOR ECONOMICS
CC-012	RESEARCH METHODOLOGY (SOCIAL SCIENCES)
CC-013	GROWTH AND DEVELOPMENT OF HUMAN LIFE SPAN
CC-014	CERTIFICATE COURSE IN YOGA EDUCATION
CC-015	PSYCHOLOGICAL COUNSELING
CC-016	STRATEGIC LEADERSHIP DEVELOPMENT IN DEFENCE STUDIES
CC-017	COMPUTER GEOGRAPHY
CC-018	DISASTER MANAGEMENT
CC-019	REMOTE SENSING AND GIS
CC-020	MODERN AGRONOMY
CC-021	POST HARVEST MANAGEMENT AND VALUE ADDITION OF FRUITS AND VEGETABLES
CC-022	SEED TECHNOLOGY
CC-023	GARDENING AND LANDSCAPING
CC-024	FOOD SAFETY QUALITY MANAGEMENT
CC-025	BAKERY TECHNOLOGY
CC-026	QUALITY CONTROL OF MILK & MILK PRODUCTS
CC-027	QUALITY CONTROL TECHNIQUES IN PHARMACEUTICAL, FOOD AND DAIRY INDUSTRIES
CC-028	BASIC MICROBIOLOGY LABORATORY PRACTICES
CC-029	RESEARCH METHODOLOGY (PG MICRO.)
CC-030	HERPETOLOGY
CC-031	ORNITHOLOGY
CC-032	MEDICAL DIAGNOSTICS
CC-033	BIODIVERSITY CONSERVATION
CC-034	INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS
CC-035	PCB & ANALOG CIRCUIT DESIGN
CC-036	AUTOMATION
CC-037	RENEWABLE ENERGY SOURCES
CC-038	STATISTICS FOR MANAGEMENT STUDIES
CC-039	QUANTITATIVE BIOLOGY
CC-040	RESEARCH METHODOLOGY
CC-041	BASIC INSTRUMENTATION DESIGN
CC-042	EMBEDDED SYSTEM DESIGN
CC-043	PCB & CIRCUIT DESIGNING
CC-044	PROGRAMMABLE LOGIC CONTROLLERS

CC-045	LOGICAL REASONING & NUMERICAL ABILITY
CC-046	TIME MANAGEMENT
CC-047	FUNDAMENTALS OF ACCOUNTING & BANKING
CC-048	COMPUTER BASICS
CC-049	COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT
CC-050	EVENT MANAGEMENT
CC-051	COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT
CC-052	EVENT MANAGEMENT
CC-053	MARKETING MANAGEMENT SKILLS
CC-054	ADVERTISING AND SALES PROMOTION
CC-055	TIME MANAGEMENT
CC-056	FUNDAMENTALS OF ACCOUNTING & BANKING
CC-057	COMPUTER BASICS
CC-058	OFFICE AUTOMATION
CC-059	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
CC-060	INTERNET AWARENESS
CC-061	JAVA PROGRAMMING
CC-062	PYTHON PROGRAMMING
CC-063	BOOTSTRAP
CC-064	C' PROGRAMMING
CC-065	FINANCIAL DATA PROCESSING AND ANALYSIS
CC-066	E-FILING INCOME TAX RETURN
CC-067	APPLICATION OF EXCEL IN LOGISTIC MANAGEMENT
CC-068	TIE AND DYE
CC-069	INVENTORY ACCOUNTING WITH GST
CC-070	COMPUTERIZED ACCOUNTING PRACTICES USING TALLY SOFTWARE
CC-071	OFFICE PRESENTATION USING MS-OFFICE
CC-072	ACCOUNTS WRITING AND BOOK-KEEPING
CC-073	COMPUTER APPLICATION FOR COST AND MANAGEMENT ACCOUNTANT
CC-074	BASIC PYTHON
CC-075	BASIC SPSS
CC-076	LATEX SOFTWARE
CC-077	SCILAB SOFTWARE
CC-078	SAGE SOFTWARE FOR LINEAR ALGEBRA
CC-079	COMPUTER APPLICATION FOR CMA
CC-080	SOFT SKILLS FOR LIBRARY AND INFORMATION SCIENCE PROFESSIONALS
CC-081	ICT APPLICATIONS IN LIBRARIES AND INFORMATION SCIENCE
CC-082	UNDERSTANDING CINEMA
CC-083	BASIC PHOTOGRAPHY
CC-084	BASIC DIGITAL MARKETING
CC-085	ANCHORING SKILL
CC-086	NATYAPRASHIKSHAN
CC-087	KATTHAK
CC-088	GUITAR
CC-089	CARTOON AND CARICATURE
CC-090	TALLY ACE
CC-091	TALLY PRO
CC-092	KOHA LIBRARY MANAGEMENT SOFTWARE
CC-093	BASIC COMPUTER APPLICATION IN LIBRARY SCIENCE
CC-094	ABILITIES SKILLS AND HEALTHY ATTITUDES

CC-095	EFFECTIVE COMMUNICATION AND PERSONALITY DEVELOPMENT
CC-096	INDUSTRIAL SECURITY
CC-097	IMMUNITY AND HEALTH CARE
CC-098	NETWORK MARKETING SKILLS
CC-099	HUMAN RESOURCE PLANNING AND DEVELOPMENT
CC-100	ENTERPRENEURSHIP DEVELOPMENT
CC-101	IMPORT AND EXPORT
CC-102	ME,MY WORLD,MY MISSION
CC-103	YOGA EDUCATION
CC-104	COST AND MANAGEMENT ACCOUNTING
CC-105	MVC USING ASP DOT NET
CC-106	ADVANCE PYTHON PROGRAMMING
CC-107	OFFICE ADMINISTRATION
CC-108	BUSINESS PLANNING AND PROJECT MANAGEMENT
CC-109	COMPUTER AIDED DRUG DESIGNING
CC-110	ANGULAR JS
CC-111	STOCK MARKET ANALYSIS
CC-112	NATIONAL LEVEL GAMES
CC-113	ROAD SAFETY
CC-114	CERTIFICATE COURSE IN BANKING
CC-115	MEDICAL DIAGNOSTICS
CC-116	MATHEMATICS FOR LIFE-SCIENCE
CC-117	TECHNIQUES IN MOLECULAR BIOLOGY
CC-118	RESEARCH AND PUBLICATION ETHICS
CC-500	CERTIFICATE COURSE COMPLETED OUT OF CAMPUS

H) Significant achievements:

- Teaching Advanced Quantum Mechanics from last 20 years to UG and PG.
- Expertise in Applied Density Functional Theory for designing new materials.
- API Score is 364 of SPPU, Pune and 398 of Shivaji University
- Organized the Refresher course in Experimental Physics during 2013 -14 and 4 experiments for UG and 3 experiments for PG classes are included by SPPU
- Two Skill based courses are designed for T Y BSc class for SPPU pune
- Work as IQAC coordinator and played active role to achieve NAAC A+ grade to college
- Active role in ISO certification process of the College
- Played active role in writing funding proposals to different agencies (DST FIST, DBT STAR, CPE , BEST COLLGE etc)
- Personal guidance and financial assistance to the needy students
- Created more than 70 lecture video's for the UG students
- Constructed more than 1000 CCT for water harvesting
- Effectively implementation of Certificate Courses to UG and PG Students

Dr Ramchandra T. Sapkal