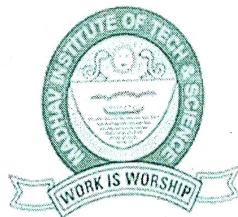


A Report On
AICTE SPONSORED SHORT-TERM COURSE
UNDER
QUALITY IMPROVEMENT PROGRAMME (QIP)



“Environmental Modelling & Practices”
21-26 Dec, 2021

Organized By



Department of Civil Engineering
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous NAAC Accredited Institute Affiliated to RGPV Bhopal)

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A. EXPENDITURE REPORT OF AICTE – QIP Short Term Course

1. Name of Department : Civil Engineering
2. Title of the course : Environmental Modelling & Practices
3. Coordinator(s)
i) Name : Aditya Kumar Agarwal & Prachi Singh
ii) Designation : Assistant Professor
iii) Address : Civil Engg Deptt, MITS Gwalior- 474005 (MP)
iv) Telephone/Fax numbers : 0751-2409351
v) Area of Specialisation : Environmental Engineering
4. Duration and Dates of conduct of the course : One Week (21 – 26 December, 2021)
5. Details of Participants : Local- 16 Outside-29 Total: 45
(Annexure-I: Details of Participants, Attendance, Course End Marks Summary)

6. Details of Experts : Local- 01 Outside- 17 Total: 18
(Annexure-II: Details of all Experts)

7. Details of Expenditure:

S. No.	Item	Amount Allocated	Amount Utilized	Annexure
1	Honorarium to course coordinators	2000/-	2000/-	3
2	Honorarium to experts	78000/-	72000/-	4
3	Payment to lab Attendant engaged during Lab classes	3000/-	Nil	-
4	Miscellaneous Charges	10000/-	7000/-	5
	Total (Rs.)	93000	81000/-	


31/01/2022

Signature of Course Coordinator(s)


31/01/2022

Signature of Head of the Department

HEAD
Civil Engg. Deptt.,
M.I.T.S. Gwalior

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Annexure-3

Expenditure on Honorarium to course coordinators

S. No.	Name of Coordinators	Amount to be Disbursed
1	Aditya Kumar Agarwal	1000/-
2	Prachi Singh	1000/-
	Total (Rs.)	2000/-

Annexure-4

Expenditure on Honorarium to experts

S. No.	Name of Expert	Designation, Affiliation	Topic of Lecture	Date of Lecture	Amount to be Disbursed
1	Prof Mukesh Khare	Emeritus Professor, IIT Delhi	Introduction to modelling and its application in Air Quality Management	21.12.2021	4000/-
2	Dr P K S Dikshit	Professor, IIT BHU	Hydrological & Sediment Yield Modelling and its Impact on climate change	21.12.2021	4000/-
3	Dr Mukesh Sharma	Professor, IIT Kanpur	Air Quality and Apportioning the Sources for Priority Control	21.12.2021	4000/-
4	Dr A K Nema	Professor, IIT Delhi	System Risk Analysis Using Reliability Block Diagram and Fault Tree Analysis	22.12.2021	4000/-
5	Dr K V George	Sr. Principal Scientist, NEERI Nagpur	Emission Inventory preparation for Air Quality Modelling.	22.12.2021	4000/-
6	Dr Sameer Bajpai	Professor, NIT Raipur	Engineering the Solid Waste: Challenges & Opportunities	22.12.2021	4000/-
7	Dr S M Narulkar	Professor, SGSITS Indore	Environmental Modelling	22.12.2021	4000/-
8	Dr K S Hari Prasad	Professor, IIT Roorkee	Analysis of Virus Transport in Ground Water and identification of Transport Parameters	23.12.2021	4000/-
9	Dr Y P Mathur	Professor, MNIT Jaipur	Modelling of Water Distribution System and Optimal Design Using PSO	23.12.2021	4000/-
10	Dr Nek Ram Rawal	Associate Professor, MNNIT Allahabad	Optimization in Solid Waste Management	23.12.2021	4000/-

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11	Dr C S P Ojha	Professor, IIT Roorkee	Soil Aquifer Treatment	24.12.2021	4000/-
12	Dr Asha Lalwani	Sr. Scientist, NEERI Nagpur	Receptor modelling: Understanding its utility in air quality management through a case study	24.12.2021	4000/-
13	Dr R C Vaishya	Professor, MNNIT Allahabad	Air Pollutant Concentration Models	24.12.2021	4000/-
14	Dr Manjaree Pandit	Professor, MITS Gwalior	NEP 2020: An MITS Case Study	25.12.2021	4000/-
15	Dr Anil Sharma	Professor, MANIT Bhopal	Air Quality Modelling	25.12.2021	4000/-
16	Dr Sudhir Kumar	Professor, MNIT Jaipur	Management in Urban Water Sector	25.12.2021	4000/-
17	Dr B R Natrajan	Professor, Banasthali Vidyapith	Case Study of Single Use Plastics	26.12.2021	4000/-
18	Dr Varun Singh	Associate Professor, MNNIT Allahabad	Applications of GIS with Environmental Prospective	26.12.2021	4000/-
Total (Rs.)					72000/-

Annexure-5

Miscellaneous Expenditure

S. No.	Item	Quantity	Amount of Expenditure (Inclusive of Taxes)
1	Seagate Portable External Hard Disk 2 TB	01	5100/-
2	A4 Size Paper Packet	03	600/-
3	File Folder	10	200/-
4	Blue Ball Pen	10	100/-
5	Stapler (Big Size) – HP 45	01	250/-
6	Stapler Pin – HP 45 & HP 10	02 each	100/-
7	Punch Machine (Big Size) – DP 600	01	150/-
8	Refilling of Printer Cartridge	02	500/-
Total (Rs.)			7000/-

P.S.
31/01/2022

Signature of Course Coordinator(s)

MK. Mehta
31/01/2022
HEAD
Civil Engg. Deptt.
M.I.T.S. Gwalior

Signature of Head of the Department

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Annexure- 1

List of Participants

S. No.	Local/Outside	Name	Designation	Affiliation/Institute
1	Outside	Harsh Goyal	Assistant Professor	DIT University, Dehradun
2	Outside	Dr Kannan Thakkar	Assistant Professor	DIT University, Dehradun
3	Outside	Dr J Prakash Arul Jose	Professor	Paavai Engg College
4	Outside	Rohit Maurya	Assistant Professor	Hindustan College of Science & Technology, Mathura
5	Outside	Dr N. Pannirselvam	Associate Professor	SRM Institute of Science & Technology
6	Outside	Korapati Manga	Assistant Professor	Nawab Shah Alam College of Engineering & Technology
7	Outside	Abilash S.	Assistant Professor	St. Peter's College of Engineering & Technology
8	Outside	Viswanathan T.	Assistant Professor	Karpagam Academy of Higher Education
9	Outside	Dr Vitthal Vishram Chopade	Professor	Modern College of Pharmacy Nigdi Pune
10	Outside	Dr Rakesh Kumar Pandey	Associate Professor	MATS University, Raipur
11	Outside	Ankit Kumar	Assistant Professor	BIET Lucknow
12	Outside	Dr Anupam Singh	Associate Professor	BIET Lucknow
13	Outside	Dr. Venkatesh Koudagani	Assistant Professor	Vaageswari College of Engineering
14	Outside	Gaddam Rupa	Assistant Professor	Vaageswari College of Engineering
15	Outside	Maheshwaram Sruthi	Assistant Professor	Vaageswari College of Engineering
16	Outside	Patel Pratima Ramanbhai	Professor	Sigma Institute of Engineering
17	Outside	Adil Haji	Assistant Professor	Sigma Institute of Engineering
18	Outside	Damaraju Lakshmi Lavanya	Assistant Professor	Vignana Bharathi Insitute of Technology
19	Outside	Miryala Jayaram	Assistant Professor	Vignan Institute of Technology and Science
20	Outside	Sushma S	Assistant Professor	Vignan Institute of Technology and Science
21	Outside	Kastro Kiran V	Assistant Professor	Vignan Institute of Technology and Science
22	Outside	Dr Narayan Sangam	Associate Professor	Vignan Institute of Technology and Science
23	Outside	Dr. K. Balaji	Assistant Professor	Sree Vidyankethan Institute, Of Management
24	Outside	Santosh Kumar Kharole	Associate Professor	UIT RGPV, Bhopal
25	Outside	Dal Chand Rahi	Assistant Professor	Jabalpur Engg College, Jabalpur
26	Outside	Dr Abdul Saleem Khan	Professor	Ujjain Engg College, Ujjain
27	Outside	Rajendra Kumar Jain	Professor	Gyan Sagar College of Engineering, Sagar
28	Outside	Tanu Chaturvedi	Assistant Professor	SATI Vidisha
29	Outside	Upendra Pathak	Lecturer	Govt Polytechnic College, Nasrullaganj
30	Local	Dr Nidhi Shukla	Assistant Professor	AMITY University, Gwalior

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31	Local	Shashank Gupta	Assistant Professor	ITM University, Gwalior
32	Local	Ravi Pratap Singh Jadon	Assistant Professor	ITM, Gwalior
33	Local	Aditya Sharma	Assistant Professor	ITM University, Gwalior
34	Local	Ar Rajeev Parashar	Assistant Professor	AMITY University, Gwalior
35	Local	Dr Kalpana Agrawal	Lecturer	Govt Women's Polytechnic, Gwalior
36	Local	Dr Rajeev Kansal	Professor	MITS Gwalior
37	Local	Prof. Anil Kumar Saxena	Associate Professor	MITS Gwalior
38	Local	Prof. Ashis Patra	Associate Professor	MITS Gwalior
39	Local	Prof. Anil Kumar Dwivedi	Associate Professor	MITS Gwalior
40	Local	Angad Singh Ojha	Assistant Professor	MITS Gwalior
41	Local	Rajeev Kumar Singh	Assistant Professor	MITS Gwalior
42	Local	Dr Gavendra Norkey	Assistant Professor	MITS Gwalior
43	Local	Dr Trilok Pratap Singh	Assistant Professor	MITS Gwalior
44	Local	Dr Divya Chaturvedi	Assistant Professor	MITS Gwalior
45	Local	Dr Atul Kumar Ray	Assistant Professor	MITS Gwalior

RS/M
31/01/2022

Signature of Course Coordinator(s)

MK medi
31/01/2022

Signature of Head of the Department

HEAD
Civil Engg. Deptt.
M.I.T.S. Gwalior

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Annexure-2

List of Experts

S. No.	Local/Outside	Name	Designation	Affiliation/Institute
1	Outside	Prof Mukesh Khare	Emeritus Professor	IIT Delhi
2	Outside	Dr P K S Dikshit	Professor	IIT BHU
3	Outside	Dr Mukesh Sharma	Professor	IIT Kanpur
4	Outside	Dr A K Nema	Professor	IIT Delhi
5	Outside	Dr K V George	Sr. Principal Scientist	NEERI Nagpur
6	Outside	Dr Sameer Bajpai	Professor	NIT Raipur
7	Outside	Dr S M Narulkar	Professor	SGSITS Indore
8	Outside	Dr K S Hari Prasad	Professor	IIT Roorkee
9	Outside	Dr Y P Mathur	Professor	MNIT Jaipur
10	Outside	Dr Nek Ram Rawal	Associate Professor	MNNIT Allahabad
11	Outside	Dr C S P Ojha	Professor	IIT Roorkee
12	Outside	Dr Asha Lalwani	Sr. Scientist	NEERI Nagpur
13	Outside	Dr R C Vaishya	Professor	MNNIT Allahabad
14	Local	Dr Manjaree Pandit	Professor	MITS Gwalior
15	Outside	Dr Anil Sharma	Professor	MANIT Bhopal
16	Outside	Dr Sudhir Kumar	Professor	MNIT Jaipur
17	Outside	Dr B R Natrajan	Professor	Banasthali Vidyapith
18	Outside	Dr Varun Singh	Associate Professor	MNNIT Allahabad

[Handwritten Signature]
31/01/2022

Signature of Course Coordinator(s)

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31/01/2022

Signature of Head of the Department

HEAD
Civil Engg. Deptt.
M.I.T.S. Gwalior

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B. PROGRAMME REPORT OF AICTE – QIP Short Term Course

1. Objective the Course

- (i) To explain the concepts of Environmental modeling and its wide application in the related domain.
- (ii) To explore the potentiality of various types of mathematical model to simulate the environmental problem.
- (iii) To develop a better understanding regarding best practices adapted for specific environmental problems.

2. Schedule of the Course

 <div style="text-align: center;"> <p>Online Short Term Course On “Environmental Modelling and Practices” (21 -26 Dec’ 2021) Sponsored by: AICTE-QIP, DELHI</p>  </div>			
Program Schedule			
	Time	Event	Resource person
Day – 1 (21 st Dec 2021)	10.00am-10.30am	Inaugural Session Google meet link: https://meet.google.com/mxg-usot-gvy	
	10.30am-10.45am	Tea Break	
	10.45am-12.15pm	Plenary session-I Topic: Air Pollution Modelling Joining Link: https://meet.google.com/qcs-yoinf-qei	Prof. Mukesh Khare Emeritus Professor, Dept. of Civil Engg., IIT Delhi
	12.15pm-1.15pm	Lunch Break	
	1.15pm-2.45pm	Plenary session-II Topic: Hydrogeological modelling Joining Link: https://meet.google.com/wyz-mujy-ybw	Dr. P K S Dikshit Professor, Dept. of Civil Engg., IIT BHU, Varanasi
	2.45pm-3.00pm	Tea Break	
	3.00pm-5.00pm	Plenary session-III Topic: Air Pollution Modelling Joining Link: https://meet.google.com/cgc-kxdn-axw	Dr. Mukesh Sharma Professor, Dept. of Civil Engg., IIT Kanpur
Day-2 (22 nd Dec 2021)	10.00am-11.30am	Plenary session-IV Topic: Simulation and Optimization of Environmental Systems Joining Link: https://meet.google.com/wyu-xtrb-bud	Dr. A K Nema Professor, Dept. of Civil Engg. IIT Delhi
	11.30am-12.00am	Tea Break	
	12.00am-01.30pm	Plenary session-V Topic: Emission Inventory preparation for Air Quality Modeling Joining Link: https://meet.google.com/piu-knbc-ves	Dr. K. V. George Sr. Principal Scientist APC Division, NEERI, Nagpur
	1.30pm-2.30pm	Lunch Break	
	2.30pm-4.00pm	Plenary session-VI Topic: Solid Waste Management Joining Link: https://meet.google.com/kky-dmjq-kfm	Dr. Sanchit Bajpai Professor, Dept. of Civil Engg., NIT Raipur
	4.00pm-4.30pm	Tea Break	
	4.30pm-6.00pm	Plenary session-VII Topic: Hydrological Modelling Joining Link: https://meet.google.com/uga-hgzc-xmh	Dr. S M Narulkar Professor, Dept. of Civil Engg., SGSITS Indore
Day-3 (23 rd Dec 2021)	10.00am-11.30am	Plenary session-VIII Topic: Virus Transport through Groundwater: Analysis and Parameter Estimation Joining Link: https://meet.google.com/yfh-yeip-cxc	Dr. K S Hari Prasad Professor, Dept. of Civil Engg. IIT Roorkee
	11.30am-12.00am	Tea Break	
	12.00am-01.30pm	Plenary session-IX Topic: Modelling of Water Distribution System and Optimal design using PSO Joining Link: https://meet.google.com/mwk-ahpf-afi	Dr. Y P Mathur Professor, Dept. of Civil Engg., MNIT Jaipur
	1.30pm-2.30pm	Lunch Break	
	2.30pm-4.00pm	Plenary session-X Topic: Optimization in solid waste management Joining Link: https://meet.google.com/imf-impb-rmw	Dr. Nektaram Rawal Associate Professor, Dept. of Civil Engg., MNIT Allahabad



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Online Short Term Course

On

“Environmental Modelling and Practices”

(21 -26 Dec' 2021)

Sponsored by:

AICTE-QIP, DELHI



Day-4 (24 th Dec 2021)	10.00am-11.30am	<i>Plenary session-XI</i> <i>Topic: Soil Aquifer Treatment</i> <i>Joining Link: https://meet.google.com/eie-rbxh-ant</i>	Dr. C S P Ojha Professor, Dept. of Civil Engg. IIT Roorkee
	11:30am-2:00 pm	Tea Break	
	2:00pm-3:30pm	<i>Plenary session-XII</i> <i>Topic: Source Apportionment in Air Pollution</i> <i>Joining Link: https://meet.google.com/thb-hraf-ids</i>	Dr. Asha Lalwani Sr. Scientist APC Division, NEERI, Nagpur
	3:30pm-4:00pm	Lunch Break	
Day-5 (25 th Dec 2021)	4:30pm-6:00pm	<i>Plenary session-XIII</i> <i>Topic: Air Pollution Monitoring</i> <i>Joining Link: https://meet.google.com/rod-szrb-hff</i>	Dr. R C Vaishya Professor, Dept of Civil Engg., MNNT Allahabad
	10.00am-11.30am	<i>Plenary session-XIV</i> <i>Topic: New Education Policy</i> <i>Joining Link: https://meet.google.com/dj-abbz-hfv</i>	Dr. Manjaree Pandit Professor, Dept. of Electrical Engg., MITS Gwalior
	11:30 am-12:00 pm	Tea Break	
	12:00am-01.30pm	<i>Plenary session-XV</i> <i>Topic: Air Quality Modelling</i> <i>Joining Link: https://meet.google.com/jiv-vhvz-cfb</i>	Dr. A K Sharma Professor, Dept. of Civil Engg., MANIT, Bhopal
Day-6 (26 th Dec 2021)	1:30pm-2:30pm	Lunch Break	
	2:30pm-4:00pm	<i>Plenary session-XVI</i> <i>Topic: Water Management</i> <i>Joining Link: https://meet.google.com/uxz-idcw-rqf</i>	Dr. Sudheer Kumar Professor, Dept. of Civil Engg., MNIT Jaipur
	11:30am-1:00pm	<i>Plenary session-XVII</i> <i>Topic: Optimization in Environmental Modelling</i> <i>Joining Link: meet.google.com/xib-baiq-few</i>	Dr. B R Natrajan Professor, Department of Chem. Engineering, Banasihali Vidyapith (Rajasthan)
Day-6 (26 th Dec 2021)	1:00 pm- 2:00 pm	Lunch Break	
	2:00pm-03:30pm	<i>Plenary session-XVIII</i> <i>https://meet.google.com/sjz-ecph-uzd</i>	Dr. Varun Singh Associate Professor, Dept of Civil Engg., MNNT Allahabad
	03:45pm-04:15 pm	<i>Vote of Thanks and closing ceremony</i> <i>Joining Link: https://meet.google.com/wkc-nzj-bub</i>	
	4:30pm onwards	Quiz	

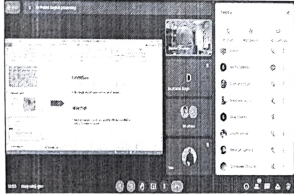
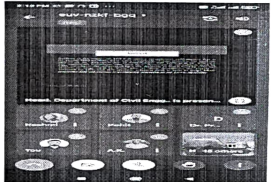
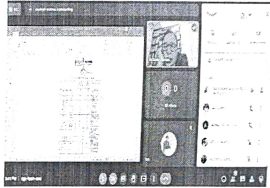

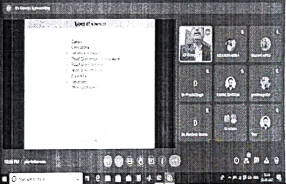
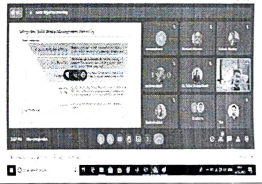
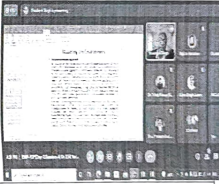
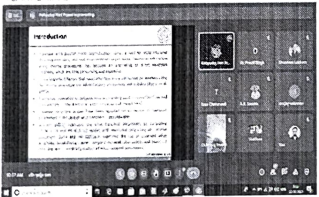
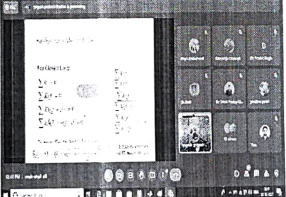
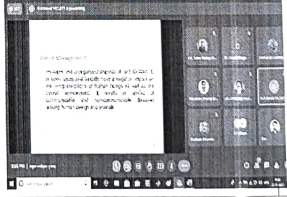
3. Salient points of discussion in the course

S. No.	Name of Expert	Designation, Affiliation	Topic of Lecture	Date of Lecture	Salient Point
1	Prof Mukesh Khare	Emeritus Professor, IIT Delhi	Introduction to modelling and its application in Air Quality Management	21.12.2021	Potentiality of Dispersion modelling for air quality management.
2	Dr P K S Dikshit	Professor, IIT BHU	Hydrological & Sediment Yield Modelling and its Impact on climate change	21.12.2021	Develop a model for Hydrological & Sediment Yield
3	Dr Mukesh Sharma	Professor, IIT Kanpur	Air Quality and Apportioning the Sources for Priority Control	21.12.2021	Briefly explained about various receptor models utilized for source apportionment
4	Dr A K Nema	Professor, IIT Delhi	System Risk Analysis Using Reliability Block Diagram and Fault Tree Analysis	22.12.2021	Assessment of uncertainty of model outputs
5	Dr K V George	Sr. Principal Scientist, NEERI Nagpur	Emission Inventory preparation for Air Quality Modelling.	22.12.2021	Elaborate about the air quality management for a specific city
6	Dr Sameer Bajpai	Professor, NIT Raipur	Engineering the Solid Waste: Challenges & Opportunities	22.12.2021	Engineering practices for effective management of solid waste
7	Dr S M Narulkar	Professor, SGSITS Indore	Environmental Modelling	22.12.2021	Applications and utility of environmental modelling
8	Dr K S Hari Prasad	Professor, IIT Roorkee	Analysis of Virus Transport in Ground Water and identification of Transport Parameters	23.12.2021	Source identification of virus transport in ground water

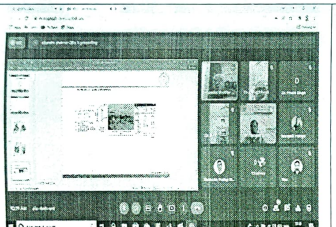
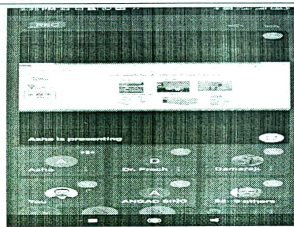
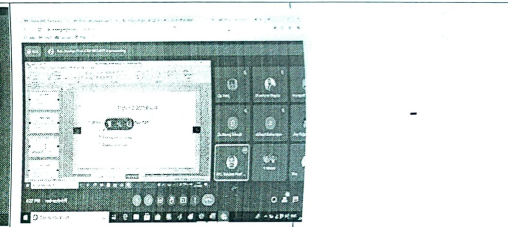
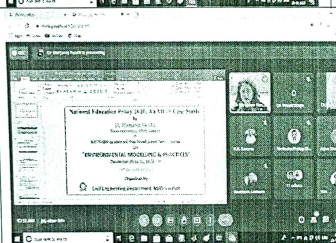
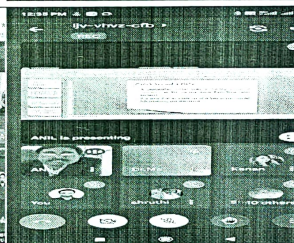
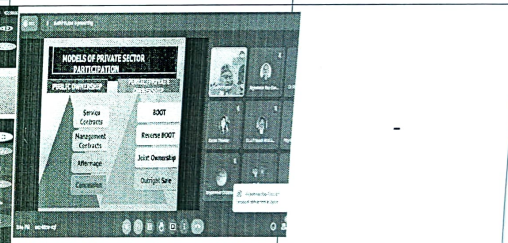
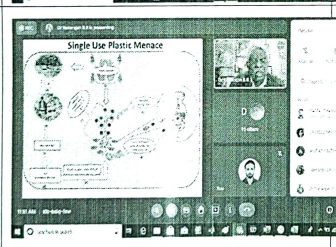
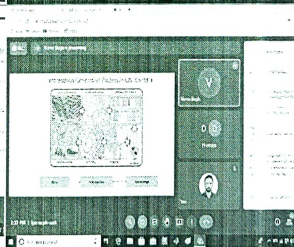
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9	Dr Y P Mathur	Professor, MNIT Jaipur	Modelling of Water Distribution System and Optimal Design Using PSO	23.12.2021	Optimization of various parameters involved in the design of water distribution system
10	Dr Nek Ram Rawal	Associate Professor, MNNIT Allahabad	Optimization in Solid Waste Management	23.12.2021	Route optimization techniques
11	Dr C S P Ojha	Professor, IIT Roorkee	Soil Aquifer Treatment	24.12.2021	Various types of treatment for improving the properties of soil aquifer.=
12	Dr Asha Lalwani	Sr. Scientist, NEERI Nagpur	Receptor modelling: Understanding its utility in air quality management through a case study	24.12.2021	Application of receptor model
13	Dr R C Vaishya	Professor, MNNIT Allahabad	Air Pollutant Concentration Models	24.12.2021	Applicability of air dispersion model under different circumstances
14	Dr Manjaree Pandit	Professor, MITS Gwalior	NEP 2020: An MITS Case Study	25.12.2021	Implementation of NEP 2020
15	Dr Anil Sharma	Professor, MANIT Bhopal	Air Quality Modelling	25.12.2021	Technical aspects of air quality modelling
16	Dr Sudhir Kumar	Professor, MNIT Jaipur	Management in Urban Water Sector	25.12.2021	Developing a management plan for water distribution in urban sector
17	Dr B R Natrajan	Professor, Banasthali Vidyapith	Case Study of Single Use Plastics	26.12.2021	Management plan related to single use plastics
18	Dr Varun Singh	Associate Professor, MNNIT Allahabad	Applications of GIS with Environmental Prospective	26.12.2021	Evaluation of environmental problem with GIS perspective

4. Screenshots of the sessions

Day	Session-wise Screenshots			
	I	II	III	IV
1				-
2				
3				-



4			
5			
6			

Video Recording Link

https://drive.google.com/drive/folders/1Z36eCost2arEQVshksPQvM_TTDXano?usp=sharing



5. List of participants and their attendance record

List of Participants

S. No.	Name	Designation	Affiliation/Institute
1	Harsh Goyal	Assistant Professor	DIT University, Dehradun
2	Dr Kannan Thakkar	Assistant Professor	DIT University, Dehradun
3	Dr J Prakash Arul Jose	Professor	Paavai Engg College
4	Rohit Maurya	Assistant Professor	Hindustan College of Science & Technology, Mathura
5	Dr N. Pannirselvam	Associate Professor	SRM Institute of Science & Technology
6	Korapati Manga	Assistant Professor	Nawab Shah Alam College of Engineering & Technology
7	Abilash S.	Assistant Professor	St. Peter's College of Engineering & Technology
8	Viswanathan T.	Assistant Professor	Karpagam Academy of Higher Education
9	Dr Vitthal Vishram Chopade	Professor	Modern College of Pharmacy Nigdi Pune
10	Dr Rakesh Kumar Pandey	Associate Professor	MATS University, Raipur
11	Ankit Kumar	Assistant Professor	BIET Lucknow
12	Dr Anupam Singh	Associate Professor	BIET Lucknow
13	Dr. Venkatesh Koudagani	Assistant Professor	Vaageswari College of Engineering
14	Gaddam Rupa	Assistant Professor	Vaageswari College of Engineering
15	Maheshwaram Sruthi	Assistant Professor	Vaageswari College of Engineering
16	Patel Pratima Ramanbhai	Professor	Sigma Institute of Engineering
17	Adil Haji	Assistant Professor	Sigma Institute of Engineering
18	Damaraju Lakshmi Lavanya	Assistant Professor	Vignana Bharathi Institute of Technology
19	Miryala Jayaram	Assistant Professor	Vignan Institute of Technology and Science
20	Sushma S	Assistant Professor	Vignan Institute of Technology and Science
21	Kastro Kiran V	Assistant Professor	Vignan Institute of Technology and Science
22	Dr Narayan Sangam	Associate Professor	Vignan Institute of Technology and Science
23	Dr. K. Balaji	Assistant Professor	Sree Vidyanikethan Institute Of Management
24	Santosh Kumar Kharole	Associate Professor	UIT RGPV, Bhopal
25	Dal Chand Rahi	Assistant Professor	Jabalpur Engg College, Jabalpur
26	Dr Abdul Saleem Khan	Professor	Ujjain Engg College, Ujjain
27	Rajendra Kumar Jain	Professor	Gyan Sagar College of Engineering, Sagar
28	Tanu Chaturvedi	Assistant Professor	SATI Vidisha

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29	Upendra Pathak	Lecturer	Govt Polytechnic College, Nasrullaganj
30	Dr Nidhi Shukla	Assistant Professor	AMITY University, Gwalior
31	Shashank Gupta	Assistant Professor	ITM University, Gwalior
32	Ravi Pratap Singh Jadon	Assistant Professor	ITM, Gwalior
33	Aditya Sharma	Assistant Professor	ITM University, Gwalior
34	Ar Rajeev Parashar	Assistant Professor	AMITY University, Gwalior
35	Dr Kalpana Agrawal	Lecturer	Govt Women's Polytechnic, Gwalior
36	Dr Rajeev Kansal	Professor	MITS Gwalior
37	Prof. Anil Kumar Saxena	Associate Professor	MITS Gwalior
38	Prof. Ashis Patra	Associate Professor	MITS Gwalior
39	Prof. Anil Kumar Dwivedi	Associate Professor	MITS Gwalior
40	Angad Singh Ojha	Assistant Professor	MITS Gwalior
41	Rajeev Kumar Singh	Assistant Professor	MITS Gwalior
42	Dr Gavendra Norkey	Assistant Professor	MITS Gwalior
43	Dr Trilok Pratap Singh	Assistant Professor	MITS Gwalior
44	Dr Divya Chaturvedi	Assistant Professor	MITS Gwalior
45	Dr Atul Kumar Ray	Assistant Professor	MITS Gwalior

Participant's Attendance Report

Name	21.12.2021			22.12.2021				23.12.2021			24.12.2021			25.12.2021			26.12.2021		Total Present	Total Absent
	I	II	III	I	II	III	IV	I	II	III	I	II	III	I	II	III	I	II		
Harsh Goyal	P	P	A	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	15	3
Dr Kannan Thakkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Dr J Prakash Arul Jose	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Rohit Maurya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Dr N. Pannirselvam	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	16	2
Korapati Manga	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Abilash S.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Viswanathan T.	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	16	2
Dr Vitthal Vishram Chopade	P	P	P	P	P	P	P	A	A	P	P	P	P	A	P	P	P	P	15	3
Dr Rakesh Kumar Pandey	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	17	1
Ankit Kumar	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	16	2
Dr Anupam Singh	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	16	2
Dr. Venkatesh Koudagani	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Gaddam Rupa	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Maheshwaram Sruthi	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	16	2
Patel Pratima Ramanbhai	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	3
Adil Haji	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Damaraju Lakshmi Lavanya	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	17	1
Miryala Jayaram	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	17	1
Sushma S	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	A	P	P	15	3
Kastro Kiran V	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	16	2
Dr Narayan Sangam	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0



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Dr. K. Balaji	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	17	1
Santosh Kumar Kharole	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	16	2
Dal Chand Rahi	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	16	2
Dr Abdul Saleem Khan	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	17	1
Rajendra Kumar Jain	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	17	1
Tanu Chaturvedi	P	P	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	15	3
Upendra Pathak	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	16	2
Dr Nidhi Shukla	P	P	P	A	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	15	3
Shashank Gupta	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P	P	P	15	3
Ravi Pratap Singh Jadon	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	16	2
Aditya Sharma	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	15	3
Ar Rajeev Parashar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	17	1
Dr Kalpana Agrawal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Dr Rajeev Kansal	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	16	2
Prof. Anil Kumar Saxena	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	15	3
Prof. Ashis Patra	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	A	P	P	P	15	3
Prof. Anil Kumar Dwivedi	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	15	3
Angad Singh Ojha	A	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	3
Rajeev Kumar Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	17	1
Dr Gavendra Norkey	P	P	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	15	3
Dr Trilok Pratap Singh	P	P	A	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	15	3
Dr Divya Chaturvedi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18	0
Dr Atul Kumar Ray	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	17	1

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6. Marks obtained by the participants in the quiz

Name	Marks Obtained	Total Marks	Percentage
Harsh Goyal	42	50	84
Dr Kannan Thakkar	42	50	84
Dr J Prakash Arul Jose	39	50	78
Rohit Maurya	42	50	84
Dr N. Pannirselvam	39	50	78
Korapati Manga	31	50	62
Abilash S.	35	50	70
Viswanathan T.	22	50	44
Dr Vitthal Vishram Chopade	45	50	90
Dr Rakesh Kumar Pandey	34	50	68
Ankit Kumar	26	50	52
Dr Anupam Singh	38	50	76
Dr. Venkatesh Koudagani	40	50	80
Gaddam Rupa	35	50	70
Maheshwaram Sruthi	40	50	80
Patel Pratima Ramanbhai	46	50	92
Adil Haji	49	50	98
Damaraju Lakshmi Lavanya	32	50	64
Miryala Jayaram	35	50	70
Sushma S	20	50	40
Kastro Kiran V	45	50	90
Dr Narayan Sangam	32	50	64
Dr. K. Balaji	34	50	68
Santosh Kumar Kharole	39	50	78
Dal Chand Rahi	43	50	86
Dr Abdul Saleem Khan	31	50	62
Rajendra Kumar Jain	43	50	86
Tanu Chaturvedi	31	50	62
Upendra Pathak	39	50	78
Dr Nidhi Shukla	36	50	72
Shashank Gupta	42	50	84
Ravi Pratap Singh Jadon	48	50	96
Aditya Sharma	25	50	50
Ar Rajeev Parashar	48	50	96

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Dr Kalpana Agrawal			
Dr Rajeev Kansal	35	50	70
Prof. Anil Kumar Saxena	46	50	92
Prof. Ashis Patra	49	50	98
Prof. Anil Kumar Dwivedi	20	50	40
Angad Singh Ojha	44	50	88
Rajeev Kumar Singh	37	50	74
Dr Gavendra Norkey	21	50	42
Dr Trilok Pratap Singh	36	50	72
Dr Divya Chaturvedi	39	50	78
Dr Atul Kumar Ray	42	50	84
	41	50	82

7. Outcomes of the course

After completion of this course the participant's will be able to:

- (i) Identify the best modeling practices related to each specific environmental issue.
- (ii) Apply various types of model for environmental problem related to air, water, soil and solid waste.
- (iii) Investigate the potentiality of environmental models in providing valid real life results.
- (iv) Formulate solutions for various environmental issues with modeling techniques.
- (v) Validate the simulation results of various environmental models.



8. Feedback of the participants

Name	Course Structure and Organisation	Course contents & selection of topics	Overall quality of lectures	Administration and Logistics during conduction of online program	Have you found the course useful	Will you recommend this course to your colleagues	Shall you be using the knowledge gained during this course in your teaching or for personal professional advancement	Remarks And Suggestions For Improvement
A K Saxena	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Nil
Abutalib Chhipa	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Very knowledgeable etc
Adil Haji	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	No Comments
Aditya sharma	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	No
Amit Gadewal	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Overall session was excellent. keep it up
ANGAD SINGH OJHA	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Excellent Ste . All Session Were Excellent. All Speakers Were Delivered Innovative Ideas And Application Of Mathematical Tools .
Ankit Kumar	Excellent	Balance and	Excellent	Excellent	Yes	Yes,	Useful	Excellent



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		innovative				certainly		
Ar. Rajeev Parashar	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Excellent
Arjun Sharma	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Nice work
Ashis Patra	Very Good	Useful and interesting	Good	Good	Yes	Yes, may be	Useful	ok
Dal Chand Rahi	Very Good	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Should include some practical applications
Damaraju Lakshmi Lavanya	Excellent	Useful and interesting	Very Good	Excellent	Yes	Yes, certainly	Useful	Excellent but scheduled time for some days is more . Upto 5 . Little bit difficult faced .
Dr ABDUL SALEEM KHAN	Excellent	Balance and innovative	Excellent	Very Good	Yes	Yes, certainly	Useful	Beneficial & enhance knowledge
DR GAVENDRA NORKEY	Very Good	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Excellent course.
DR JITENDRA PATIDAR	Very Good	Not useful but interesting	Good	Good	Yes	Yes, certainly	Useful	No
Dr Rakesh Kumar Pandey	Very Good	Balance and innovative	Excellent	Very Good	Yes	Yes, certainly	Useful	Nice.. Helpful for professional development
Dr. Anupam Singh	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	NA
Dr. Kalpana Agrawal	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	No comments
Dr. Venkatesh Koudagani	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	No
Dr. NARAYAN SANGAM	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	Very good initiative to conduct in the



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DR. NIDHI SHUKLA	Very Good	Useful and interesting	Very Good	Excellent	Yes	Yes, certainly	Useful	interest of teaching community
Dr. TRILOK PRATAP SINGH	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Really informative
Dr. Kanan Thakkar	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Great Experience.
Dr.Divya Chaturvedi	Excellent	Useful and interesting	Excellent	Very Good	Yes	Yes, may be	Useful	Overall excellent program. coordinators have managed it well. Experts and session topic selection was made as per the emerging research domains.
Dr.J.Prakash Arul Jose	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	FDP is Very beneficial
Dr.K.BALAJI	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Excellent
Dr.N.Pannirselvam	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Nil
Harsh Goyal	Good	Useful and interesting	Good	Good	Yes	Yes, may be	Useful	Some more elaborative examples can be included
Gaddam Rupa	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, may be	Career compulsion	Nothing
Isha Burman	Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Career compulsion	Nothing.

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JYOTIJATAV	Good	Useful and interesting	Good	Good	Yes	Yes, certainly	Useful	No
Kamal Sharma	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Once more.
Kastro Kiran V	Very Good	Useful and interesting	Good	Good	Yes	Yes, may be	Useful	No remarks
Korapati Manga	Excellent	Useful and interesting	Very Good	Excellent	Yes	Yes, certainly	Useful	Thank you for conducting the fdp..it was very helpful .. hope that you will be arranging many more informative and useful sessions.
MAHESHWARAM SRUTHI	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Require more stp in future
MIRYALA JAYARAM	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	Very informative
Mr. ABILASH S	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	Exemplary
NAMRATA AGRAWAL	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	No suggestion
Patel Pratima Ramanbhai	Excellent	Useful and interesting	Excellent	Excellent	I already knew all this	Yes, certainly	Useful	All where excellent
Prabhakar Shukla	Excellent	Balance and innovative	Very Good	Very Good	Yes	Yes, certainly	Useful	NA
Rajeev Kumar Singh	Excellent	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	Coordinators did their job honestly.
Rajendra Kumar Jain	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Nice and informative
Rashmi mital	Excellent	Useful and interesting	Excellent	Very Good	Yes	Yes, certainly	No comments	Very informative and

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								interesting course
Ravi Pratap Singh Jadon	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Allow Participants interaction during Lecture
Renuka DARSHYAMKAR	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Good Lecture session
Rohit Maurya	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	It will be very good if, could also see the real time software base Modelling and designing of systems.
Sanjay Kumar Vaishnav	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Excellent
Shashank Gupta	Very Good	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	The sessions were very informative the speakers were knowledgeable
SHUBHAM CHITRANSH	Good	Balance and innovative	Good	Good	Yes	Yes, certainly	Useful	No
SHYAMVEER SINGH CHAUHAN	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Very useful and informative STC
Tanu Chaturvedi	Good	Useful and interesting	Good	Good	Yes	Yes, certainly	Career compulsion	Good
Upendra pathak	Excellent	Useful and interesting	Very Good	Excellent	Yes	Yes, certainly	Useful	Very nice and useful
Viswanathan T	Good	Useful and interesting	Good	Good	Yes	Yes, certainly	Useful	Nil
Rajshree sahu	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	No
VISWANATHAN	Good	Useful and	Good	Good	Yes	Yes,	Useful	nil

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T		interesting				certainly		
Bhagwan singh Baghel	Excellent	Useful and interesting	Excellent	Very Good	Yes	Can't	Useful	No comments
Dr ABDUL SALEEM KHAN	Excellent	Useful and interesting	Very Good	Excellent	Yes	Yes, certainly	Useful	Useful & informative
prof. ushma gwale	Very Good	Useful and interesting	Very Good	Excellent	Yes	Yes, may be	Useful	very innovative
Patel Pratima Ramanbhai	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Great learning
DR VITTHAL CHOPADE	Excellent	Useful and interesting	Excellent	Excellent	Yes	Yes, certainly	Useful	Excellent Programme is organised and efforts taken by coordinator Prachi sing and Mr Agrwal sir, all session was well manage and wonderful speakers was given innovative knowledge.
Santosh Kumar Kharole	Excellent	Balance and innovative	Excellent	Excellent	Yes	Yes, certainly	Useful	Mathematical modeling, Optimization and Simulation for Environmental systems are really a technolocal driven tools and my area of

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Dr. Atul Kumar Ray	Excellent	Useful and interesting	Very Good	Very Good	Yes	Yes, certainly	Useful	interest. Such programs should be frequently organized. Thanks. Each and every lecture was informative.
Shubham Lakhera	Excellent	Balance and innovative	Very Good	Good	Yes	Yes, certainly	Useful	The efforts made by MITS gwalior were remarkable. I am so thankful for MITS administration for arranging such informative course.



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