



KDK College of Engineering, Nagpur
Activity Report
2nd International Conference on
“Multidimensional Role of Basic Science in Advanced
Technology” ICMBAT-2022
December 9th & 10th 2022

AIP | Conference Proceedings

Organized By

Department of Basic Science and Humanities
KDK College of Engineering, Nagpur, in association
with

Indian Association for Radiation Protection (IARP),
Institution's Innovation Council (IIC)
Society for Technologically Advanced Material of India (STAMI)
And
And Institution of Engineers(India)(IEI)
Venue: Auditorium, KDKCE, Nagpur



Submitted by-
Dr Mrs. Sangita P. Wankhede, H.O.D. Physics
Convener of Conference ICMBAT-2022

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K.D.K.college of Engineering
Department of Physics

NOTICE

It is to be noted that the department of Basic Science of K.D.K. College of Engineering is going to organize 2nd International conference on "Multidimensional Role of Basic Science in Advanced Technology" ICMBAT-2022 on 9th-10th December, 2022. Organizing Committee is formed as follows for smooth conduction of Program.

CONVENERS will be:

Dr.Mrs. S.P. Wankhede Dr.G.H.Agrawal,
Head, Dept.of Physics Head, Dept. of Basic Sci. and Humanities

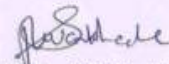
CO- CONVENERS will be :

Dr. K.B. Bajpai Dr.K.A. Gedekar Dr.P. B. Gour
Asst. Prof.Maths Asst.Prof. Physics Asst.Prof.Chemistry

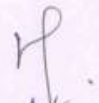
Committee Members will be:

Prof. (Mrs.) S. S. Kshirsagar, Head, Department of Mathematics
Dr. A. R. Dhoble, Assoc. Prof. Mathematics
Dr.T. R. Shelke, Asst.Prof. Physics
Dr. Ms. A. M. Ramteke, Asst.Prof.Chemistry
Mrs. V.V. Bower Asst.Prof. Humanities.
Dr.Ms. D. P.Jasudkar, Asst.Prof. Chemistry

CONVENERS



Dr.Mrs. S.P. Wankhede
Head, Dept.of Physics



Dr.G.H.Agrawal
Head, Dept. of Basic Sci. and Humanities

Date: 6-09-2022

Copy to: (1) Principal
(2) Vice Principal

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Basic Science & Humanities (First Year)
Activity Report Session: 2022-23

Name of Activity: 2 nd International conference on “Multidimensional Role of Basic Science in Advanced Technology” ICMBAT-2022			
Date	Department	Committee	Name of Co-ordinator
From 9 th to 10 th December 2022	Department of Basic Science and Humanities	Organizing Committee Convener of Conference: Dr. Mrs.Sangita P. Wankhede, and Dr. G. H. Agrawal Co-conveners: Dr. Pankaj Gour & Dr. Kailash Gedekar Coordinators: (1)Dr. Tushar R. Shelke (2) Dr. Dipali P. Jasudkar (3) Dr. Archana M. Ramteke (4) Mrs. Venus V. Bower	Convener of Conference: Dr. Mrs. Sangita P. Wankhede, Co-Conveners: Dr. K.B. Bajpai Dr. Pankaj Gour & Dr. Kailash Gedekar
Time	Venue	No. of Participants Male: 45 Female: 55	In Campus
Conference Schedule is attached	KDK College of Engineering Nagpur	Total: 100	Offline
Assisting Faculty:	(1) Dr. Tushar R. Shelke (2) Dr. Dipali P. Jasudkar (3) Dr. Archana M. Ramteke (4) Mrs. Venus V. Bower		

Brief Information About the Activity:

Topic of Activity	2 nd International conference was organized on “Multidimensional Role of Basic Science in Advanced Technology” ICMBAT-2022. Papers were called on Multidisciplinary topics related to Physics, Chemistry, and Applied Mathematics. Applications of Applied Science in Engg & Tech.
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Objectives	<ul style="list-style-type: none"> • The main objective I to update and upgrade knowledge about science and technology. • The primary focus of the conference is to promote research in Basic Science. • To provide an ideal platform and opportunity for the scientific community, academicians, industrialists, and policymakers all over the globe to keep abreast of the latest developments in their respective scientific/technical areas. • To establish connections with other individuals and research groups. • To exchange information not only limited to the conference but on a regular basis by establishing relationships with each other. • To present up-to-date research and the results in their respective scientific/technical areas. To provide a strong orientation towards scientific research in the areas of basic sciences, engineering, and technology.
Methodology	Arranged all Lectures in offline mode through Power Point presentations.
Outcome	This conference provided an intellectual forum to update the knowledge and to focus on innovative research activities in the field of Science and Technology for Participants. After this Conference following POs were attained PO6, PO7, PO8, PO9, PO10, PO12

Proofs & Documents Attached (Tick Mark the Appropriate)

1. Notice & Letter: Notices to Participants were given through Brochure	2. List of Participants and Technical Program: Attached files herewith	3. Report of Activity: Attached file herewith along with	4. Expenditure: Attached file herewith	5. Feedback Forms/report before the conference: Attached file herewith
6. Feedback Forms/report after the conference: Attached file herewith	7. Impact analysis	8. News Clips: Attached file herewith	9. Certificate given to Participants: Attached file herewith	10: Photographs: Attached file herewith

IQAC cell

Name & Signature of Co-ordinator	Name & Signature of HOD/ Committee In-Charge	Signature of Vice Principal	Name, Signature & Seal of IQAC Co-ordinator
Dr. Mrs. S. P. Wankhede	Dr. G. H. Agrawal	Dr. A. M. Badar	Dr. P.D. Khandait

All Required Documents: All Required Documents are attached herewith in the attached file

Objectives	<ul style="list-style-type: none"> • The main objective I to update and upgrade knowledge about science and technology. • The primary focus of the conference is to promote research in Basic Science. • To provide an ideal platform and opportunity for the scientific community, academicians, industrialists, and policymakers all over the globe to keep abreast of the latest developments in their respective scientific/technical areas. • To establish connections with other individuals and research groups. • To exchange information not only limited to the conference but on a regular basis by establishing relationships with each other. • To present up-to-date research and the results in their respective scientific/technical areas. To provide a strong orientation towards scientific research in the areas of basic sciences, engineering, and technology.
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IQAC cell

Name & Signature of Co-ordinator	Name & Signature of HOD/ Committee In-Charge	Signature of Vice Principal	Name, Signature & Seal of IQAC Co-ordinator
 Dr. Mrs. S. P. Wankhede	 Dr. G. H. Agrawal	 Dr. A. M. Badar	 Dr. P.D. Khandait

All Required Documents: All Required Documents are attached herewith in the attached file

Report on ICMBAT Conference (9th & 10th of December 2022)

The Department of Basic Sciences, **K. D. K. college of Engineering, Nagpur** organized an **International Conference on, “Multidimensional Role of Basic Science in Advanced Technology,”** during 9th & 10th of December 2022 at **K. D. K. Campus**. The Chief Guest the of Inaugural function **Dr. D. K. Aswal, Director**, Health Safety and Environment Group at **Bhabha Atomic Research Centre, Mumbai** congratulated the K. D. K. College of Engineering for inviting eminent dignitaries from different sectors to get a better understanding of researches in Basic Sciences and to establish research relationships with global partners for future collaboration. The Guest of Honor **Dr. G. Chourasiya**, (Ex-Scientist G) Formerly Head, Medical Physics & Training section, Radiological Physics & advisory Division, (RP&AD), BARC, Mumbai and **Dr. S. V. Moharil**, Ex- Head, Department of Physics, R.T.M., Nagpur University, Nagpur said that the progress of technology lies in researches in Basic Sciences. **Principal Dr. D. P. Singh** gave the welcome address. **The Convener of the conference Dr. Mrs. S. P. Wankhede** gave brief introduction of the conference and of Physics Department. She told that the conference received overwhelming response both nationwide and internationally from the authors. The selected and peer reviewed full length papers will be published in AIP (American Institute of Physics) USA Conference Proceedings, a web of science, Scopus and INSPEC indexed publication. The president of the function was **Shri. Ranjendraji Mulak**, Secretary BCYRC and Ex. Minister Govt. of Maharashtra. **Shri. Yashrajji Mulak**, Treasurer of BCYRC, Nagpur congratulated the organizing committee. Vice-Principal **Dr. A. M. Badar**, HOD Basic Science **Dr. G. H. Agrawal** and Co-conveners **Dr. Kavita Bajpai**, **Dr. K. A. Gedekar** and **Dr. P. B. Gour** were present on the dais. On this occasion a Conference Proceeding containing abstracts of papers received was unveiled. Galaxy of eminent guests and renowned speakers **Prof. R. P. Pant**, Associate Prof., University of **Johannesburg, South Africa**, **Prof. Dr. Anindya Datta**, Department Chemistry **Institute of Technology Bombay**, **Dr. Seshadri Murali Iyengar**, Secretary, IARP Scientific Officer H, Head, Emergency Preparedness and Response Section, RSSD, **BARC, Mumbai**, **Dr. Rajendra Patrikar** Professor at **VNIT Nagpur** graced the conference.

Dr. P. B. Gour proposed the vote of thanks during the inaugural function. The inaugural function was anchored by **Mrs. V. Bower**.

All the heads of the departments, Deans and staff of KDKCE, were present in the function. **Dr. A. P. Fartode**, **Prof. S. S. Kshirsagar**, **Dr. T. R. Shelke**, **Dr. A. M. Ramteke**, **Dr. A.R. Dhoble**, **Dr. D.P. Jasudkar**, **Prof. A. Pande**, **Prof. V. Vekhande** worked hard for the success of the conference. The **valedictory function** was held in the afternoon session on 10th and conducted by **Prof. Venus Bower**. **Dr. V. K. Khare**, **Ex-Director (PM&A)**, UPPTCL was Chief Guest of the function.

Co-convener **Dr. Kavita Bajpai** proposed the vote of thanks. Best Oral and Poster Presentation awards were distributed. The certificates were presented to all the participants.

CONVENER ICMBAT 2022

Dr. Mrs. S.P. Wankhede
Head Dept.of Physics
KDKCE, Nagpur

List of Registered Participants

Sr.No	Name of the Participant	Name of College/ Organization with Place	Gender
1	Chandni Singh	Guru Ghasidas Central University, Koni, Bilaspur (C.G.)	FEMALE
2	Miss. Khushbu Ashokkumar Rathi	Polymer Nanotech Laboratory, Department of Physics, Rashtasant Tukadoji Maharaj Nagpur University, Nagpur	FEMALE
3	MAHELAQUA HAQUE	DEPARTMENT OF PHYSICS, RASHTRASANT TUKADJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA 440033	FEMALE
4	Nutan Vasanta Mangate	Department of Physics, Visvesvaraya National Institute of Technology, Nagpur	FEMALE
5	Zena Denzil Joseph	Post Graduate Teaching Dept.(Physics) RTMNU	FEMALE
6	Pragati Mishra	Siddharth University, Kapilvastu, Siddharth Nagar, uttar pradesh, India	FEMALE
7	Manisha Gopal Verma	Visvesvarya National Institute of Technology Nagpur	FEMALE
8	DIKSHA SURESH LINGAIT	Visvesvaraya National Institute of Technology, Nagpur	FEMALE
9	Ku.Rohini D.Khutafale	Shri.D.M.Burungale science and arts college shegaon	FEMALE
10	Rohini Madhukar Masal	Shri.D.M Burungle collage of arts and science, Shegaon	FEMALE
11	Sangeeta Itankar	Suryodaya college of Engg. & Technology,Nagpur	FEMALE
12	Dr. Purna Ramnath Modak	Rashtrapita Mahatma Gandhi Arts, Commerce and Science College, Saoli	FEMALE
13	Dr Aparna Harshvardhan Rangari	KZS SCIENCE COLLEGE BRAMHANI KALMESHVAR	FEMALE
14	Dr.Yogita P.Mahant	Nabira Mahavidyalaya,Katol	FEMALE
15	Dr. Amandeep Kaur	Chitkara University, Punjab	FEMALE
16	Dr Shalini Patil	Government Autonomous P.G.College Chhindwara M.P	FEMALE
17	SUPRIYA M.KSHETRAPAL	S.F.S. COLLEGE SADAR , NAGPUR	FEMALE
18	Dr. Vijaya Shri Mall	Department of Physics, D. D. U. Gorakhpur University, Gorakhpur	FEMALE
19	Ms. KISHORI SURESH SALOTKAR	Department of Physics, R. T. M. University Nagpur, India	FEMALE
20	Bharti Purushottam Bawanthade	Anand Niketan College, Anandwan Warora	FEMALE
21	Nidhi Paroha	Rani durgawati university	FEMALE
22	Rohinee Manish Barai	Poornima University, Jaipur Rajasthan	FEMALE
23	Monika Shah	Bhupal Nobles' University	FEMALE
24	Jagdeep kaur	Department of Physics, School of Basic and Applied Sciences, RIMT University, MandiGobindgarh, Punjab, India-140406	FEMALE
25	Dr. Suwarna Sawde	Priyadarshini College of Engineering, Nagpur.	FEMALE
26	SMITA CHANDAR TOLANI	ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING AND TECHNOLOGY, NAGPUR	FEMALE
27	Ishu Sharma	Amity University Dubai	FEMALE
28	Sapana singh	government science college , jabalpur(m.p)	FEMALE
29	Arti Ram Wadhekar	Deogiri Institute of Engineering & Management Studies,Aurangabad	FEMALE
30	Dr. Swati Fartode	Yeshwantrao Chavan College of Engineering, Nagpur	FEMALE
31	Dr Aarti Muley	SIES College of Arts, Science & Commerce (Autonomous), Sion(west), Mumbai-22	FEMALE
32	Dimpi Gupta	Guru Ghasidas University , Bilaspur	FEMALE
33	Nishita R, Santoshi	Shri D.M. Burungale College of Arts and Science, Shegaon	FEMALE
34	Sakshi K. Shende	Shri D.M. Burungale College of Arts and Science, Shegaon	FEMALE
35	Pratiksha R. Shegokar	Shri D.M. Burungale College of Arts and Science, Shegaon	FEMALE
36	Dr. S.V. Gaikwad	L.A.D. College, Nagpur	FEMALE
37	Kanchan S. Deshmukh	B.D. College of Engineering, Sevagram	FEMALE
38	Ms. Vaishali C. Lodhe	Agnihotri School of Technology, Wardha	FEMALE
39	Bharati Tatte	K.D.K.College of Engineering,Nagpur	FEMALE

40	Dr.Mrs. Sunanda P.Khandait	K.D.K.College of Engineering,Nagpur	FEMALE
41	Dr.Kavita Bajpai	K.D.K.College of Engineering,Nagpur	FEMALE
42	Sonal Tatte	Department of Chemistry, O P Jindal University, Raigarh, 496109, India	FEMALE
43	Dr.A.M.Ramteke	K.D.K.College of Engineering,Nagpur	FEMALE
44	Mrs.Smita Kshirsagar	K.D.K.College of Engineering,Nagpur	FEMALE
45	Dr. (Mrs). S.P.Wankhede	K.D.K.College of Engineering,Nagpur	FEMALE
46	Dr. Dipali P. Jasudkar	K.D.K.College of Engineering,Nagpur	FEMALE
47	Mrs.Venus Bawar	K.D.K.College of Engineering,Nagpur	FEMALE
48	Ms.Poonam Hurkat	K.D.K.College of Engineering,Nagpur	FEMALE
49	Ms.Priyal deshmukh	K.D.K.College of Engineering,Nagpur	FEMALE
50	Mrs.Pandharipande	K.D.K.College of Engineering,Nagpur	FEMALE
51	Mugdha Dumbhare	G H Raison College of Engineering, Digdoh Hills, Nagpur-440016	FEMALE
52	Babita G. Yadao	Dada Ramchand Bakhru Sindhu Mahavidyalaya Kaka Tilokchand Marg, Panchpaoli,Nagpur, Maharashtra, India - 440 017.	FEMALE
53	Ku.Nivedita Kherde	Shri.Shivaji Science College,Amravati	FEMALE
54	Dr. Mrs.Shilpa Pande	2Department of Applied Physics, Laxminarayan Institute of Technology, RTMNU, Nagpur	FEMALE
55	Dr. Mrs.Bhavana Butey	G.H. Raisoney College of Engineering, Nagpur	FEMALE
56	Satish Deoraoji Kene	R.K.D.F. University, Bhopal	MALE
57	Shubham Ghumde	Department of physics,RTM nagpur university,Nagpur	MALE
58	Pratik Pradip Talmale	Raison College Of Engineering,Nagpur	MALE
59	Mr. Arvind Dhurve	Dept. of Physics, APS University, Rewa (M.P.)- India	MALE
60	LALIT KUMAR SETHY	Visvesvaraya National Institute Technology, Nagpur	MALE
61	NAYAN SARKAR	Visvesvaraya National Institute Of Technology, Nagpur	MALE
62	Shikhil Shivdas Wanjari	Shri Mathuradas Mohota college of Science	MALE
63	Amit Vasant Gongal	Shri Mathuradas Mohota College of Science, Nagpur	MALE
64	Shantanu Prashant Mahant	Shri Ramdeobaba College of Engineering and Management, Nagpur	MALE
66	Deoram Vithoba Nandanwar	Shri Mathuradas Mohota College of Science Nagpur	MALE
67	Dr.Ganesh Dnyaneshwar Tambatkar	SHRI.D.M.BURUNGALE SCIENCE AND ARTS COLLEGE SHEGAON	MALE
68	Dr. Nilesh Sureshrao Ugemuge	Anand Niketan College Warora.	MALE
69	Dr. Alfred Yusuf Shaikh	Indira Gandhi Kala Mahavidyalaya , Ralegaon	MALE
70	Ashish S Moon	RKDF Bhopal, Madhya Pradesh	MALE
71	Gopal Narayan Warutkar	Anand Niketan College Warora	MALE
72	Dr MILIND RAJESH BELKHEDKAR	SHRI SHIVAJI COLLEGE OF ARTS COMMERCE AND SCIENCE AKOLA	MALE
73	Dr. Karan Singh Vinayak	D.A.V. College, Sector 10, Chandigarh -160010 (India)	MALE
74	Dr. Prabhakar D. Khandait	K.D.K.College of Engineering,Nagpur	MALE
75	Dr. Vivek Korde	Swaminarayan Siddhanta Institute of Technology, Nagpur	MALE
76	Dr. Ashok A. Mistry	Anand Niketan College Warora	MALE
77	Dr. M.N. Giriya	Smt. Radhikatai Pandav College of Engineering , Nagpur	MALE
78	Mr.Ajay Yeol	Department of Physics,Hislop College,Nagpur	MALE
79	Ganesh Tambatkar	Shri.D.M.Burungale Science &Arts College, Shegaon- 444 203	MALE
80	Dr. Vinayak D. Vaidya	K.D.K.College of Engineering,Nagpur	MALE

81	Mr.Swapneel R. Satone	K.D.K.College of Engineering,Nagpur	MALE
82	Mr.Ashish Selokar	Mohsinbhai Zaweri Mahavidyalaya, Desaijanj (Wadsa), India-441207	MALE
83	Dr.A.P.Fartode	K.D.K.College of Engineering,Nagpur	MALE
84	Dr.Tushar shelke	K.D.K.College of Engineering,Nagpur	MALE
85	Sahil Wankhede	Department of Mechanical Engineering, University of Massachusetts Amherst, MA 01003, U.S.A 2Center for Personalized Health Monitoring, (CPHM), Institute for Applied Life Sciences (IALS), MA 01003, U.S.A	MALE
86	Dr.KailashA.Gedekar	K.D.K.College of Engineering,Nagpur	MALE
87	Dr.P.B.Gour	K.D.K.College of Engineering,Nagpur	MALE
88	Dr. A.R. Dhoble	K.D.K.College of Engineering,Nagpur	MALE
89	Mr.GirishRaut	K.D.K.College of Engineering,Nagpur	MALE
90	Mr. V.N. Tale	K.D.K.College of Engineering,Nagpur	MALE
91	Mr.Ajay Vekhande	K.D.K.College of Engineering,Nagpur	MALE
92	Mr.A.N.Pandey	K.D.K.College of Engineering,Nagpur	MALE
93	Karan Singh	D.A. V. College, Chandigarh	MALE
94	Aashish Selokar	Mechanical engineering, KG Reddy College of Engineering and Technology, Hyderabad	MALE
95	Dr. G. H. Agrawal	K.D.K.College of Engineering,Nagpur	MALE
96	Shekhar Gahane	Department of Plastics and Polymer Technology, Laxminarayan Institute of Technology, RTMNU, Nagpur.	MALE
97	Rishi Pal Chahal	Department of Physics, Chaudhary Bansi Lal University, Bhiwani (Haryana)-127021, India	MALE
98	Dr. Rahul Burange	K.D.K.College of Engineering,Nagpur	MALE
99	Mr.Kartik Ingole	K.D.K.College of Engineering,Nagpur	MALE
100	Dr. Mrs. Chandwani	K.D.K.College of Engineering,Nagpur	MALE



Technical Programme

2nd International conference on “Multidimensional Role of Basic Science in Advanced Technology”

ICMBAT-2022

9th-10th December, 2022

Organized by

Department of Basic Science

KDK College of Engineering, Nagpur in association with IARP, STAMI, IIC and IEI

S.N.	Date	Time	Programme
1	9 th Dec.-2022	9.30 a.m.- 10.30 a.m.	Registration and Breakfast (Venue-KDKCanteen)
2	9 th Dec.-2022	10.30 a.m.- 11.30 a.m.	<p>Inaugural function</p> <p>Venue: Auditorium, WingA</p> <p>Chief guest: Dr. D. K. Aswal, Director, Health Safety and Environment Group Bhabha Atomic Research Centre, Mumbai</p> <p>Guest of Honor: Dr. G. Chourasiya, (Retd. Scientist G) Formerly Head of, Medical Physics & Training section, Radiological Physics & Advisory Division (RP&AD), BARC, Mumbai &</p> <p>Dr. S. V. Moharil, Ex- Head, Department of Physics, R.T.M., Nagpur University, Nagpur.</p>
3	9 th Dec.-2022	11.30 a.m.- 12.15 noon 12.15p.m.- 1.00pm	<p>Keynote Session</p> <p>Venue: Auditorium, WingA</p> <p>Session Chair: Dr. G. Chourasiya, (Retd. Scientist G) Formerly Head of, Medical Physics & Training section, Radiological Physics & Advisory Division, (RP&AD), BARC, Mumbai</p> <p>Keynote Speaker: Session 1: Dr. D. K. Aswal, Director, Health Safety and Environment Group at Bhabha Atomic Research Centre</p> <p>Topic: Radiation, Nuclear Energy and Environment: All good for human development index of a nation</p> <p>Keynote Speaker: Session 2: Dr. S. V. Moharil, Ex-Head, Department of Physics, R.T.M., Nagpur University, Nagpur.</p> <p>Topic: <i>Materials For Mankind</i></p>

4	9 th Dec.-2022	1.00 p.m.- 2.00 p.m.	Lunch(Venue-KDK Canteen)
5	9 th Dec.-2022	2.00 p.m.- 2.30 p.m. 2.30 p.m.- 3.00 p.m. 3.00 p.m.- 3.30 p.m. 2.00 p.m.- 3.00 p.m.	<p align="center">Invited Session 1</p> <p align="center">Session Chair:Dr. Subhash B. Kondawar</p> <p align="center">Professor, Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University</p> <p align="center">Invited talk 1:</p> <p align="center">Dr. Rajendra Patrikar Professor at VNIT Nagpur at Center of VLSI and Nanotechnology</p> <p align="center">Topic: <i>Emerging Nanotechnology: Indian Scenario</i></p> <p align="center">Invited talk 2:</p> <p align="center">Dr. G. CHOURASIYA, (Retd. Scientist G) Formerly Head, Medical Physics & Training section, Radiological Physics & advisory Division, (RP&AD), BARC, Mumbai and Associate Professor, Homi Bhabha National Institute (HBNI) , Mumbai</p> <p align="center">Topic: <i>Radiation Protection Standards</i></p> <p align="center">Invited talk 3:</p> <p align="center">Dr.Sumedha Tamboli, Department of Physics, University of the Free State, Bloemfontein, South Africa</p> <p align="center">Topic: <i>'Luminescent ions doped phosphors for Optical thermometry'</i></p> <p align="center">Invited Session 2 (In Parallel)</p> <p align="center">Session Chair: Mrs. S.S.Khirsagar, HoD, Department of Mathematics, KD KCE, Nagpur.</p> <p align="center">Session Co-Chair Dr. Ms. K.B. Bajpai, Asstt. Prof. Department of Mathematics, KDKCE, Nagpur.</p> <p align="center">Invited talk 1:</p> <p align="center">Dr Rajendra Pant, Associate Professor, Department of Mathematics, University of Johannesburg, South Africa.</p> <p align="center">Topic: <i>On the existence and convergence of fixed points of nonlinear operators with applications</i></p>

6	9 th Dec.-2022	3.30 p.m.- 3.45 p.m.	Networking Time (High Tea)
7	9 th Dec.-2022	3.45 p.m.- 5.30 p.m.	Oral Paper presentation Session 3 Venue: Auditorium, Wing A Session Chair: Prof. R. R. Patil Prof., Institute of Science, Nagpur Oral Paper presentation by participants. This session covers Paper id OP1 to OP3, OP5 to OP8, PP-19 & PP-47 (offline). PP-05 PP16 and PP17(Online)
8	9 th Dec.-2022	3.45 p.m.- 5.30 p.m.	Poster presentation session 4 (Parallel) Venue: Room No. B 111, First Floor, Wing B Poster Paper presentation by participants. This session covers Paper id PP1 to PP 48 (Excluding PP-16, 17, 19 & 47) & Oral Poster OP-4 & OP-12.
9	10 th Dec.-	9.30 a.m.-	Breakfast (Venue-KDK Canteen)
10	10 th Dec.- 2022	10.30 a.m.- 11.30 a.m.	Oral Paper presentation Session 5 Venue: Auditorium, Wing A Session Chair: N.S. Ugemuge Asso. Prof., Department of Physics, Anand Niketan College, Anandwan, Warora Oral Paper presentation by participants. This session covers Paper id OP09 to OP13, PP17
11	10 th Dec.- 2022	11.30 a.m.- 12.15 pm	Invited Session 6 Venue: Auditorium, Wing A Session Chair: Dr. S.V. Moharil Ex- Head, Department of Physics, RTMNU, Nagpur. Invited talk 1: Dr. Seshadri Muraliyengar, Secretary, IARP Scientific Officer H, Head, Emergency Preparedness and Response Section, SSD, BARC, Mumbai. Topic: <i>Radiation Safety and Beneficial Effects of Nuclear Technology</i>

		12.15 pm- 1.00 p.m.	Invited talk 2: Dr.V.K.Khare, Formerly Executive Director Power Grid Corporation India Limited Topic: <i>Smart Grid</i>
12	10 th Dec.- 2022	1.00 p.m.- 2.00 p.m.	Lunch Venue- KDKCanteen
13	10 th Dec.- 2022	2.00 p.m.- 2.45 p.m.	Invited Session 6 (In Continuation) Venue: Auditorium, Wing A Invited talk 3: Prof. Dr. Anindya Datta, Department Chemistry Institute of Technology Bombay Topic: <i>Excited state phenomena in semiconductor nanocrystals</i>
14	10 th Dec.- 2022	2.00 pm- 3.30 pm	Valedictory Session Chief guest: Dr. V.K.Khare Formerly Director (PM&A), Uttar Pradesh Power Transmission Corporation (UPPTCL) and also Formerly Executive Director, Power Grid Corporation India Limited Guest of honor: Dr. G. CHOURASIYA , (Retd. Scientist G) Formerly Head, Medical Physics & Training section, (RP&AD), BARC, Mumbai Dr. S.V.Moharil , Ex- Head, Department of Physics, RTMNU, Nagpur Dr. Seshadri Murali Iyengar , Secretary, IARP Scientific Officer H, Head, Emergency Preparedness and Response Section, SSD, BARC, Mumbai.
16	10 th Dec.- 2022	3.30 p.m.- 3.45p.m	Networking Time (High Tea)

Expenditure for organizing 2nd “International conference on Multidimensional Role of Basic Science in Advanced Technology” on 9th-10th December 2022:

Sr. No.	Heading	Details		Approx.Amount (in Rs.)
1	Publicity	Pre-conference Announcements Website space and Website Design, Brochure Printing		5000+5000=10000/-
2	Remuneration	03Experts	TA and Remuneration	(12600+4000+4000=20,600/-) 20,600/-
3	Accommodation and hospitality	Hotel Charges for Guest	Hospitality charges for guests	12,000/-
4	Daily Expenses	Saplings/Bouquet+Stage decoration + Steel Sofa		12000/-
		Tea + Snacks +lunch(For Guests)+Bislery		6000/-
		Breakfast/Snacks + Tea /coffee(for participants) Tea/coffee:(100 persons) Two Days Breakfast/Snacks:50×140=7000 Lunch:180×200(2 days)=36,000		45000/-
5	Printing	Flex Banner + Receipt Book		2000/-
		Certificates for participants 8×100		800/-
		Mementos (250×20=5000) for speakers+ committee members+ reviewers+ guests+ Momentos (150X6=900) for student awards		6000/-
		Conference proceeding (Limited copies)		1500/-
		Photography		3000/-
7	Stationary and Miscellaneous items	Postage, envelopes, arrangement for poster presentation, Shawl-Shripal for guests		1500/-
8	Kits/folders provided to participants+ guest	100×150		8000/-
	Total			1,28,400/-

	Feedback and IMPACT ANALYSIS, 2nd International Conference on “Multidimensional Role of Basic Science in Advanced Technology” ICMBAT-2022 - 2022-23												
	Pre Conference Feedback Analysis												
		Que	1	2	3	4		1	2	3	4		
Sr. No.	Name of Participant	Name of Institution	Kindly give your valuable feedback on Registration process	Where did you hear the conference?	How do you feel about the location of the conference?	Registration Type		weightage Value					weightage %
1	SMITA CHANDAR TOLANI	ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING AND TECHNOLOGY	4	4	4	3		40	40	40	30	150	93.8
2	Amandeep Kaur	Chitkara University, Punjab	4	4	4	4		40	40	40	40	160	100.0
3	Swati Fartode	YCCE	3	4	4	3		30	40	40	30	140	87.5
4	Yogita Mahant	Nabira college katol	4	3	4	4		40	30	40	40	150	93.8
5	Ashay Devidas	Lovely Professional University,	3	4	3	3		30	40	24	30	124	77.5

	Shende	Punjab											
6	Dr. Shruti Patle	Priyadarshini J L College of Engineering Nagpur Maharashtra India	4	3	4	4		40	30	40	40	150	93.8
7	Gopal Narayan Warutkar	Anand Niketan College, Warora	3	4	3	4		30	40	24	40	134	83.8
8	Sahil Premprakash Wankhede	University of Massachusetts	4	4	4	4		40	40	40	40	160	100.0
9	Dr. Vinayak Deochand Vaidya	K. D. K. College of engineering, nagpur	3	3	3	3		30	30	24	30	114	71.3
10	VALSSON VARGHESE	YES	4	4	3	4		40	40	24	40	144	90.0
11	Bharti Dnyaneshwar Tatte	KDKCE Nagpur	4	4	4	3		40	40	40	30	150	93.8
12	Dr. DIPALI JASUDKAR	KDKCE, NAGPUR	4	4	4	4		40	40	40	40	160	100.0
13	Poonam Hurkat	K.D.K. college of engineering	4	4	4	4		40	40	40	40	160	100.0
14	Jagdeep Kaur	RIMT University Mandi	3	4	3	4		30	40	24	40	134	83.8

		Gobind Garh fatehgarh											
15	Priyal Prayashc hit Deshmuk h	KDK College of engineering Nagpur	4	4	4	3		40	40	40	30	150	93.8
16	Venus Bower	KDK college of engineering	4	4	4	4		40	40	40	40	160	100.0
17	Nidhi Paroha	Rani Durgawati University Jabalpur	4	3	3	4		40	30	24	40	134	83.8
18	Dr. Prerna Ramnath Modak	Rashtrapita Mahatma Gandhi Art, Commerce and Science College Saoli	4	4	4	3		40	40	40	30	150	93.8
19	Dr. Anoop Fartode	K. D. K. College of Engineering, Nagpur	4	4	4	2		40	40	40	20	140	87.5
20	Mahelaqu a Haque	Department of Physics, RTM Nagpur University, Nagpur	4	3	4	4		40	30	40	40	150	93.8
21	Chandni Singh	Guru Ghasidas Central University Bilaspur Chhattisgarh	4	4	3	3		40	40	24	30	134	83.8

22	Pratik Talmale	Raisoni College of engineering	3	4	4	4		30	40	40	40	150	93.8
23	Dr. Anuj Sharma	RCOEM NAGPUR	4	3	3	4		40	30	24	40	134	83.8
24	Pragati Mishra	Siddharth University (MLK PG college), Kapilvastu, Siddharth Nagar, Uttar pradesh	4	4	4	4		40	40	40	40	160	100.0
25	Dr MILIND RAJESH BELKHED KAR	Shri Shivaji College of Arts Commerce and Science Akola	3	4	4	4		30	40	40	40	150	93.8
26	Dr. Karan Singh Vinayak	D.A.V.College , Sector 10, Chandigarh - 160010	4	3	3	4		40	30	24	40	134	83.8
27	Dr. Sunanda Khandait	K.D.K.College of Engineering, Nagpur	4	4	4	4		40	40	40	40	160	100.0
28	Supriya M.Kshetr apal	S.F.S college, sadar , Nagpur	4	4	4	4		40	40	40	40	160	100.0
29	Dr BalbirSing h Ruprai	KDKCE Nagpur	4	3	4	4		40	30	40	40	150	93.8
30	Dr.G.D.Ta mbatkar	Shri.D.M.Bur ungale science and	4	2	3	4		40	20	24	40	124	77.5

		Arts College Shegaon Dist- Buldana											
31	Bharti Purushott am Bawantha de	Anand Niketan College, Anandwan Warora	3	4	4	4		30	40	40	40	150	93.8
32	Kamalpre et Kaur	Mata Gujri College, Fatehgarh Sahib	4	3	4	4		40	30	40	40	150	93.8
33	Dr Aparna Rangari	Kzs science college bramhni kameshwar	4	2	4	4		40	20	40	40	140	87.5
34	kishori salotkar	P.G.T.D. of Physics RTMNU	3	4	4	4		30	40	40	40	150	93.8
35	Ashish S Moon	RKDF University, Bhopal	4	2	4	4		40	20	40	40	140	87.5
36	Dr. Ajay Yoel	Hislop College, Nagpur	4	3	4	4		40	30	40	40	150	93.8
37	Rohinee Manish Barai	Poornima University, Jaipur	4	4	4	4		40	40	40	40	160	100.0
38	Dr. Tushar Ramdasji Shelke	K. D. K. College of Engineering Nagpur	4	2	3	4		40	20	24	40	124	77.5
39	Mugdha Dambhar e	G H Raison College of Engineering	3	3	4	4		30	30	40	40	140	87.5

40	Ms. Kanchan S. Deshmukh	Bapurao Deshmukh college of Engg. Sewagram, Wardha	4	2	3	4		40	20	24	40	124	77.5
41	Dr.Prabha kar D. Khandait	K.D.K. College of Engineering Nagpur	3	3	4	4		30	30	40	40	140	87.5
42	Dr.Mrs. S.P.Wank hede	K.D.K. College of Engineering Nagpur	4	4	3	4		40	40	24	40	144	90.0
								510	530	480	510	2030	90.51
		weightage Value											
	4	10											
	3	8											
	2	6											
	1	4											
	IMPACT ANALYSIS , Conference ICMBAT- 2022												
	Post Conference Feedback Analysis												
		Que	1	2	3	4		1	2	3	4		
Sr. No.	Name of Participant	Name of Institution	Registration proc	Relevance of Conference	Invited Talks	Overall satisfaction		Weightage Value					Weightage %

			ess	ce cont ent		with this Conf eren ce							
1	Mahelaqua a Haque	Department of Physics, RTM Nagpur University, Nagpur	4	4	4	4		40	40	40	40	160	100.0
2	Nayan Sarkar	VNIT nagpur	4	4	4	4		40	40	40	40	160	100.0
3	Mr. Arvind Dhurve	Dept. of Physics, APS University Rewa (MP)	3	4	3	4		24	40	30	40	134	83.8
4	Dr. Karan Singh Vinayak	D. A. V. College, Sector 10, Chandigarh - 160010	3	4	4	4		24	40	40	40	144	90.0
5	Gopal Warutkar	Anand Niketan College Warora	4	4	4	4		40	40	40	40	160	100.0
6	Shalini Patil	Government Autonomous P.G.College Chhindwara M.P	4	4	4	4		40	40	40	40	160	100.0
7	Dr. Suwarna M. Sawde	Priyadarshini College of Engineering, Hingna, Nagpur.	4	4	4	4		40	40	40	40	160	100.0
8	Rajendra	K. D. K. College of	4	4	4	4		40	40	40	40	160	100.0

	B. Khule	Engineering,N agpur											
9	Arti Wadheka r	Deogiri Institute of Engineering and Management Studies, Aurangabad	4	4	4	4		40	40	40	40	160	100.0
10	Dr. Dipali P. Jasudkar	KDKCE, Nagpur	4	4	4	4		40	40	40	40	160	100.0
11	Dr. Alfred Yusuf Shaikh	Indira Gandhi Kala Mahavidyalay a, Ralegaon	4	4	4	4		40	40	40	40	160	100.0
12	VALSSON VARGHES E	KDK COLLEGE OF ENGINEERING	4	3	3	4		40	24	30	40	134	83.8
13	Dr. Sangeeta Itankar	Suryodaya college of Engg. &Technology	4	3	4	3		40	24	40	30	134	83.8
14	Dr. Prerna Ramnath Modak	Rashtrapita Mahatma Gandhi art commerce and Science College Saoli Chandrapur	4	4	4	4		40	40	40	40	160	100.0
15	Amandee p Kaur	Chitkara University Punjab	4	4	4	4		40	40	40	40	160	100.0
16	Dr Atul C Waghmar	KDK College of Engineering	4	4	4	4		40	40	40	40	160	100.0

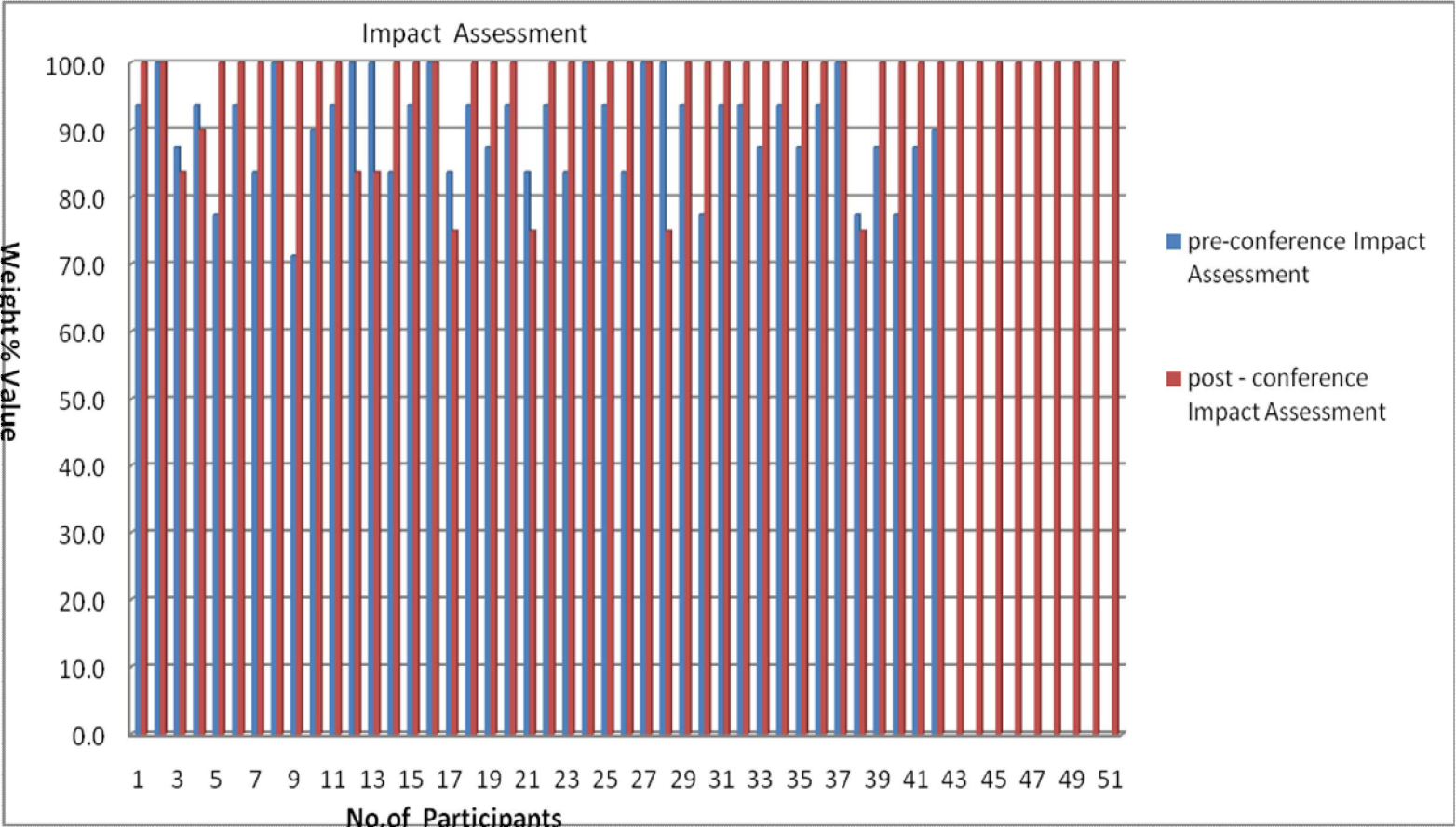
	e	Nagpur											
17	Dr.Ganes h D Tambatka r	Shri.D.M.Buru ngale science and Arts College Shegaon Dist- Buldana	3	3	3	3		30	30	30	30	120	75.0
18	Ashay Devidas Shende	Lovely Professional University,Pun jab	4	4	4	4		40	40	40	40	160	100.0
19	Dr. M.R. Belkhedk ar	Shri Shivaji College of Arts Commerce and Science Akola	4	4	4	4		40	40	40	40	160	100.0
20	Pragati Mishra	Department of physics, (MLK PG college Balrampur), Siddharth University Kapilvastu, Siddharth Nagar, Uttar Pradesh, India	4	4	4	4		40	40	40	40	160	100.0
21	Monika shah	Bhupal Nobles' University, udaipur rajasthan	3	3	3	3		30	30	30	30	120	75.0
22	Vijaya Shri Mall	D. D. U. Gorakhpur University Gorakhpur	4	4	4	4		40	40	40	40	160	100.0
23	Dr. Anoop	K. D. K. College of	4	4	4	4		40	40	40	40	160	100.0

	Fartode	Engineering, Nagpur											
24	Priyal Prayashc hit Deshmuk h	KDKCE	4	4	4	4		40	40	40	40	160	100.0
25	Dr Vivek Korde	Swaminarayan Siddhanta Institute of Technology	4	4	4	4		40	40	40	40	160	100.0
26	Chandni Singh	Guru Ghasidas Central University	4	4	4	4		40	40	40	40	160	100.0
27	Mahendr a Umare	KDK College of Engineering, Nagpur	4	4	4	4		40	40	40	40	160	100.0
28	Nidhi Paroha	Rani Durgawati vishwavidhaya	3	3	3	3		30	30	30	30	120	75.0
29	Venus Bower	KDK	4	4	4	4		40	40	40	40	160	100.0
30	Jagdeep Kaur	RIMT University Mandi Gobind Garh fatehgarh Sahib	4	4	4	4		40	40	40	40	160	100.0
31	Dr Ishu	Amity University Dubai	4	4	4	4		40	40	40	40	160	100.0
32	Dr Vaishali D Maske	Vidya vikas college samudrapur Dist wardha	4	4	4	4		40	40	40	40	160	100.0

33	Poonam Hurkat	K.D.K. College of engineering, Nagpur	4	4	4	4		40	40	40	40	160	100.0
34	Rohini Madhukar Masal	Shri.D.M.burungale college of arts and science, Shegaon	4	4	4	4		40	40	40	40	160	100.0
35	SMITA CHANDAR TOLANI	ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING AND TECHNOLOGY	4	4	4	4		40	40	40	40	160	100.0
36	Vrushabh Namdeo Tale	KDKCE	4	4	4	4		40	40	40	40	160	100.0
37	Yogita Mahant	Nabira college katol	4	4	4	4		40	40	40	40	160	100.0
38	Nilesh Sureshrao Ugemuge	Anand Niketan College Anandwan Warora	3	3	3	3		30	30	30	30	120	75.0
39	Dr. Tushar Ramdasji Shelke	K. D. K. College of Engineering Nagpur	4	4	4	4		40	40	40	40	160	100.0
40	Dr.Mrs. Sangita P.Wankhede	K.D.K.College of Engineering, Nagpur	4	4	4	4		40	40	40	40	160	100.0
41	Dr.Prabha kar D. Khandait	K.D.K.College of Engineering,	4	4	4	4		40	40	40	40	160	100.0

		Nagpur											
42	Dr Swapneel R Satone	KDKCE	4	4	4	4		40	40	40	40	160	100.0
43	Dr. Sunanda P. Khandait	KDK College of Engineering, Nagpur	4	4	4	4		40	40	40	40	160	100.0
44	Dr. Vinayak D. Vaidya	K. D. K. College of Engineering	4	4	4	4		40	40	40	40	160	100.0
45	Sahil Premprak ash Wankhed e	University of Massachusetts	4	4	4	4		40	40	40	40	160	100.0
46	Dr Aparna Rangari	Kzs science college bramhni kameshwar	4	4	4	4		40	40	40	40	160	100.0
47	Ashish S Moon	RKDF University, Bhopal	4	4	4	4		40	40	40	40	160	100.0
48	Dr. Ajay Yoel	Hislop College , Nagpur	4	4	4	4		40	40	40	40	160	100.0
49	Rohinee Manish Barai	Poornima University, Jaipur	4	4	4	4		40	40	40	40	160	100.0
50	Mugdha Dambhar e	G H Raison College of Engineering	4	4	4	4		40	40	40	40	160	100.0
51	Dr.Prabha kar D.Khanda	K.D.K. College of Engineering,	4	4	4	4		40	40	40	40	160	100.0

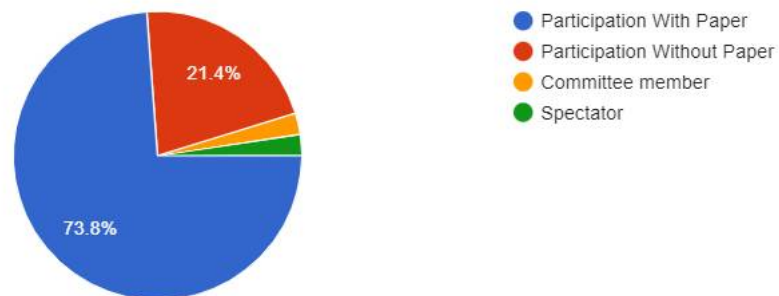
	it	Nagpur											
								71 8	71 8	730	74 0	290 6	96.8 9



Pre-conference feedback Response

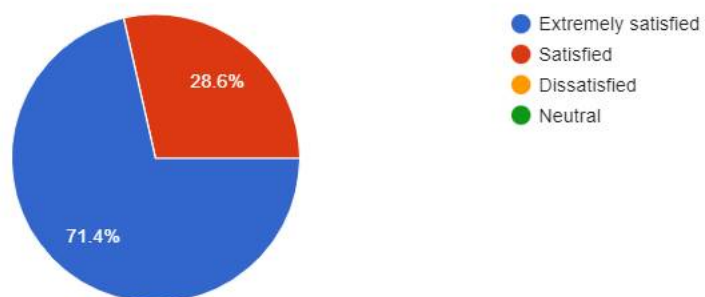
Registration Type

42 responses



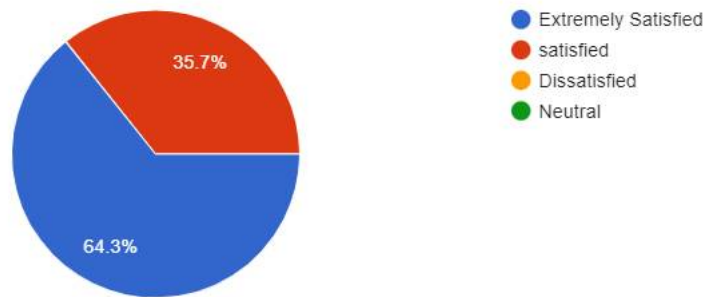
Kindly give your valuable feedback on Registration process

42 responses



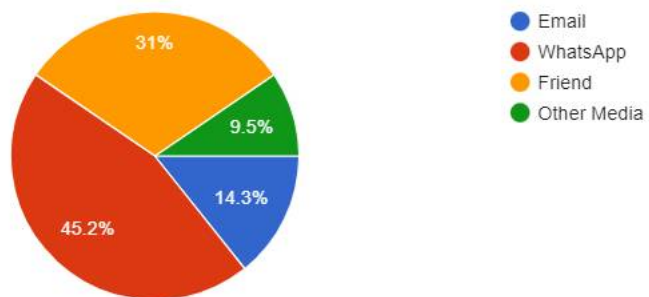
How do you feel about the location of the conference?

42 responses



Where did you hear the conference?

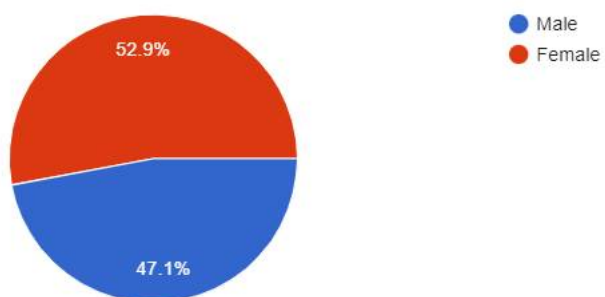
42 responses



Feedback after conference

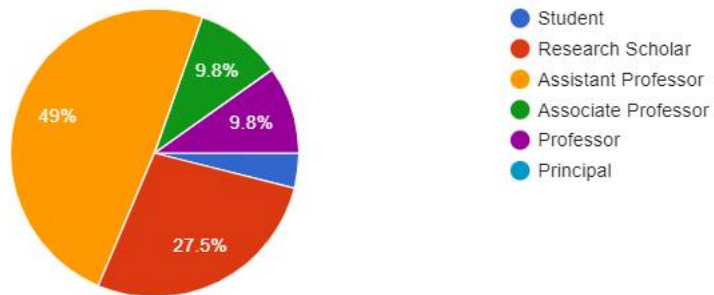
Gender

51 responses



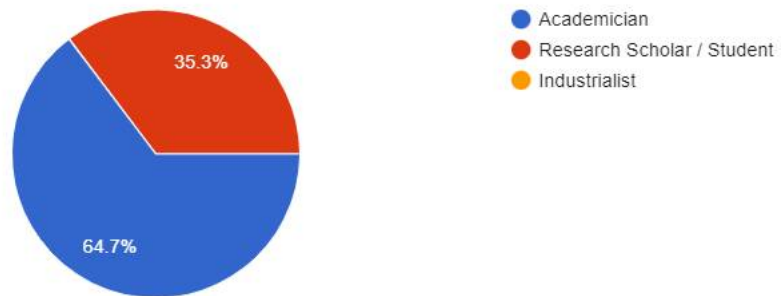
Designation

51 responses



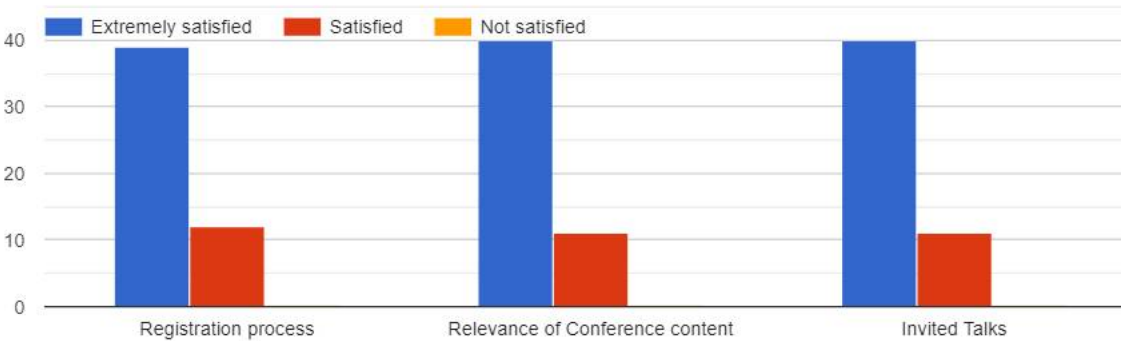
Category of participation

51 responses



Kindly give your valuable feedback on following points

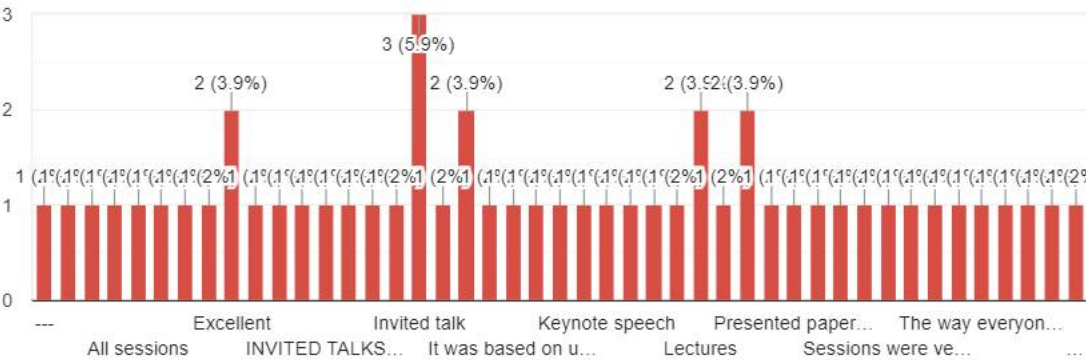
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What was the most valuable about the conference?

 Copy

51 responses



के. डी. के. अभियांत्रिकी महाविद्यालयातर्फे आंतरराष्ट्रीय परिषद

◆ नागपूर, १८ डिसेंबर

मूलभूत विज्ञान विभाग व के. डी. के. अभियांत्रिकी महाविद्यालयातर्फे के. डी. के. कॅम्पस येथे 'मल्टीडायमेंशनल रोल ऑफ बेसिक सायन्स इन ॲडव्हान्स्ड टेक्नॉलॉजी' या विषयावर आंतरराष्ट्रीय परिषदेचे आयोजन करण्यात आले होते.

डॉ. एस. पी. वानखेडे यांनी परिषदेची माहिती दिली. सूत्रसंचालन व्ही. बोवर यांनी केले. डॉ. पी. बी. गौर यांनी आभार मानले. याप्रसंगी उपप्राचार्य डॉ. ए. बदर, बेसिक सायन्सचे विभागप्रमुख डॉ. जी. अग्रवाल, सहसंयोजक डॉ. कविता बाजपेयी, डॉ. के. गेडेकर, जोहान्सबर्ग



परिषदेत प्रमाणपत्र प्रदान करताना मान्यवर

परिषदेचे उद्घाटन आरोग्य सुरक्षा आणि पर्यावरण गट भाभा अणुसंशोधन केंद्र, मुंबईचे संचालक डॉ. डी. के. अस्वाल यांच्या प्रमुख उपस्थितीत झाले. अध्यक्षस्थानी माजी मंत्री राजेंद्र मुळक होते. प्राचार्य डॉ. डी. पी. सिंग, वैद्यकीय भौतिकशास्त्र आणि प्रशिक्षण विभाग, रेडिओलॉजिकल भौतिकशास्त्र आणि सल्लागार विभागाचे माजी प्रमुख डॉ. जी. चौरसिया, नागपूर विद्यापीठ भौतिकशास्त्र विभागाचे माजी प्रमुख डॉ. एस. व्ही. मोहरील हे प्रामुख्याने उपस्थित होते. संमेलनाच्या निमंत्रक

विद्यापीठाचे सहयोगी प्रा. आर. पंत, इन्स्टिट्यूट ऑफ टेक्नॉलॉजी बॉम्बे रसायनशास्त्र विभागाचे प्रा. डॉ. अनिरुध दत्ता, डॉ. शेषाद्री मुस्ली अय्यंगार, डॉ. राजेंद्र पात्रीकर उपस्थित होते. परिषदेत सर्वोत्कृष्ट मौखिक व पोस्टर सादरीकरण पुरस्कारांचे वितरण करण्यात आले. सर्व सहभागींना प्रमाणपत्रे देण्यात आली.

◀(तथा वृत्तसेवा)

PAPER PUBLICATION
P.No. 2019 Dt. 13-06-22
IN THE COURT OF HON'BLE SHRI S. R. BHARAD
CIVIL JUDGE JR. DN. & J.M.F.C. SIONER.







