

UGC HUMAN RESOURCE DEVELOPMENT CENTRE UNIVERSITY OF MUMBAI

Shankarrao Chavan Teachers Training Academy Building, Vidyanagari, Santacruz (E),

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Rated as a Performer by NAAC, All India Rank VII

No.: HRDC /27-254/2021

January 7, 2021

Principal R. J. College of Arts, Science & Commerce Opp. Ghatkopar Railway Station Ghatkopar (W), Mumbai - 400 086

Dear Sir.

We thank R. J. College of Arts, Science & Commerce for conducting the online Short Term Course on "Research Methodology in Basic Sciences" from September 21 to September 26, 2020 under the aegis of UGC Human Resource Development Centre, University of Mumbai. We appreciate the efforts put in by the principal Dr. Himanshu Dawda and the course coordinator Dr. Kiran Kolwankar in organizing this programme.

Looking forward to your continued association in future.

With regards,

Yours sincerely,

(Dr. K. Shanthi) Professor-Director



R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI II NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

UGC HUMAN RESOURCE DEVELOPMENT CENTRE, UNIVERSITY OF MUMBAI

Online Short term Course on "Research Methodology in Basic Sciences"

(For Teachers from all science disciplines)

September 21st, 2020 to September, 26th, 2020

Coordinated by HVPS's Ramniranjan Jhunjhunwala College, Ghatkopar (W)

Day/ Date	Monday 21/09/2020	Tuesday 22/09/2020	Wednesday 23/09/2020	Thursday 24/09/2020	Friday 25/09/2020	Saturday 26/09/2020	
Session I 10.00 a.m. to 11.30 a.m.	Inaugural session and keynote address Research Mindset: The Quest for Truth Dr Madan Mohan Chaturvedi Prof of Zoology Delhi University	Science Innovation and Research Dr Prabodh Chobe Ex Research Scientist	Research Methodology (Qualitative) Dr. Shweta Naik, HBCSE	Research Methodology (Quantitative) Dr. Aniket Sule, HBCSE	A network perspective on biologically-relevant chemical spaces Dr. Areejit Samal, IMSc Chennai	Health Research Dr. Kumaraswami Sivan Ex. General Manager, IRIS Healthcare Pvt Ltd.	
Session 2	How to write a research proposal	Bayer India Ltd	Research Methodology (Planning and design)	IPR and Patents	Project Presentation of Biological Sciences	Plagiarism - what is it and	
11.40 a.m. to 1.10 p.m.	Dr Usha Mukundan Ex-Principal, RJ College		Dr. Aniket Sule and Dr. Shweta Naik, HBCSE	Mrs Pallavi Kharkar iPRAM Mumbai	Dr. Kale (expert) ex-RJC	Dr. Medha Joshi, Ex-Head, Dept of Lib. Tata Hospital	
Session 3		Types of Research	Scientific writing	Physics Synchronization - a	Project Presentation of Chemical Sciences		
2.00 p.m. to 3.30 p.m.	Online resources Mr Santosh Hulagabali	Prof Krishna Iyer Bombay College of Pharmacy	Dr. Arpita Gupte	case for interdisciplinary research	Dr. Mokal (expert), RJC	Review	
	Librarian Central University of			Prof. Punit Parmanand, IITB			
Session 4 3.40 p.m. to 5.00 p.m.	Haryana	Steps in Research Prof Krishna Iyer Bombay College of Pharmacy	Participants' Project Proposal discussion, finalization and submission Kiran Kolwankar	Participants' Project Proposal presentation preparation and discussion Kiran Kolwankar	Project Presentation of Physical Sciences Prof. Bhattacharya (expert) Ex- UDP, MU	Valedictory Chief Guest Prof. Bhanage, ICT Mumbai (starting at 3.00 pm)	

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2019: Star College Status by DBT



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Report on the UGC HRDC's short term course on Research Methodology in Basic Sciences held during 21 to 26 September 2020

The course commenced on 21st September 2020 at 10.00 AM. Prof. Madan Mohan Chaturvedi from Delhi University was a keynote speaker. He gave a talk titled "Research Mindset – a quest for Truth" in which he exposed the audience to the importance of systematic approach to Research. The second session in the moming was by Dr. Usha Mukundan, Ex-Principal, R. J. College, on "How to write research proposals". This introduction was necessary as the participants were expected to write and submit a research proposal during the course.

The first step in writing a research proposal consists of literature survey and for this reason one needs to search and read the reference material. Therefore, the afternoon session was completely devoted to "Online Resources". Dr. Santosh Hulagabali, Librarian from the Central University of Haryana, gave a very extensive account of different ways of searching information on the internet.

The second day, 22 of September 2020, was devoted to sensitizing the participants to what one means by research, what are different types of research and motivating them to carry out innovative research. The morning session was conducted by Dr. Prabodh Chobe, Ex Research Scientist, Bayer India Ltd, on "Science Innovation and Research". The afternoon session was engaged by Prof. Krishan Iyer, Bombay College of Pharmacy. He gave two talks titled "Types of Research" and "Steps in Research".

The third day, 23rd September 2020, started with the core subject of the course, that is, Research Methodology. Dr. Shweta Naik from HBCSE introduced the participants to the qualitative aspects of the research methodology in the first lecture of the morning session. In the second lecture, Dr. Aniket Sule from HBCSE continued the subject with insights into the aspects of planning and designing the experiments.

The scientific writing skills are also necessary to communicate the research at the planning as well as disseminating stage. The first lecture in the afternoon session was devoted to this. Dr. Arpita Gupte from D Y Patil Deemed to be University gave a very lucid and informative lecture on "Scientific Writing". The second session in the afternoon was a mentoring session, conducted by Dr. Kiran Kolwankar, for the participants to answer their specific questions about the research proposals. It was meant to solve their lingering doubts before they submitted their proposals. Dr. Usha Mukundan also joined to answer participants' questions which arose from her presentation on the first day.

The fourth day, 24th September 2020, started with the third lecture on Scientific Methodology which was engaged by Dr. Aniket Sule. He covered the quantitative aspects related to statistical tools and various ways to present the data. The second lecture of the morning session dealt with IPR and patents. Mrs. Pallavi Kharkar of IPRAM gave an elaborate exposure to different steps needed in protecting intellectual property rights.

Prof. Punit Parmanand from IIT'B's Physics Department gave a talk during the first session in the afternoon. He made a case for interdisciplinary research by taking example of a phenomenon of synchronization and using experiments carried out in his laboratory in the fields of Physical, Chemical and Biological Sciences. The second part of the afternoon session was again devoted to

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mentoring and solving difficulties of the participants regarding their presentations of the research proposals which were scheduled on the next day. It was conducted by Dr. Kiran Kolwankar

The first lecture on Friday, 25th September 2020, was by Dr. Areejit Samal of Institute of Mathematical Sciences, Chennai. He presented his work on network based analysis of chemicals present in medicinal plants found in India and China. He arrived at an interesting conclusion that though quite a few chemicals similar to these already exist in western medicine, a majority of them have not yet been exlopited yet. Purpose of this talk was to present an example to the participants of a frontier research.

The second part of the moming session and the whole of the afternoon session was devoted to the presentation of research proposals by participants. They were devided into three groups. The proposals in the Biology were judged by Prof. Kale, an ex-RJC faculty and gave useful feedback to the participants. Dr. Mokal from the Chemistry Department of RJC evaluated the proposals in Chemistry. Finally, Prof. Bhattacharya, ex-faculty in the Physics Department of Mumbai University examined the proposals in the Physical Sciences.

The last day, 26th September 2020, began with a lecture by Dr. Sivan Kumaraswamy, Ex General Manager, IRIS Healthcare Pvt Ltd on "Health Research". He discussed several aspects of the subject including how to form the proposals and also the latest issues with Covid research. The second lecture of the morning session was on the important issue of Plagiarism. Dr. Medha Joshi, ex-Head, Department of Library, Tata Hospital started with ethics in research. Then she went on to explain what constitutes plagirism, how to avoid it and how to check it.

The afternoon session started with a review. The participants were asked to give their feedback. All the participants found the course useful and many of them felt more confident of writing a research proposal after attending the course. There were a couple of suggestion, one to include a hands on session for plagiarism checking and another one to discuss how to design a questionnair for research.

The course ended with a valedictory function with Prof. Bhanage from ICT, Mumbai as a Chief Guest. He delivered a lecture on "Green methods for synthesis of nanomaterials and their catalytic applications".

In all, 27 participants had paid the fees. However, two of them could not join the course owing to personal problems and changed academic responsibilities. Furthermore, two more participants had to discontinue the course owing to some unavoidable reasons. As a result, 23 participants completed the course successfully.

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List of Resource Persons for UGC HRDC's short term course on Research Methodology in Basic Sciences held during 21 to 26 September 2020

Sr. No	Particulars	Topic taken	Contact details	Specialization
1	Prof. Madan Mohan Chaturvedi Professor, Laboratory for Chromatin Biology Department of Zoology University of Delhi Delhi - 110 007, INDIA	Research Mindset a quest for Truth Keynote Speaker	Email:madan.chaturve di@gmail.com; mchaturvedi@zoology. du.ac.in Tel (lab.): +91-11- 27666051 (office-Zoology)): +91-11-27667985 Ext. 203 (Fax): +91- 1127666051	Zoology
2	Dr. Usha Mukundan Director Academics, Hindi Vidya Prachar Samiti, R. J. College, Ghatkopar(W), Mumbai 400 086	How to write Research Proposal	Cell: 9869003389 umukundan@hotmail.c om	Botany
3.	Dr. Santosh Hulagabali University Librarian Central University of Haryana Jant-Pali, Mahendergarh-123 031 Haryana, India	Online Resources	Cell: +91-99874 28147 santosh@cuh.ac.in	Library Sciences
4.	Dr. Prabodh Chobe Ex Senior General Manager and Head of R & D Center, BASF	Science Innovation and Research	prabodh.chobe@gmail. com Cell: 9820310191	Chemistry
5.	Prof. Krishna Iyer Professor, Bombay College of Pharmacy, Kalina, Mumbai	Types of Research and Steps in Research	krishnaiye@gmail.com 98192 22354	Pharmacy
6.	Dr. Shweta Naik Scientific Officer, Homi Bhabha Centre for Science Education, TIFR, V. N. Purav Marg, Mankhurd, Mumbai 400088	Research Methodology (Qualitative)	Contact: 022-2507 2106,shweta@hbcse.ti fr.res.in Cell: 97571 80111	Mathematics (Education)
7.	Dr. Aniket Sule, Reader Homi Bhabha Centre for Science Education, TIFR, V. N. Purav Marg, Mankhurd, Mumbai 400088	Research Methodology (Quantitative)	anikets@hbcse.tifr.res.i n Cell: 98202 73239	Physics



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8.	Dr. Arpita Gupte Assistant Professor, Section Head and Course Coordinator Food Science and Technology Section School of Biotechnology and Bioinformatics, D Y Patil Deemed to be University, Navi Mumbai	Scientific Writing	Cell: 98214 55060 Email: arpita.gupte@dypatil.e du	Biotechnolog y
9.	Mrs. Pallavi Kharkar Founder, Consultant and Patent Attorney IPRAM Intellectual Property Services	IPR and Patents	pallavi@ipram.net T:+91 (0) 9619720232	Pharmaceutic al Chemistry and Law
10.	Prof. Punit Parmanand Institute Chair Professor Department of Physics Indian Institute Technology Bombay Powai, Mumbai	Synchronization – a case for interdisciplinary research	punit@phy.iitb.ac.in cell: 99304 27595	Physics
11.	Dr. Areejit Samal Reader F Computational Biology Group, The Institute of Mathematical Sciences (IMSc), Chennai, India	A network perspective on biologically-relevant chemical spaces	asamal@imsc.res.in cell: 94980 20090	Physics/ Computationa l Biology
12.	Dr. Sivan Kumaraswamy Ex- Genearl Manager, IRIS Healthcare Technologies Pvt. Ltd.	Health Research	sivan_k11@rediffmail. com Cell: 98921 52480	Microbiology and Biotechnolog y
13.	Dr. Medha Joshi Consultant (Information Services) National Cancer Grid, Room no 1001, 10th Floor, Homi Bhabha Block, Tata Memorial Centre, Mumbai Former Head, Dept of Lib Scs Tata Memorial Hospital, Mumbai	Plagiarism	M – 9869271115 joshi.mva@gmail.com	Library Science
14.	Prof. Bhalachandra Bhanage Professor, Department of Chemistry, Institute of Chemical Technology, Matunga, Mumbai	Green methods for synthesis of nanomaterials and their catalytic applications	bm.bhanage@ictmumb ai.edu.in Cell: 93239 94018	Chemistry



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attendance_consolidated

Name (21 Sept (27 sept (28 se	Attendance record for the MU HRDC STC on RMBS held from 21 Sept to 26 Sept 2020												
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JYOTHI TP 99.49% 100.00% 100.00% 100.00% 97.65% 100.00% 100.00% 99.12% 100.00% 100.00% 96.60% kartiki bhave 100.00% 98.58% 100.00% 94.17% 100.00% 97.06% 100.00% 100.00% 97.31% 94.92% 95.92% Mahendra S SHINDE 99.49% 95.73% 91.70% 65.83% 97.61% 84.12% 94.42% 100.00% 95.58% 93.01% 91.88% 93.20% Nilesh Raut 100.00% 98.10% 100.00% 86.67% 100.00% 100.00% 100.00% 100.00% 99.49% 90.00% 99.49% 100.00% 99.49% 100.00% 99.49% 100.00% 99.49% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 99.442% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% <t< td=""><td>Hem Lata Khurana</td><td>100.00%</td><td>100.00%</td><td>94.76%</td><td>100.00%</td><td>100.00%</td><td>100.00%</td><td>100.00%</td><td>97.58%</td><td>93.81%</td><td>95.16%</td><td>100.00%</td><td>97.28%</td></t<>	Hem Lata Khurana	100.00%	100.00%	94.76%	100.00%	100.00%	100.00%	100.00%	97.58%	93.81%	95.16%	100.00%	97.28%
Mahendra S SHINDE 99.49% 95.73% 91.70% 65.83% 97.61% 84.12% 94.42% 100.00% 95.58% 93.01% 91.88% 93.20% Nilesh Raut 100.00% 98.10% 100.00% 86.67% 100.00% 100.00% 100.00% 100.00% 100.00% 99.49% 100.00% 99.49% 100.00% 99.49% 100.00% 100.00% 100.00% 100.00% 99.49% 100.00% 100.00% 100.00% 100.00% 99.49% 100.00%<	JYOTHI TP	99.49%	100.00%	100.00%	100.00%	100.00%	97.65%	100.00%	100.00%	99.12%	100.00%		96.60%
Mahendra S SHINDE 99.49% 95.73% 91.70% 65.83% 97.61% 84.12% 94.42% 100.00% 95.58% 93.01% 91.88% 93.20% Nilesh Raut 100.00% 98.10% 100.00% 86.67% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 99.49% 100.00% Padam Chand Bhati 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 99.46% 100.00% 100.00% pratyush purkayastha 100.00% 97.63% 100.00% 93.33% 79.43% 90.00% 96.57% 72.12% 100.00% 84.41% 96.45% 71.43% Rajendra Mane 100.00% 94.31% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 96.77% 100.00% 94.56% Ritesh Hatkar 100.00% 77.25% 69.00% 80.00% 100.00% 47.06% 77.68% 12.12% 100.00% 100.00% 90.00% 99.52% 100.00% 100.00% 100.00%	kartiki bhave	100.00%	98.58%	100.00%	94.17%	100.00%	97.06%	100.00%	100.00%	100.00%	97.31%	94.92%	95.92%
Padam Chand Bhati 100.00%		99.49%	95.73%	91.70%	65.83%	97.61%	84.12%	94.42%	100.00%	95.58%	93.01%	91.88%	93.20%
pratyush purkayastha	CA CHILDRANG AND AND END	100.00%	98.10%	100.00%	86.67%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.49%	100.00%
Rajendra Mane 100.00% 94.31% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 96.77% 100.00% 94.56% Ritesh Hatkar 100.00% 77.25% 69.00% 80.00% 100.00% 47.06% 77.68% 12.12% 100.00% 15.05% 0.00% 0.00% Sachin Bedre 95.96% 100.00% 100.00% 100.00% 99.52% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%		100.00%	100.00%	100.00%	100.00%	99.52%	100.00%	100.00%	100.00%	98.23%	99.46%	100.00%	100.00%
Ritesh Hatkar 100.00% 77.25% 69.00% 80.00% 100.00% 47.06% 77.68% 12.12% 100.00% 15.05% 0.00% 0.00% Sachin Bedre 95.96% 100.00% 100.00% 100.00% 99.52% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%		100.00%			93.33%	79.43%	90.00%	96.57%	72.12%	100.00%	84.41%	96.45%	71.43%
Sachin Bedre 95.96% 100.00% 100.00% 99.52% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%		100.00%	94.31%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.77%	100.00%	94.56%
Sindly B.L. 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	Ritesh Hatkar	100.00%	77.25%	69.00%	80.00%	100.00%	47.06%	77.68%	12.12%	100.00%	15.05%	0.00%	0.00%
Sindhu R L 100.00% 100.00% 100.00% 98.33% 100.00% 100.00% 100.00% 98.18% 98.56% 100.00% 100.00% 00.23%	AND THE RESERVE THE PARTY OF TH	95.96%	100.00%	100.00%	100.00%	99.52%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
		100.00%	100.00%	100.00%	98.33%	100.00%	100.00%	100.00%	98.18%	99.56%	100.00%	100.00%	99.32%
SINI CHANDRAN 100.00% 96.21% 98.69% 97.50% 100.00% 100.00% 99.14% 98.79% 96.46% 100.00% 100.00% 98.64%	SINI CHANDRAN	100.00%	96.21%	98.69%	97.50%	100.00%	100.00%	99.14%	98.79%	96.46%	100.00%	100.00%	98.64%
USHA SARASWATHI.U 100.00% 100.00% 100.00% 99.17% 100.00% 100.00% 100.00% 98.18% 100.00% 100.00% 100.00% 100.00%		100.00%	100.00%	100.00%	99.17%	100.00%	100.00%	100.00%	98.18%	100.00%	100.00%	100.00%	100.00%
37.3070	Vijaya Rode	100.00%	98.58%	100.00%	100.00%	99.52%	100.00%	100.00%	98.79%	100.00%	100.00%	100.00%	97.96%
Dr SACHIN SAKATE 81.31% 88.63% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	Dr SACHIN SAKATE	81.31%	88.63%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	



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UNIVERSITY GRANTS COMMISSION HUMAN RESOURCE DEVELOPMENT CENTRE

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Research Methodology in Basic Sciences

conducted from September 21 to September 26, 2020

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Sept. 26, 2020 MUMBAI

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