

**UGC-Human Resource Development Centre
Goa University**

Refresher Course in Natural Sciences (Online Mode) from 27-07-2021 to 09-08-2021

A REPORT

1. UGC-HRDC, Goa University conducted its Refresher Course in Natural Sciences (Online mode). There were 30 participants were registered for the course. Participants were from the state of Goa, Maharashtra, Karnataka, Punjab, Haryana, Bihar, Tamil Nadu, West Bengal, Utter Pradesh and Delhi. Majority of the participants were from the State of West Bengal. There were 17 male and 13 female participants.
2. Refresher Course was inaugurated by Prof Ramesh Pai, Professor in Physics Goa University. in the presence of Prof. Purva G. Hegde Desai , In-Charge Director and Dr. Ingrid Anne P. Nazareth, Assistant Professor, UGC-HRDC. The Course was Co-ordinated by Prof. Rajendra Gad, Vice Dean, Department of Electronics Goa University. 4 lecture sessions were delivered daily (online) from 10.00 am and 5.00 pm, with a lunch-break of 1 hour.
3. Course was enriched with most eminent resource persons across the country. The theme of the Refresher Course was "Problem and Latest Advancement of Learning Technology trends Higher Education".
4. Some of the topics that were presented by participants are: About my Research, Design of Medical Image Processing Techniques in Present Scenario, Research activity, Subject of Specialization, Jovian Radio Emission, Soft-Core processors for embedded system, Conducting Polymers : Synthesis, Properties and Applications, Heat transfer in a flow with Nan fluids, Embedded Nanostructures based improved photo anodes for efficient Quantum Dot cell, Heat transfer in a flow with Nan fluids, Area of expertise or Specialization is broadly theoretical condensed matter Physics etc.
5. The participants were made to write Major Research Project Proposal as per UGC format, which was later assessed. They also had to submit the presentation Seminars report on the topic of their choice, which were assessed. A participants session was also held (online). At the end the participants had to answer the objective type test, which was evaluated and graded accordingly.
6. Dr. G. M. Naik, Former Prof. Dept. of Electronic, Goa University, delivered valedictory speech to the participants.

We are enclosing herewith:

- a. Time-table
- b. List of Resource persons and topics.
- c. List of Participants sessions with topics
- d. Evaluation by the participants – summary
- e. Participants details.
- f. Participants Evaluation sheets


(Prof. Purva G. Hegde Desai)
In-Charge-Director-UGC-HRDC



DIRECTOR
HUMAN RESOURCE DEVELOPMENT CENTRE
GOA UNIVERSITY
GOA - 403 206

UGC- HUMAN RESOURCE DEVELOPMENT CENTRE

Refresher Course in Natural Sciences

(27-07-2021 to 09-08-2021)

TIME-TABLE

Date/ Day	Session-I 10.00 am to 11.30 am	Session-II 11.30 am to 1.00 pm	Session-III 2.00 pm to 3.30 pm	Session-IV 3.30 pm to 5.00 pm
27-07-2021 Tuesday	Welcome address by Prof. Purva Hegde Desai, I/C. Director, HRDC, Goa University Prof. Ramesh Pai, Chief Guest	Prof. Ramesh Pai		Prof. K.R.S. Priolkar
28-07-2021 Wednesday		Dr. A.R. Desai		Prof. B.R. Shankar
29-07-2021 Thursday		Prof. V.S. Nadkarni		Dr. Vasant Sathe
30-07-2021 Friday		Participants Session (Online) Dr. Jivan S. Parab		Dr. Rahul Mohan
31-07-2021 Saturday		Prof. Vithal Shet Tilvi		Prof. Mahesh H.M.
01-08-2021	SUNDAY			
02-08-2021 Monday		Prof. Pandit Vidyasagar		Participants Session (Online) Dr. JivanS. Parab,
03-08-2021 Tuesday		Prof. Dharendra Bahadur		Participants Session(Online) Dr. Mailattu Kunhanandan,
04-08-2021 Wednesday		Prof. V.V. Kamat		Participants Session (Online) Dr. Sunder Dhuri,
05-08-2021 Thursday		Dr. R. Venkatesan		Prof. Seshanath Bhosale,
06-08-2021 Friday		Dr. D. Sridharan,		Dr. Sudhir Cherukulappurath,
07-08-2021 Saturday		Adv. Shalini Mennenezes,		Test (Online)-MCQ



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Date/ Day	Session-I 10.00 am to 11.30 am	Session-II 11.30 am to 1.00 pm	Session-III 2.00 pm to 3.30 pm	Session-IV 3.30 pm to 5.00 pm
08-08-2021	SUNDAY			
09-08-2021 Monday	Prof. G.M. Naik, Former Professor	Valedictory function Prof. G.M. Naik, Chief Guest		



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Sr.No	Name of Resource Person	Lecture Topic
1	Prof. Ramesh Pai	Origin of the Elements
2	Prof. K.R. S. Priolkar	Materials for medical imaging
3	Dr. A.-R. Desai	Agriculture Research network in India : Major achievement in Horticulture
4	Prof. B.R. Shankar	Number theory and Group theory with applications to Cryptography
5	Prof. V.S. Nadkarni	Polymer Science – an overview
6	Dr. Vasant Sathe	Raman Spectroscopy and application
7	Dr. Rahul Mohan	Polar Regions: the last wilderness and signs of climate change?
8	Prof. Vithal Shet Tilvi	Astrophysics
9	Prof. Mahesh H. M.	Quantum Dots and their applications
10	Prof. Pandit Vidyasagar	NEP and curriculum development and Life in Space
11	Prof. Dharendra Bahadur	Why materials at Nan scale important for Numerous Applications?
12	Prof. V. V. Kamat	Quest for visual Realism: Computer Graphics and it application
13	Dr. R. Venkatesan	Ocean observation-Surface to Deep Ocean
14	Prof. Seshanath Bhosale	Chemistry in everyday life & how to prepare best Scientific Articles
15	Dr. D. Sridharan	Wired, wireless and wireless sensor Networks
16	Dr. Sudhir Cherukulappurath	Light matter interaction at Nan scale
17	Adv. Shalini Menenzes	Intellectual property rights
18	Prof. G. M. Naik	Lasers what is so special about it?



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Name of the Participants & their Presentation Topics

Sr. No	Name of Participants	Participants Presentation Topic
1	Dr. Amit Kumar	About my Research
2	Dr. Arpita Das	Design of Medical Image Processing Techniques in Present Scenario
3	Dr. Ashim Kumar Pramanik	Research activity
4	Dr. Ayesha Alim Khan	Subject of Specialization
5	Dr. Bipasa Raha	Jovian Radio Emission
6	Dr. B.M. Manohara	Subject of Specialization - Nan materials
7	Mr. Caje Francis Pinto	Soft-Core processors for embedded system
8	Dr. Dharmendar Bhagawanji Dupare	Conducting Polymers : Synthesis, Properties and Applications
9	Mr. Gurpreet Singh	Embedded Nanostructures based improved photo anodes for efficient Quantum Dot cell
10	Dr. Hemawati	Heat transfer in a flow with Nan fluids
11	Dr. Jayshree B. Shetty	Graph Theory
12	Dr. Jayee Sinha	Area of Specialization
13	Dr. M. Balachandramohan	Spectroscopy
14	Dr. M. Santhi	Adsorption
15	Dr. Md. Abdul Khan	Subject of Specialization
16	Dr. Md Golam Masud	Specialization
17	Dr. Nongmaithem Kamal Singh	Area of Research work
18	Mrs. Prajoti Chimulkar	The rise of social cooling
19	Dr. Pranav Pandurang Naik	Methods of altering structural magnetic and electrical properties of spinal ferrite nanoparticles
20	Dr. Prasun Ganguly	Subject of Specialization
21	Dr. Popat Dnyandeo Mali	Geology-Hydrology
22	Dr. Rajesh Kumar Neogy	Area of Specialization
23	Dr. Rajib Nath	Area of Specialization
24	Dr. Ritu Bala	Subject of Specialization
25	Dr. Romyani Goswami	Subject of Specialization
26	Dr. Satyaki Kar	Area of expertise or Specialization is broadly theoretical condensed matter Physics
27	Dr. Shobhna Dixit	Humidity sensing properties of zine oxide films
28	Dr. Soma De	Subject of Specialization/Research Interest
29	Dr T. Mohanapriya	Polymer Nano Composite
30	Dr. Yuoraj Shivdas Tamgadge	Subject Specialization



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Evaluation of Refresher Course/Orientation Course Refresher Course in Natural Sciences

Held from 27-07-2021 to 09-08-2021

Total number of Participants 30 numbers in the columns indicate the percentage of Responses.

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1. Comments on training	Most Appropriate	Appropriate	Not Appropriate	No. Response
A)References to your work	43.33%	56.66%	--	--
B) Period of training	80.00%	20.00%	--	--
C) Contents of the Course	80.00%	20.00%	--	--
D) Methods followed	73.33%	26.66%	--	--

Benefits of training	Very High	High	Moderate	Negligible	No. Response
A)In the area of knowledge	63.33%	33.33%	3.33%	--	--
B)In the area of skill	53.33%	43.33%	3.33%	--	--
C)In the area Of attitude	56.66%	43.33%	--	--	--

Hostel facilities:

Are you satisfied with accommodation?

Yes	No	N.A.	No Response
--	6.66%	76.66%	16.66%

Note: The courses held in 2021-22 were in Online mode and hence the hostel facilities/Accommodation may be considered as Not Applicable (N.A.)



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Refresher Course in Natural Sciences from 27-07-2021 to 09-08-2021

Participants Details

Sr. No	Name of the Participants	College Address	Phone No.	E mail ID of Participants
1	Dr. Amit Kumar	Markanda National College Shahabad Haryana 136135	9812351248	amit.vera@gmail.com
2	Dr. Arpita Das	Radio Physics and Electronics.	9123954890	adrpe@caluniv.ac.in
3	Dr. Ashim Kumar Pramanik	School of Physical Sciences Jawaharlal Nehru University New Delhi 110067	9958667264	akpramanik@mail.jnu.ac.in
4	Dr. Ayesha Alim Khan	Dept of Chemistry SPPU	9228513123	alimnk123@gmail.com
5	Dr. Bipasa Raha	D.S. College Katihar Bihar 854015	9434137567	bipasa.raha@gmail.com
6	Dr. B.M. Manohara	Govt First Grade College Davangere 577004	9632552517	manoharabm1@gmail.com
7	Mr. Cajé Francis Pinto	St. Xavier College Mapusa Goa	9823054798	caj786@gmail.com
8	Dr. Dharmendar Bhagawanji Dupare	Shri R.G Rayhod Arts and Science College Murtizapur Akola	9890742262	duparedharam5@gmail.com
9	Mr. Gurpreet Singh	Guru Nanak Dev University College Narot Jaipal Singh Pathankot 145026	8288018439	gurpreet.phynarot@gndu.ac.in gsjosan.phy@gmail.com
10	Dr. Hemawati	Govt First Grade College Manhalli Bidar Karnataka 585403	8970051323	hemaopatil@gmail.com
11	Dr. Jayshree B. Shetty	Govt First Grade College Humnabad Bidar Karnataka 585403	8971508452	jayasherr.bshetty@gmail.com
12	Dr. Jayee Sinha	Dept of Electronic Science University of Calcutta 92 Acharya Prafulla 700009 Kolkata	9073435306	jselc@caluniv.ac.in
13	Dr. M. Balachandramohan	Dept of Physics Erode Arts and Science College Autonomous	9894140938	balamohan2006@gmail.com
14	Dr. M. Santhi	Dept of Chemistry Erode Arts and Science College Autonomous	9842771517	drsanthieac@gmail.com
15	Dr. Md. Abdul Khan	Dept of Physics Aliah University IIA/27 Newtown Kolkata 700160	8961953587	drakhan.phys@aliah.ac.in
16	Dr. Md Golam Masud	Basanti Devi College , West Bengal	8420967007	masudphysicsgm@gmail.com
17	Dr. Nongmaithem Kamal Singh	Physics Dept NDA Khadakwasla Pune Maharashtra	8600306485	kamalnongmaithem@gmail.com
18	Mrs. Prajoti Chimulkar	St. Xavier College Mapusa Goa	9822155668	prajoti15@gmail.com
19	Dr. Pranav Pandurang Naik	Dept of Physics Goa University	9673175648	pranav.naik@unigoa.ac.in



20	Dr. Prasun Ganguly	Physics Dept NDA Khadakwasla Pune Maharashtra	8600305918	gangulyprasun@gmail.com
21	Dr. Popat Dnyandeo Mali	Walchand College of Arts and Science Solapur Maharashtra	9765645762	popatmali2@gmail.com
22	Dr. Rajesh Kumar Neogy	M.L. Arya College Akshaynagar Kasba Purnea Bihar	9038222608/79 80680955	rajesh.neogy@gmail.com
23	Dr. Rajib Nath	Dept of Physics Sidho Kanho Birsha University Sainik School Bengal 723104	9867607279	rajibnath.bu@gmail.com
24	Dr. Ritu Bala	Dept of Basic and Applied Sciences Punjabi University Patiala Punjab	9888842311	ritubala2311@gmail.com
25	Dr. Romyani Goswami	Dept of Physics Surya Sen Mahavidyalaya siliguri	9475393829	rgoswami@suryasencollege.org.in
26	Dr. Satyaki Kar	Aghorekamini Prakash Chandra Mahavidyalaya Subhas nagar Bengai	7548097562	ksatki@gmail.com
27	Dr. Shobhna Dixit	Mahamaya Govt Dgree College Mohana Lucknow 227811	9648339226	shobhna2008@gmail.com
28	Dr. Soma De	Shri Guru Gobind Singh College Sector -26 Chandigarh	8284000663	somade.sggs2014@gmail.com
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30	Dr. Yuoraj Shivdas Tamgadge	Mahatma Fule Arts Com and sitaramji chaudhari science mahavidyalaya warud amravati	9156448340	ystamgadge@gmail.com

