



RAMAIAH
College of Arts, Science &
Commerce

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M S Ramaiah College of Arts, Science and Commerce

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,

Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)

Ranked 62nd in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

Ref No.MSRCASC/CHEM-BIOCHEM/2021-22/27

Dated: 04/05/2022

CIRCULAR

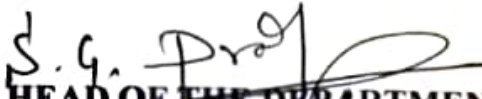
Department of Chemistry and Biochemistry

A value-added course on the topic “Exploring the chemistry of nanomaterials” will be starting for B.Sc. Chemistry students from 9th May to 31st May 2022. This course will enlighten the students with recent developments in different experimental systems used in the synthesis of newer nanomaterials, characterization, and applications. Course duration is 30 hours. Interested students can enroll their name with Mr. Bharath K. Devendra/Mrs. Smrithi S.P on or before 06/05/2022.

Course Facilitators

Mr. Bharath K. Devendra
Assistant Professor
Department of Chemistry/Biochemistry
MSRCASC

Mrs. Smrithi S. P
Assistant Professor
Department of Chemistry/Biochemistry
MSRCASC


HEAD OF THE DEPARTMENT
Head of the Department
CHEMISTRY / BIO-CHEMISTRY
M.S. Ramaiah College of Arts,
Science & Commerce
Bangalore - 560 054


PRINCIPAL
Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

M S Ramaiah Nagar
MSRIT Post
Bangalore 560 054

T +91 80 2360 0966/8597
+91 80 2360 6905
F +91 80 2360 6213

E principal.msrmcasc@gmail.com
W www.msrmcasc.edu.in

Resource Persons

Industry experts and renowned Professors from prestigious institutions.

Coordinators

1. Mr. Bharath K. Devendra
Assistant Professor,
MSRCASC, Bengaluru.
2. Mrs. Smriti S.P.
Assistant Professor,
MSRCASC, Bengaluru.

Hands on training on Synthesis & Analysis of nanomaterials

- Hydrothermal technique.
- Solution Combustion method.
- Sonochemical Synthesis.
- Co-precipitation method.
- Sol-gel method.
- UV-Visible Absorbance Spectroscopy.

About the Programme

The Department of Chemistry & Biochemistry takes the lead on a variety of co-academic activities with the goal of developing students' skills in all areas. In the similar line, department has organized an add-on course entitled "Exploring the chemistry of nanomaterials" for UG students of Chemistry. This program is preferably for selected students interested in pursuing further career in the field of research and industry. This program will further inculcate research interest, zeal, enthusiasm and contemporary knowledge in Chemistry research in the aspiring candidates.

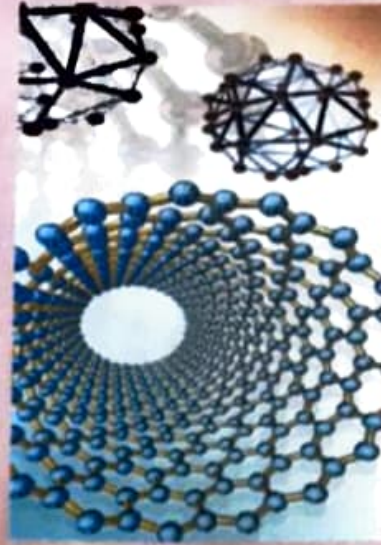
Resource persons of this program include industry experts, renowned professors from prestigious institutions and the faculties of the Department of Chemistry, MSRCASC, with a sound research experience in the domain of nanotechnology. The order of the sessions is made to maintain the flow of the main topic of the add-on course. The department of Chemistry/Biochemistry is thankful to the management for giving an opportunity to organize such programs.



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Value-added Course On

"Exploring the chemistry of nanomaterials"



Duration:

9th May to 31st May - 2022

Venue:

Chemistry UG/PG lab/ Chemistry Research Center and Room No. 50-4

Organized by:

Department of Chemistry and Biochemistry

M.S. Ramaiah College of Arts, Science and Commerce, Bengaluru - 560054

M.S. Ramaiah College of Arts, Science and Commerce

Dr. M S Ramaiah, a visionary and philanthropist established "Gokula Education Foundation (GEF)", in the year 1962, to deliver education and healthcare for the betterment of mankind. Under the tutelage of GEF, M.S Ramaiah College of Arts, Science and Commerce (MSRCASC) was established in 1994. MSRCASC is Re-accredited with "A" Grade by NAAC, permanently affiliated to Bengaluru City University (BCU), and approved by AICTE, New Delhi.

The college offers seven UG courses and four PG courses in Arts, Science, and Commerce, to around 2000 students. The Department of Life Sciences conducts 2 UG and 4PG Programs in Microbiology, Chemistry, Biotechnology and Biochemistry to about 800 students. The dedicated academic faculties from our college have extensive teaching experience and have pursued doctoral and postdoctoral work in eminent institute's in India and abroad. Ramaiah College not only educates young students to excel academically, but also strives hard to inculcate social responsibilities in them.

Department of Chemistry and Biochemistry

The Department of Chemistry and Biochemistry was established in the year 1994 and currently conducts both UG and PG courses in Chemistry and Biochemistry. The syllabus is constantly supported by current day, real life applications carrying utility value. The department has very good infrastructural facilities to carry out teaching and research activities. Highly qualified faculties are assigned with theory and practical classes and are instructed to emphasize on the 'learning' of the students. The department undertakes research projects of national importance in the field of biological chemistry and has attracted funds from various agencies.

Through the sincere effort of our faculty we have obtained many University ranks, 90-100% results in both UG and PG courses consistently. Our students have been placed in various companies and many are pursuing their higher educations in India and abroad. We encourage students in doing research, present papers at National conferences, publish their findings in Journals of repute and also participate in co-curricular and extra-curricular activities.

Organizing Committee Members

Dr. Nagarathna A
Principal,
MSRCASC, Bengaluru.

Mr. Prasanna Kumar S. G.
Associate Professor,
HOD of Chemistry/Biochemistry
MSRCASC, Bengaluru

Mr. Bharath K. Devendra
Assistant Professor
MSRCASC, Bengaluru

Mrs. Smriti S.P.
Assistant Professor
MSRCASC, Bengaluru

Dr. Hareesh Kumar. P
Assistant Professor
MSRCASC, Bengaluru

Registration link

<https://forms.gle/YUX1xVNaQ3HpJDW28>



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Report on Value-added program

Title: Exploring the chemistry of nanomaterials

Duration: 30 hours

Course Facilitators: Mr. Bharath Devendra and Mrs. Smrithi. S. P

Program Dates: 09.05.2022 to 31.05.2022

Department of Chemistry & Biochemistry takes initiative for a myriad of co-academic activities with an intent to develop the skills of students in all the respects. In the similar lines, department has organized an add-on course entitled "Exploring the chemistry of Nanomaterials" for UG students of Chemistry. This program is preferably for selected students interested in pursuing further career in the field of research and industry. This program will further inculcate research interest, zeal, enthusiasm and contemporary knowledge in Chemistry research in the aspiring candidates.

The curriculum for this program is framed in order to familiarize the under graduate students about the chemistry of recently emerged newer materials. Nanotechnology has offered a great improvement in science, engineering, medicine, biomedical engineering, food technology, packing technologies, clothes, robotics, and computing from the beginning of twenty-first century. The next decade is likely to witness major strides in the exploitation of nanomaterials, nanotubes and other nanounits and their assemblies. In addition, there will be progress in the discovery and commercialization of nanotechnology based devices and hence enormous job prospects in industry are expected. The program is conducted in offline mode and constituted 30 credit hours with 20 hours theory and 10 hours practical classes.

The course is designed to impart the basic knowledge on the uniqueness in the properties of nanomaterials and their synthetic strategies. Additionally, the advanced carbon nanomaterials such as fullerenes, single walled and multi-walled carbon nanotubes, carbon nanowires, graphene, graphene oxide, reduced graphene oxide, carbon quantum dots and some bioinorganic nanomaterials were also been introduced to the students. An

M S Ramaiah Nagar
MSRIT Post
Bangalore 560 054

T +91 80 2360 0966/8597

+91 80 2360 6905

+91 80 2360 6213

E principal.msrmcsc@gmail.com

W www.msrmcsc.edu.in

Principal,

I.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

elaborate discussion about the various applications proposed for the nanomaterials in energy, environment and biomedicine has also been carried out.

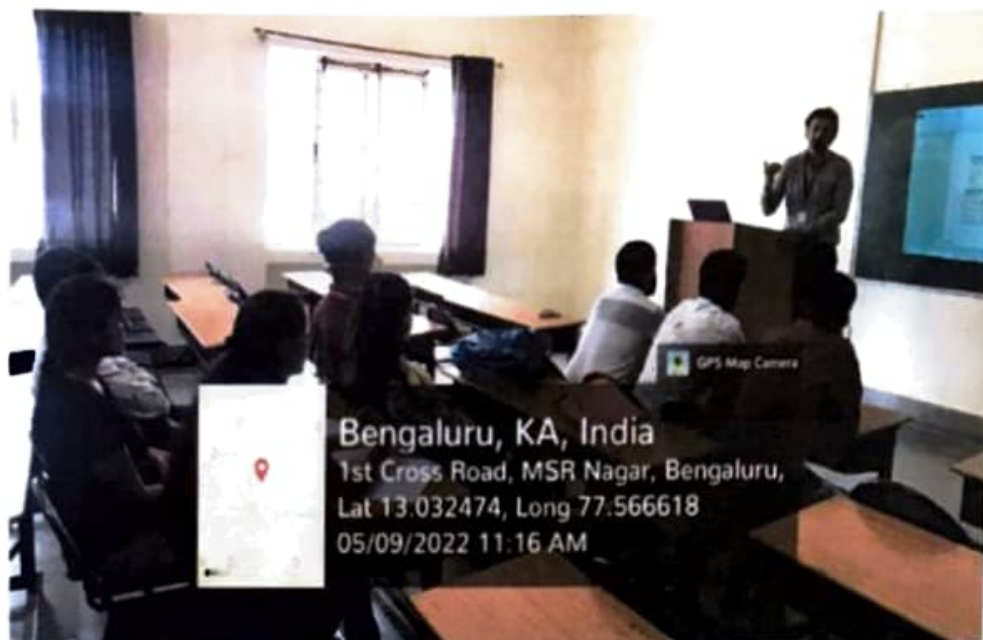


Fig.1- Introduction lecture by the course facilitator, Mr. Bharath K.Devendra



Fig.2- Introduction lecture by the course facilitator, Mrs. Smrithi S. P.

In addition to the theory classes, the value added program on “Exploring the chemistry of nanomaterials” organized by the department of Chemistry/Biochemistry involved the familiarization of different equipments required for the synthesis of nanomaterials like

hydrothermal reactor, vacuum oven, ultrasonicator, ultracentrifuge, vacuum oven etc. to the enrolled students.



Fig.3- Demonstration on the use of hydrothermal autoclave reactor.



Fig.4- Demonstration on the use of hot air oven.

Additionally, hands on experience on the green synthesis of carbon dots, sonochemical and co-precipitation techniques for metal oxides have been provided for the students.

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MSRIT Post, MSR Nagar
Bangalore - 560 054



Fig.5- Hands on experience in nanoparticle synthesis

During the program, a visit to Center for Bio & Energy Materials Innovation (CAM!) Lab, M.S. Ramaiah Institute of Technology has been arranged for the enrolled students. A brief lecture about various synthesis techniques of nanomaterials with emphasis to solution combustion technique has been given by the resource person, Dr. R Hari Krishna, Assistant Professor, Department of Chemistry, M.S. Ramaiah Institute of Technology, Bengaluru.



Fig.6- Lecture on solution combustion synthesis by Dr. R. Hari Krishna, Assistant Professor, Department of Chemistry, M.S. Ramaiah Institute of Technology, Bengaluru.

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The lecture was followed by a demonstration of solution combustion synthesis by the resource person, Mr. Preetham, Junior research fellow (DST-SERB project), Ramaiah Institute of Technology, Bengaluru. The synthesis of alumina and ceria using different organic fuels has been demonstrated by the resource person.

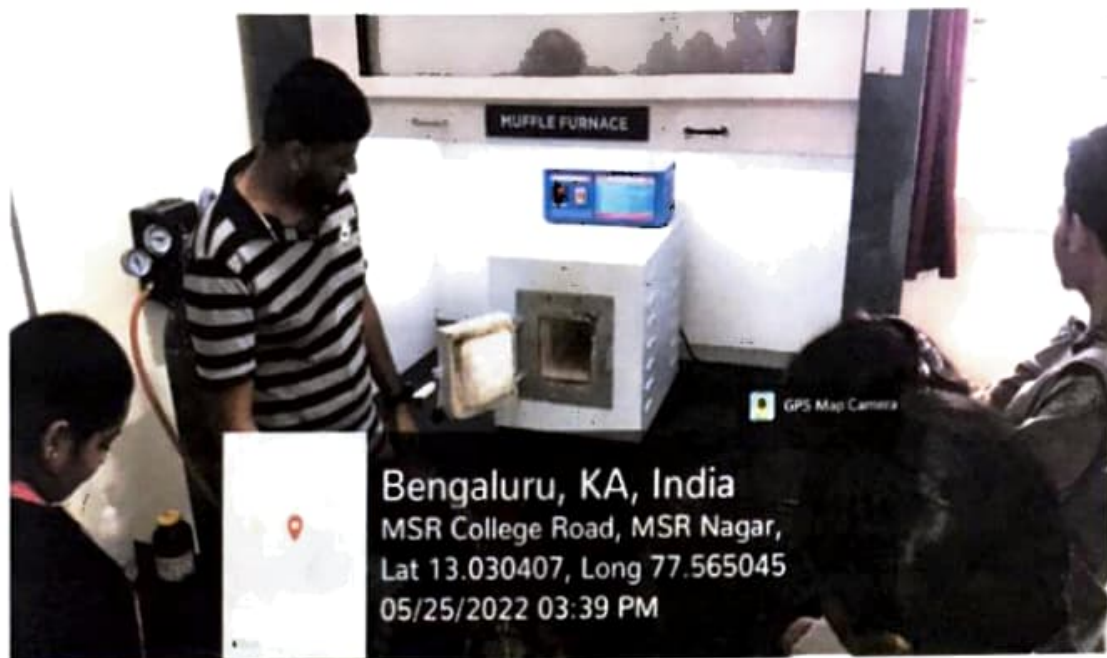


Fig.7-Demonstration on the solution combustion synthesis by Mr. Preetham, Junior Research Fellow, M.S. Ramaiah Institute of Technology, Bengaluru



Fig.8- Images of the synthesized nanomaterials

The program concluded with the demonstration of analysis of the optical properties of the synthesized nanomaterials. The principle and the demonstration of UV-Visible absorption

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spectrophotometer have been provided by Dr. Hareesh Kumar. P, Assistant Professor, Department of Chemistry/Biochemistry, MSRCASC, Bengaluru.

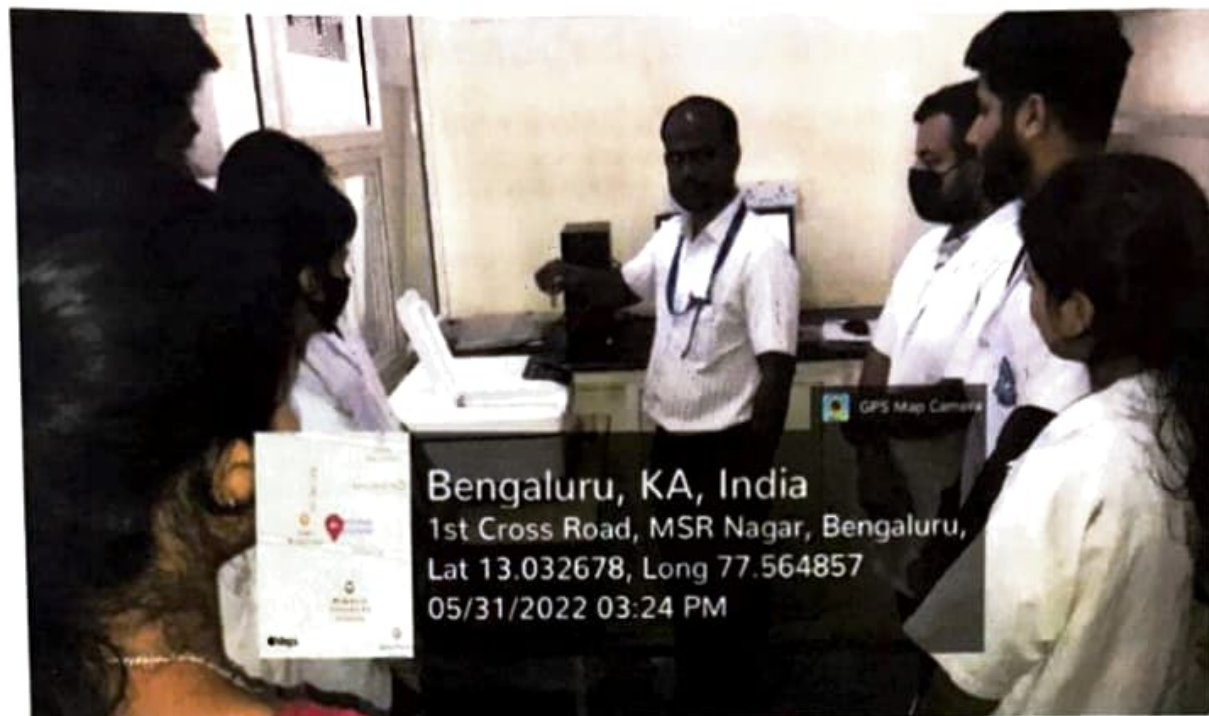


Fig.9- Demonstration/Hands-on session on the UV-Visible absorption Spectroscopy by Dr. Hareesh Kumar. P, Assistant Professor, Department of Chemistry/Biochemistry, MSRCASC

The course commenced on 09.05.2022 and ended on 31.05.2022. At the end of the program, the participants gained the knowledge about the general synthesis techniques, properties and the applications of nanomaterials in various fields. Students from sixth semester B.Sc. course had participated enthusiastically throughout the program and are benefitted.

S. G. Prady
Head of the Department
CHEMISTRY / BIO-CHEMISTRY
M.S. Ramaiah College of Arts,
Science & Commerce
Bangalore - 560 054

Annele
Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

M.S. Ramaiah College of Arts, Science and Commerce

Department of Chemistry/Biochemistry

Value-added program on

"Exploring the chemistry of nanomaterials"

Students List

Sl No	Student name	Register number	Signature
1	SNEHA S	S1914579	Sneha.S
2	PARINITHA MOHAN	S1914542	Parinitha
3	VAISHNAVI K R	S2014607	Vaishnavi
4	SYED MOMIN MUSKAN	S1914592	Muskan
5	TEJASHWINI K	S1914597	Tejashwini
6	CHANDANA A	S1914488	Chandana
7	SUJITH P	S1914586	Sujith
8	SANJANA L NICKAM	S1914569	Sanjana
9	NIVEDHA S	S1914539	Nivedha
10	SPOORTHY BANKALAGI	S1914582	Spoorthy
11	VIHARIKA S	S1914606	Viharika
12	HARSHITHA P	S1914503	Harshitha
13	VAISHNAVI SP	S1914600	Vaishnavi
14	ANKITHA B S	S1914474	Ankitha
15	CHANDRIKA SINGH	S1914489	Chandrika
16	SA VISHRUTHA	S1914562	Vishrutha
17	DIYA JETTY KAZHUNNADIYIL	S1914499	Diya
18	SHWETHA B R ^{Ramzana} ^{Banu.S}	S1914554	Ramzana Banu S
19	KAVYA.M.M	S1914514	Kavya
20	SANDEEP REDDY P.C	S1914567	Sanjeev Reddy P.C
21	Y.VYBHAV KUMAR REDDY	S1914614	Vybhav
22	YASHAVANT ARADHYA C	S1914614	Yashav
23	YAMINI TS	S1914612	Yamini T.S
24	Y MANIKANTAREDDY	S1914610	Manikanta
25	P S AMAYA THEJAS	S1914549	Amaya
26	NIVEDHA.V	S1914540	Nivedha.V
27	VEDIKA RAMYA KUTTANDA	S1914605	Vedika Ramya
28	ROHINI RAMAPPA	S1914559	Rohini.R
29	SR YASHASWINI	S1914561	SR.Yashaswini
30	SUPRIYA R	S1914587	Subodhya.R
31	NEHAL SUBBA	S1914536	N.Subba
32	SHWETHA B R	S1914578	Shwetha B.R

S. G. P. Department
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33	SWARUPA BANERJEE	S1914591	<i>Swarna Banerjee</i>
34	SHRADDA	S1914574	<i>Shradda</i>
35	T N RAMYASHREE	S1914593	<i>Tampayashree N.</i>
36	MANOJ KUMAR S	S1914523	<i>Manoj Kumar</i>
37	MANTHAN SINGH	S1914524	<i>Manthan Singh</i>
38	NAGARAJ MM	S1914534	<i>Nagaraj</i>
39	NAYAN M	S1914535	<i>Nayan M</i>
40	NIKHITHA C THAMMAIAH	S1914538	<i>Nikhitha</i>
41	SURABHI SRINIVAS	S1914588	<i>Surabhi</i>
42	SRIJA ROY NANDY	S1914583	<i>Srija Roy Nandy</i>
43	SUDEEP M	S1914584	<i>Sudeep</i>
44	SUHAS TS	S1914585	<i>Suhas TS</i>
45	SURENDAR L	S1914581	<i>S. Surendar</i>
46	RAJESH S	S1914551	<i>S. Rajesh</i>

S. G. Prasad

Head of the Department
CHEMISTRY / BIO-CHEMISTRY
M.S. Ramaiah College of Arts,
Science & Commerce
Bangalore - 560 054

Shree
Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

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Department of Chemistry/Biochemistry

Value-added program on

“Exploring the chemistry of nanomaterials”

Attendance details

09/06/2022 from 31/06/2022

Sl No	Student name	Register number	9	10	11	12	13	14	16	17	18	18	19	19	20	21	21	23	23	24	24	25	25	26	26	27	28	28	31	33			
1	SNEHA S	S1914579	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
2	PARINITHA MOHAN	S1914542	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
3	VAISHNAVI K R	S2014607	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
4	SYED MOHIN MUSKAN	S1914592	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
5	TEJASWINI K	S1914597	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
6	CHANDANA A	S1914488	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33
7	SUJITH P	S1914586	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
8	SANJANA L NICKAM	S1914569	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
9	NIVEDHA S	S1914539	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
10	SPOORTHY BARKALAGI	S1914582	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33
11	VIHARIKA S	S1914606	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
12	HARSHITHA P	S1914503	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
13	VAISHNAVI SP	S1914600	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
14	ANKITHA B S	S1914474	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	
15	CHANDRIKA SINGH	S1914489	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	31	33	

S.4 Prof
Head of the Department
CHEMISTRY, BIO-CHEMISTRY
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Science & Commerce

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Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

Sl No	Student name	Register number	9/6	10	10	11	12	13	14	14	16	17	18	18	19	19	20	21	23	23	24	24	25	25	26	26	27	28	28	31	31	
16	SAVISHRUTHA	S1914562	1	2	3	4	5	6	7	8	7	10	11	12	13	14	15	16	18	19	20	21	22	23	24	25	26	27	28	28	31	31
17	DIVA JETTY KAZHUNNADYIL	S1914499	0	0	1	1	2	2	3	4	5	6	7	8	7	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23	27	50
18	SHWETHA B R	S1914578	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
19	KAVYA.M.M	S1914514	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
20	SANDEEP REDDY P.C	S1914567	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
21	Y.VYBHAV KUMAR REDDY	S1914614	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
22	YASHAVANT ARADHYA C	S1914614	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
23	YAMINI TS	S1914612	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
24	Y MANIKANTAREDDY	S1914610	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
25	P S AMAYA THEJAS	S1914549	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
26	NIVEDHA.V	S1914540	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
27	VEDIKA RAMYA KUTTANDA	S1914605	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
28	ROHINI RAMAPPA	S1914559	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
29	SR YASHASWINI	S1914561	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
30	SUPRIYA R	S1914587	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	NEHAL SUBBA	S1914536	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
32	Kangana Banerjee SHWETHA B R	S1914578	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
33	Swarupa Banerjee	S1914591	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
34	SHRADDHA	S1914574	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
35	T N RAMYASHAREE	S1914593	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
36	MANOJ KUMAR S	S1914523	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
37	MANTHAN SINGH	S1914524	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

S. G. Head of the Department
CHEMISTRY / BIO-CHEMISTRY
M.S. Ramaiah College of Arts,
Science & Commerce
Bangalore - 560 054

Principal,
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Bangalore - 560 054

Sl No	Student name	Register number	9	10	10	11	12	13	14	14	16	17	18	18	19	19	20	21	21	23	23	24	24	25	25	26	26	27	28	31	31	
38	NAGARAJ MM	S1914534	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
39	NAYAN M	S1914535	1	2	3	4	5	6	7	8	7	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
40	NIKHITHA C THAMMAIAH	S1914538	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
41	SURABHI SRINIVAS	S1914588	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
42	SRIJA ROY NANDY	S1914583	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
43	SUDEEP M	S1914584	1	2	3	4	5	6	7	8	7	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
44	SUHAS TS	S1914585	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
45	SURENDAR L	S1914581	1	2	3	4	5	6	7	8	7	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31
46	RAJESH S	S1914559	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31

Signature of the faculty in charge

1. Smrithi S.P:

Smrithi S.P.

2. Bharath Devendra K:

Bharath Devendra K.

S. S. Prof

Head of the Department
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M.S. Ramiah College of Arts,
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here

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Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)

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DBT Star College Scheme

M.S. RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE

DEPARTMENT OF CHEMISTRY/BIOCHEMISTRY

VALUE ADDED PROGRAMME ON "Exploring the chemistry of nanomaterials" Question paper (Theory)

Instructions: Answer Part A and Part B is compulsory.

Time: 1 Hr

Maximum marks: 15

Part A

Answer any five questions

(5 x 2 = 10)

1. Why do nanomaterials show properties different from their bulk counterparts?
2. Name two top-down synthetic strategies for nanomaterial preparation.
3. Mention two applications of graphene.
4. Give two applications of 2D-metal organic framework.
5. What is the principle behind the use of magnetic nanoparticles in cancer treatment?
6. Write the classification of nanomaterials based of dimension.
7. How nanomaterials work as chemo sensors?

Part B

Answer any one question

(5 x 1 = 5)

1. Explain the biomedical applications of nanomaterials.
2. Explain the bottom-up techniques used for nanomaterial synthesis.
3. Explain the sol-gel synthesis technique.

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DEPARTMENT OF CHEMISTRY/BIOCHEMISTRY
VALUE ADDED PROGRAMME ASSESSMENT MARKS (Theory & Practicals)

Topic: Exploring the chemistry of nanomaterials.

Sl. No.	Register Number	Name of the student	Practical skill (5 M)	Assignment (5 M)	Attendance (5 M)	Test (15 M)	Total (30 M)
1	S1914579	SNEHA S	5	5	5	14	29
2	S1914542	PARINITHA MOHAN	5	5	5	15	30
3	S2014607	VAISHNAVI K R	5	5	5	15	30
4	S1914592	SYED MOMIN MUSKAN	5	5	5	15	30
5	S1914597	TEJASHWINI K	5	5	5	15	30
6	S1914488	CHANDANA A	5	5	5	14	29
7	S1914586	SUJITH P	5	5	5	15	30
8	S1914569	SANJANA L NICKAM	5	5	5	15	30
9	S1914539	NIVEDHA S	5	5	5	15	30
10	S1914582	SPOORTHY BANKALAGI	5	5	5	13	28
11	S1914606	VIHARIKA S	5	5	5	15	30
12	S1914503	HARSHITHA P	5	5	5	15	30
13	S1914600	VAISHNAVI SP	5	5	5	15	30
14	S1914474	ANKITHA B S	5	5	5	15	30
15	S1914489	CHANDRIKA SINGH	5	5	5	13	28
16	S1914562	SA VISHRUTHA	5	5	5	15	30
17	S1914499	DIYA JETTY KAZHUNNADIYIL	5	5	5	13	28
18	S1914578	SHWETHA B R	5	5	5	15	30
19	S1914514	KAVYA.M.M	5	5	5	15	30
20	S1914567	SANDEEP REDDY P.C	5	5	5	15	30
21	S1914614	Y.VYBHAV KUMAR REDDY	5	5	5	15	30
22	S1914614	YASHAVANT ARADHYA C	5	5	5	15	30
23	S1914612	YAMINI TS	5	5	5	15	30
24	S1914610	Y MANIKANTAREDDY	5	5	5	15	30
25	S1914549	P S AMAYA THEJAS	5	5	5	15	30
26	S1914540	NIVEDHA.V	5	5	5	15	30
27	S1914605	VEDIKA RAMYA KUTTANDA	5	5	5	15	30

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25	S1914549	P S AMAYA THEJAS	5	5	5	15	30
26	S1914540	NIVEDHA.V	5	5	5	15	30
27	S1914605	VEDIKA RAMYA KUTTANDA	5	5	5	15	30

28	SI914559	ROHINI RAMAPPA	5	5	5	15	30
29	SI914561	SR YASHASWINI	5	5	5	15	30
30	SI914587	SUPRIYA R	5	5	5	15	30
31	SI914536	NEHAL SUBBA	5	5	5	15	30
32	SI914578	RAMZANA BANU S	5	5	5	15	30
33	SI914591	SWARUPA BANERJEE	5	5	5	15	30
34	SI914574	SHRADDA	5	5	5	15	30
35	SI914593	T N RAMYASHREE	5	5	5	15	30
36	SI914523	MANOJ KUMAR S	5	5	5	14	29
37	SI914524	MANTHAN SINGH	5	5	5	14	29
38	SI914534	NAGARAJ MM	5	5	5	15	30
39	SI914535	NAYAN M	5	5	5	15	30
40	SI914538	NIKHITHA C THAMMAIAH	5	5	5	15	30
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43	SI914584	SUDEEP M	5	5	5	14	19
44	SI914585	SUHAS TS	5	5	5	15	30
45	SI914581	SURENDAR L	5	5	5	15	30
46	SI914559	RAJESH S	5	5	5	15	30

Total no. of students participated: 46


Program coordinator


Head of the Department
Head of the Department
CHEMISTRY / BIO-CHEMISTRY
M S. Ramaiah College of Arts,
Science & Commerce
Bangalore - 560 054


Principal
I.S. Ramaiah College of Arts, Science & Commerce
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Ankitha BS [51914444]

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organised from 09.05.2022 to 31.05.2022 at the Department of Chemistry/Biochemistry,
M.S. Ramaiah College of Arts, Science and Commerce, Bengaluru.

Ankitha

Mrs. Smrithi S.P.

Co-ordinator

Department of Chemistry/Biochemistry

Mr. Bharath K. Devendra

Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry

P. S. G. Prasad

Mr. Prasanna Kumar S G

Head

Department of Chemistry/Biochemistry

Dr. Nagarathna A

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Manoj Kumar S [S1914523]

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Mrs. Smrithi S.P.

Co-ordinator

Department of Chemistry/Biochemistry

Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry

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Head

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Tejashwini K [51914594]

has participated in value added program on ***"Exploring the Chemistry of Nanomaterials"***
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Department of Chemistry/Biochemistry



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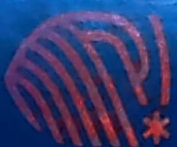
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Supriya R [S1914581]

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Department of Chemistry/Biochemistry

Mr. Bharath K. Devendra
Mr. Bharath K. Devendra

Co-ordinator

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Ramzana Barus [51914554]

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Chandana A [51914488]

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Vaishnavi K R [S2014604]

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Department of Chemistry/Biochemistry


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Sanjana L Nickam [51914569]

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Yamini TS [51914612]

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SA Vishrutha [S1914562]

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Shwetha B R [51914548]

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Department of Chemistry/Biochemistry



Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry



Mr. Prasanna Kumar S G

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Surendar L [51914581]

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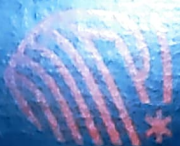
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Head

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Harshitha P [S1914503]

has participated in value added program on ***"Exploring the Chemistry of Nanomaterials"***
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Co-ordinator

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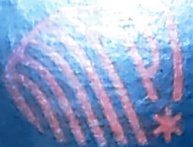
Head

Department of Chemistry/Biochemistry

Dr. Nagarathna A

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Department of Chemistry/Biochemistry



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Co-ordinator

Department of Chemistry/Biochemistry



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Nivedha S [S1914539]

has participated in value added program on ***"Exploring the Chemistry of Nanomaterials"***
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Chandrika Singh [S1914489]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Co-ordinator

Department of Chemistry/Biochemistry



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Head


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Rajesh S [51914551]

has participated in value added program on ***"Exploring the Chemistry of Nanomaterials"***
organised from 09.05.2022 to 31.05.2022 at the Department of Chemistry/Biochemistry,

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Co-ordinator

Department of Chemistry/Biochemistry



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Head

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has participated in value added program on ***"Exploring the Chemistry of Nanomaterials"***
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Sandeep Reddy P C [51914567]

has participated in value added program on *"Exploring the Chemistry of Nanomaterials"*
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Department of Chemistry/Biochemistry



Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry



Mr. Prasanna Kumar S G

Head

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Vaishnavi SP [51914600]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Mr. Bharath K. Devendra

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Shradda [S1914574]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Co-ordinator

Department of Chemistry/Biochemistry



Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry



Mr. Prasanna Kumar S G

Head


Department of Chemistry/Biochemistry



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Suhas TS [51914585]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Head

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Rohini Ramappa [51914559]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Diya Jetty Kazhunnadiyil [51914499]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Nayan M [51914535]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Spoorthy Bankalagi [S1914582]

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P S Amaya Thejas [51914549]

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Yashavant Aradhya C [51914614]

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Nikhitha CThammaiah [S1914538]

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Swarupa Banerjee [S1914591]

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Co-ordinator

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Department of Chemistry/Biochemistry



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Srija Roy Nandy [51914583]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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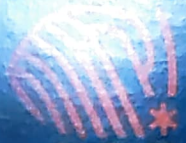
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Co-ordinator

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Head

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Nagaraj MM [S1914534]

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Mrs. Smrithi S.P.

Co-ordinator

Department of Chemistry/Biochemistry

Mr. Bharath K. Devendra
Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry

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Mr. Prasanna Kumar S G

Head

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Y Manikantareddy [51914610]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Co-ordinator

Bharath K. Devendra

Mr. Bharath K. Devendra
Co-ordinator

S.G. Prasanna Kumar S G

Mr. Prasanna Kumar S G
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Co-ordinator

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Sujith P [51914586]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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TN Ramyashree [S1914593]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Department of Chemistry/Biochemistry



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Co-ordinator

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Parinitha Mohan [51914542]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
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Department of Chemistry/Biochemistry


Mr. Bharath K. Devendra

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Kavya MM [51914514]

has participated in value added program on ***"Exploring the Chemistry of Nanomaterials"***
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Certificate of Participation

This Certificate is presented to

Nivedha V [51914540]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
organised from **09.05.2022** to **31.05.2022** at the Department of Chemistry/Biochemistry,
M.S. Ramaiah College of Arts, Science and Commerce, Bengaluru.



Mrs. Smrithi S.P.

Co-ordinator

Department of Chemistry/Biochemistry



Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry



Mr. Prasanna Kumar S G

Head

Department of Chemistry/Biochemistry



Dr. Nagarathna A

Principal,

MSRCASC



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Ranked 62nd in NIRF India ranking by Ministry of Education, Government of India.

Certificate of Participation

This Certificate is presented to

Syed Momin Muskan [51914592]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
organised from 09.05.2022 to 31.05.2022 at the Department of Chemistry/Biochemistry,

M.S. Ramaiah College of Arts, Science and Commerce, Bengaluru.

Mrs. Smrithi S.P.

Co-ordinator

Department of Chemistry/Biochemistry

Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry

Mr. Prasanna Kumar S G

Head

Department of Chemistry/Biochemistry

Dr. Nagarathna A

Principal,

MSRCASc



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Sneha S [519114579]

has participated in value added program on ***"Exploring the Chemistry of Nanomaterials"***
organised from 09.05.2022 to 31.05.2022 at the Department of Chemistry/Biochemistry,

M.S. Ramaiah College of Arts, Science and Commerce, Bengaluru.

Mrs. Smrithi S.P.

Co-ordinator

Department of Chemistry/Biochemistry

Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry

Mr. Prasanna Kumar S G


Head

Department of Chemistry/Biochemistry

Dr. Nagarathna A

Principal,

MSRCASC


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This Certificate is presented to

SR Yashaswini [51914561]

has participated in value added program on **"Exploring the Chemistry of Nanomaterials"**
organised from 09.05.2022 to 31.05.2022 at the Department of Chemistry/Biochemistry,

M.S. Ramaiah College of Arts, Science and Commerce, Bengaluru.


Mrs. Smrithi S.P.

Co-ordinator

Department of Chemistry/Biochemistry


Mr. Bharath K. Devendra

Co-ordinator

Department of Chemistry/Biochemistry


Mr. Prasanna Kumar S G

Head

Department of Chemistry/Biochemistry


Dr. Nagarathna A

Principal,

MSRCASC