



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

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

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA.

Website: www.rjcollege.edu.in

Email: rjcollege@rjcollege.edu.in

Tel No: +91 22 25151763

Fax No: +91 22 25150957

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

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

Notice

Department of Chemistry organises, Value Added Course on 'Nano materials and Nanotechnology' for students and teachers of Science faculty.

Duration of the Course: 30 Hours

Period of Course: 14th June 2021 To 19th June 2021

Time: 09:00 am-12:30pm

Mode of Conduct: online using Zoom platform.

Students will be entitled for a certificate as well as 2 Extra Credits after the successful completion of the course.

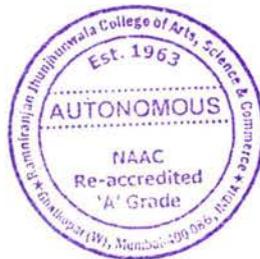
To join the course, register and fill up the form by clicking the following link

<https://forms.gle/bzFfMVe6YEg1RQuT8>.

Join the Telegram group after filling the registration form. Details of programme, notices and Zoom link will be shared in this group.

Telegram link:

<https://t.me/joinchat/9ruNBxal2k4yZJU1>




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RAMNIRANJAN JHUNJHUNWALA COLLEGE
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Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

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HINDI VIDYA PRACHAR SAMITI'S
RAMNIRANJAN JHUNJHUNWALA COLLEGE
(AUTONOMOUS)

Value Added Course on Nano-materials & Nanotechnology

(Introduction, Synthesis, Characterization & Application)

Organized by the Department of Chemistry

Course Duration: 30 Hours, Credits: 02

Registration is Free & Compulsory

Students and teachers of the science faculty can attend the course. On successful completion of the course, student will be eligible for 2 extra credits and a certificate.

Duration: From 14/6/2021 to 19/6/2021

Time: 9:00am to 12:50pm

Convener: Dr. R.S Dubey (Head, Dept. of Chemistry)

Co-ordinators:

Dr. A.D. Sawant (9930335471)

Dr. Vaishnavi Sridhar (9227276045)

Prof. Mandar Medhi (922390169)

Dr. Manisha Bhattacharya (9867898055)

Dr. Asawari Mokal (986973340)

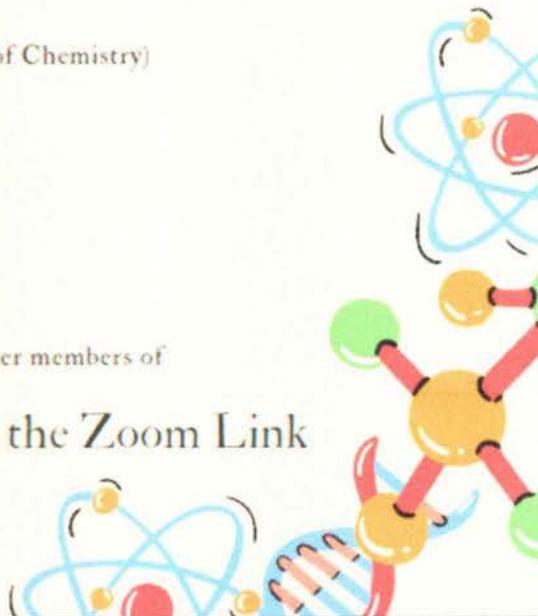
Dr. Amol Kadam (9224963357)

Dr. Palak Chawla (9920808073) & all other members of the department.

Join the lecture through the Zoom Link

Registration Link: [Click Here](#)

Telegram Link: [Click Here](#)



Principal
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Course Content

Unit 1 (15 Lectures)

Introduction - Milestones in nanotechnology, Recapitulation of concepts, Synthesis of nanomaterials by Physical methods like : High energy Ball milling, melt mixing, glass matrix method, Evaporation method, Laser pyrolysis, sputter deposition, DC, RF, magnetron sputtering, plasma eposition, chemical vapour deposition. Synthesis of Nanomaterials by Chemical methods: Advantages of chemical synthesis, synthesis of metal nano particles by colloidal route, synthesis of semi conductor nano particles, Chemical capping of nanoparticles, Langmuir Blodgett method, microemulsions. Sol-Gel method, Hydro thermal synthesis, sono chemical synthesis, microwave synthesis, synthesis using micro reactor. Synthesis of nano particles by biological method using micro organism. Self assembly of nano materials and Introduction to special nano materials.

Unit 2 (15 Lectures)

Characterization & Properties of nano materials: Optical properties, Mechanical properties, structural properties and dielectric properties. Characterization of nano particles: x-ray diffraction, SEM, energy dispersive x-ray spectroscopy, TEM, uv-vis spectroscopy and NMR.

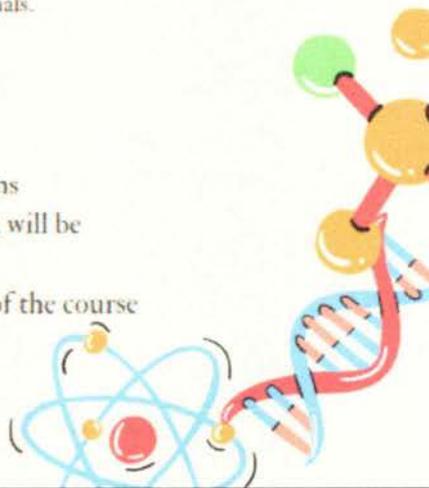
Applications: Energy source: Solar photo voltaic cell, dye sensitized and organic, Fuel cells, hybrid energy cells, In medical field: Imaging, drug delivery, cancer therapy, tissue regeneration, In various fields such as Automobiles, sports, textiles, cosmetics, agriculture, domestic applications. Effect of nano technology on human life and environment

Practicals: Synthesis of Ag, Au nano particles, Synthesis of CdS & ZnO nano particles, Synthesis of Fe₂O₃ and porous silica nano materials.

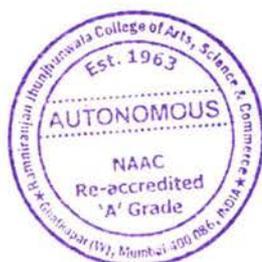
Conclusion; summary of nano technology

Instructions for Students

1. Attendance is compulsory for all sessions
2. One hour of assignment for homework will be given everyday
3. MCQ test to be conducted at the end of the course



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Report

Value Added Course

Certificate course in Nanomaterials and Nano Technology

Duration: 30 hrs Credits: 2

Learning Outcome: After completing the above course successfully, the learner thoroughly understands the Principle involved in the synthesis, Properties, characterization and applications of nanomaterials. The main outcome of this learning program is to create awareness about the wide and vast field of nano science and to help students pursue their higher education and career in this field. The course content is designed in such a way that it covers multidisciplinary field of science, so that any science student or faculty can understand the fundamentals of nano science.

People who can take part in this value-added course include Students, teachers of science faculty Lab-Technicians, Lab-attenders and other supporting staffs deployed in the laboratory. Unit 1 (15 lectures)
Introduction & Synthesis of nanomaterials

Introduction- Milestones in nanotechnology, Recapitulation of concepts of quantum mechanics and solid states of materials, Synthesis of nanomaterials by Physical methods: High energy Ball milling, melt mixing, glass matrix method, Evaporation method, vapour deposition method, ionized cluster beam deposition, laser method, Laser pyrolysis, sputter deposition; DC, RF, magnetron sputtering, plasma eposition, Chemical vapour deposition, electric arc deposition, ion beam technique, molecular beam epitaxy. Synthesis of Nanomaterials by Chemical methods: Advantages of chemical synthesis, synthesis of colloids, nucleation and growth of nano particles, Synthesis of metal nano particles by colloidal route, synthesis of semi conductor nano particles, Chemical capping of nanoparticles, Langmuir Blodgett method, microemulsions. Sol-Gel method, Hydro thermal synthesis, sono chemical synthesis, microwave synthesis, synthesis using micro reactor. Synthesis of nano particles by biological method: synthesis using micro organism, from plant extract, from proteins, template like DNA, Self assembly of nano materials in organic, inorganic and biological systems, Introduction to special nano materials: carbon nano materials, types of carbon nano tubes, porous materials, porous aerosols, porous silicon.




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Unit 2 (15 lectures) Characterisation, Properties & Applications	Characterisation & Properties of nano materials: Optical properties: Photo luminescence, electroluminescence, cathodoluminescence, thermoluminescence Mechanical properties, structural properties, melting of nano particles, and dielectric properties. Characterisation of nano particles: x-ray diffraction, SEM, energy dispersive x-ray spectroscopy, TEM, uv-vis spectroscopy and NMR Applications: Energy source: Solar photo voltaic cell, dye sensitized and organic, Fuel cells, hybrid energy cells In medical field: Imaging, drug delivery, cancer therapy, tissue regeneration Automobiles, sports, textiles, cosmetics, agriculture, domestic applications. Effect of nano technology on human life and environment.
Practicals	Synthesis of Ag, Au nano particles, synthesis of Cds & ZnO nano particles Synthesis of Fe ₂ O ₃ and porous silica nano materials.

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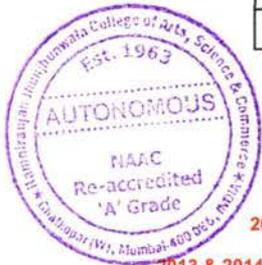
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Sr No.	Name	Class	Roll no.
1	ANSARI MOHD ADNAN SANAULLAH ZIKRA KHATOON	<u>S.Y.B.Sc</u>	1
2	ANSARI SHIFA PARVEEN NOORUL HASAN	<u>T.Y.B.Sc</u>	3
3	Shweta Satyavrat Chavan	<u>S.Y.B.Sc</u>	5
4	Sani Chauhan	<u>F.Y.B.Sc</u>	6
5	Moksha Jitendra Dhoka	<u>S.Y.B.Sc</u>	9
6	Chaitanya Ullhas Gatkal	<u>F.Y.B.Sc</u>	10
7	ANJALI ANTARYAMI BISOYI	<u>T.Y.B.Sc</u>	11
8	Vaishnavi Rajesh Gosavi	<u>S.Y.B.Sc</u>	12
9	Prashant Rajmani choubey	<u>T.Y.B.Sc</u>	12
10	Ruchika Sanjay Gurav	<u>T.Y.B.Sc</u>	13
11	Sakshi Gunjal	<u>F.Y.B.Sc</u>	13
12	Rutuja Rohidas Jadhav	<u>S.Y.B.Sc</u>	14
13	ritesh pravin jadhav	<u>S.Y.B.Sc</u>	15
14	Aadarsh Prashant Gupta	<u>F.Y.B.Sc</u>	15
15	Divyansh Rajendra Prasad Dubey	<u>T.Y.B.Sc</u>	16
16	Gupta Anchal Pradeep	<u>F.Y.B.Sc</u>	16
17	K.Fathima Rinsha	<u>T.Y.B.Sc</u>	17
18	Shrutika pradeep Kadam	<u>S.Y.B.Sc</u>	18
19	Sonali Dashrath Gupta	<u>F.Y.B.Sc</u>	18
20	Anandalakshmy Ramakrishnan Iyer	<u>F.Y.B.Sc</u>	18
21	Priyanka Gopinath Gade	<u>T.Y.B.Sc</u>	20
22	Anam Fatima Shakeel Ahmed Khan	<u>T.Y.B.Sc</u>	20
23	Vaishnavi vitthal kalekar	<u>F.Y.B.Sc</u>	21
24	Khan Ayesha Istiyak Ahmed	<u>F.Y.B.Sc</u>	22
25	Kajal prabhakar mishra	<u>S.Y.B.Sc</u>	23
26	Akshita Rajanbabu Nadar	<u>S.Y.B.Sc</u>	27
27	Jha Laxmi Roshan	<u>F.Y.B.Sc</u>	31
28	Jayesh Digambar Pande	<u>F.Y.B.Sc</u>	32
29	Sailee Sanjay Pote	<u>S.Y.B.Sc</u>	33
30	Sneha pandey	<u>F.Y.B.Sc</u>	34
31	Preeti harful jaiswar	<u>T.Y.B.Sc</u>	35
32	Nandini Surendra Prajapati	<u>T.Y.B.Sc</u>	35
33	Zaid Ahmed Parkar	<u>F.Y.B.Sc</u>	37
34	Shaikh Ambreen Mohd Shamim	<u>S.Y.B.Sc</u>	37
35	Patel manish chandrashekhar munnii	<u>F.Y.B.Sc</u>	38
36	Shruti Sanjay Pathak	<u>F.Y.B.Sc</u>	39
37	Mantasha Faizan Ahmed Shaikh	<u>T.Y.B.Sc</u>	40



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38	Akash Suresh Kevat	T.Y.B.Sc	40
39	Khan naziya nafees	T.Y.B.Sc	43
40	Shukla Ritika Jayprakash	S.Y.B.Sc	44
41	Ankita Maurya	T.Y.B.Sc	45
42	Nisha Sukhlal Singh	S.Y.B.Sc	47
43	Mansi Rajendra Mishra	T.Y.B.Sc	48
44	Shweta Mishra	T.Y.B.Sc	49
45	Shaikh Azka	F.Y.B.Sc	49
46	Kajal Dharmendra Nishad	T.Y.B.Sc	53
47	SHWETA ASHOK TIWARI	S.Y.B.Sc	54
48	Anita Surendra Singh	F.Y.B.Sc	54
49	Praveen Ranjan Santosh Pandey	T.Y.B.Sc	57
50	Kajal subhashchandra yadav	S.Y.B.Sc	58
51	Ragini Pandey	T.Y.B.Sc	58
52	Devita Pannelal Yadav	S.Y.B.Sc	58
53	Hariom Narayan Umesh Thakur	F.Y.B.Sc	61
54	Pankaj pramod patel	T.Y.B.Sc	61
55	Harilal Rajkumar Prajapati	T.Y.B.Sc	65
56	Anchal virendra yadav	F.Y.B.Sc	67
57	Manasi ravindra ambhore	S.Y.B.Sc	67
58	Vaishnavi Rai	T.Y.B.Sc	69
59	jyoti sahani	T.Y.B.Sc	72
60	Sarita ramakant yadav	S.Y.B.Sc	72
61	SHAIKH SALIM AKBAR ABEDABI	T.Y.B.Sc	75
62	anil sharma	F.Y.B.Sc, T.Y.B.Sc	77
63	Khan Naaz Zakir Hamid	F.Y.B.Sc	78
64	Nikhil Ashok singh	T.Y.B.Sc	85
65	Pritam teli	T.Y.B.Sc	89
66	Jyoti tiwari	T.Y.B.Sc	91
67	Preeti Vedprakash Tiwari	T.Y.B.Sc	92
68	Vikas sharad Tiwari	T.Y.B.Sc	94
69	Shivam Varma	F.Y.B.Sc	94
70	Anjali Hajarilal Vaish	T.Y.B.Sc	95
71	VISHWAKARMA ROSHAN AVADHRAJ	T.Y.B.Sc	97
72	Walmiki Deepti Subodhkumar	T.Y.B.Sc	99
73	Dewashya Mahendranath Dubey	S.Y.B.Sc	101
74	Abhishek Yadav	T.Y.B.Sc	101
75	Nidhi Ravindra Yadav	T.Y.B.Sc	106



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77	Yadav Pratibha Satyaprakash	T.Y.B.Sc	108
78	Shreekant Ankush Kamble	S.Y.B.Sc	119
79	Apeksha Balu Adak	T.Y.B.Sc	125
80	Nuzhat Bano Farooq Khan.	T.Y.B.Sc	126
81	Ganesh pandey	S.Y.B.Sc	235
82	Choudhary Husna Zainab Mohd Sharif	F.Y.B.Sc	240
83	Jay Gaikwad	T.Y.B.Sc	337
84	Rajbhar Rinki Shyamnarayan	F.Y.B.Sc	367
85	SANA FIROZ BYARI	F.Y.B.Sc	418
86	Chaudhary Anita Rajendra	F.Y.B.Sc	419
87	Tabassum Chaudhary	F.Y.B.Sc	426
88	Dawker Jameel Ahmed	F.Y.B.Sc	431
89	Khan Hajra Badre alam	F.Y.B.Sc	463
90	IQRA KULSUM HAFIZUR REHMAN	S.Y.B.Sc	464
91	ALSA BEHRAM KHAN	F.Y.B.Sc	489
92	Khan arif hussain sabir hussain	F.Y.B.Sc	491
93	Ansari Farnaaz Shoeb Ahmed	S.Y.B.Sc	502
94	Afreenbanu choudhary	S.Y.B.Sc	506
95	Choudhary Krishna Bhagaram	S.Y.B.Sc	507
96	Mariam.A.Chougule	S.Y.B.Sc	508
97	VAISHNAVI DHONDI GAWADE	S.Y.B.Sc	509
98	Pratiksha. Udaykant. Gawde.	S.Y.B.Sc	510
99	Nandani Govind Gupta	S.Y.B.Sc	512
100	Siddhi Vilas Pawar	S.Y.B.Sc	527
101	Siddhi Vinayak Pawar	S.Y.B.Sc	528
102	Swapnali Krishna Nakti	T.Y.B.Sc	530
103	Pal anita mhangu	S.Y.B.Sc	535
104	Reethik Anilkumar Pal	F.Y.B.Sc	536
105	Siddiqui juber hasan sogra bano	S.Y.B.Sc	539
106	Susmita Jaiprakash Tiwari	T.Y.B.Sc	546
107	Rubi devi vishwakarma	S.Y.B.Sc	549
108	ANUJ ARJUN YADAV	T.Y.B.Sc	553
109	pritti vishwakarma	S.Y.B.Sc	559
110	RAVINA SUBHASH PAL	S.Y.B.Sc	562
111	Seefa Salim Sayyad	F.Y.B.Sc	564
112	Shaikh safique	F.Y.B.Sc	580
113	Anjita rambechan bhardwaj	S.Y.B.Sc	601



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Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

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

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

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai - 400 086, Maharashtra, INDIA.

Website : www.rjcollege.edu.in Email : rjcollege@rjcollege.edu.in Tel. No.: +91 22 25151763 Fax No: +91 22 25150957

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)

114	Anmol Devlal Bhagat	<u>S.Y.B.Sc</u>	602
115	SURVE MASEERA FAROOQUE	<u>F.Y.B.Sc</u>	604
116	Zain Dabir	<u>S.Y.B.Sc</u>	605
117	Kajal gupta	<u>S.Y.B.Sc</u>	610
118	KHAN AASMA AKBAR ALI	<u>S.Y.B.Sc</u>	619
119	Mohammed Irshad khan	<u>S.Y.B.Sc</u>	621
120	Khan Mohammed Alam	<u>S.Y.B.Sc</u>	622
121	Tausif Khan	<u>S.Y.B.Sc</u>	623
122	Diksha Dinesh Yadav	<u>F.Y.B.Sc</u>	625
123	Krishnamoni Kalita	<u>S.Y.B.Sc</u>	631
124	Aakash Harishchandra Mahapatra	<u>S.Y.B.Sc</u>	632
125	Preeti Hemant Nehate	<u>S.Y.B.Sc</u>	637
126	Petkar Almas Mohammed Hanif	<u>S.Y.B.Sc</u>	642
127	Rajan Jamuna Prajapati	<u>S.Y.B.Sc</u>	646
128	Shukla Harsh Umashankar	<u>S.Y.B.Sc</u>	656
129	PRASHANT VIRENDRA SHUKLA	<u>S.Y.B.Sc</u>	657
130	Aaina Ajay Singh	<u>S.Y.B.Sc</u>	659
131	Akanksha Singh	<u>S.Y.B.Sc</u>	660
132	Vaidehi Pushpraj Potdar	<u>T.Y.B.Sc</u>	666
133	neha surendra sonkar	<u>S.Y.B.Sc</u>	667
134	Sufiya khatoun Nasim Ahmed	<u>S.Y.B.Sc</u>	668
135	Ansh Sanjay Vishwakarma	<u>S.Y.B.Sc</u>	670
136	Pooja Ramashray Yadav	<u>S.Y.B.Sc</u>	674
137	Tiwari Alok Shyammani	<u>S.Y.B.Sc</u>	691




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<p><i>Certificate of Completion</i></p>	
<p>This is to certify that</p> <p><i>Ansari Shifa Parveen Noorul Hasan</i></p> <p>of Class T.Y.B.Sc Roll No. 3</p> <p>has successfully completed the Value-Added Course in Nanomaterials and Nanotechnology organized by Department of CHEMISTRY and conducted from 14 June, 2021 to 19 June, 2021.</p>	
<p>COURSE CODE RJCHEC02</p>	<p>Issue Date: 13 July, 2021</p>
<p></p>	
<p>Dr. Himanshu Dawda In-charge Principal</p>	
<p>CERTIFICATE ID: RJC VAC 202021-00742</p>	






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