

Importance of Environmental Engineering and Climate Change

March 12-16, 2021



Organized by

Department of Civil Engineering National Institute of Technology Meghalaya, India Bijni Complex, Laitumkhrah, Shillong, Meghalaya-793003

Coordinator

ALAYA

Dr. Ganesh Chandra Dhal Assistant Professor Department of Civil Engineering NIT Meghalaya

About NIT Meghalaya

The National Institute of Technology (NIT) Meghalaya is one among the thirty NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Human Resource Development, Government of India. The nearest railway station is Guwahati. From the railway station, one can travel by bus or shared taxi to Shillong. It takes about 3 hours to reach Shillong. After reaching Shillong, one can hire local taxi to reach the campus at Bijni Complex, Laitumkhrah.

About The Department

NIT Meghalaya, Department of Civil Engineering began its session from July 2012. The Department offers B.Tech, M.Tech in structural Engineering and PhD programs specializations. with different The well Department is equipped with laboratories; computational facilities with latest numerical modeling software where our students are exposed to recent technologies development. The Department has well experienced and dedicated faculty members spanning all specializations.

Co-Coordinator

Dr. Hriday Mani Kalita Assistant Professor, CE, NIT Meghalaya & Dr. Susmita Sharma Assistant Professor, CE NIT Meghalaya

Broad Scope

The proposed online workshop is aimed at creating an effective forum for exchange of innovative ideas and research works in the areas of Environmental Engineering and climate change. Eminent speakers from Academia and Industry will be delivering lectures on the following thematic areas of the workshop.

Target Audience

The course is suitable for Faculty Members, Research Scholars, Students and Industry Professionals.

Mode

The workshop will be organized through online platform. The joining link will be shared with the participants, well in advance.

Certificate

E-Certificate will be provided to all the participants satisfying the attendance criteria.

How to apply

Click here for registration https://forms.gle/1mZ95RsV1Rjn4yiz6

Join with Google Meet meet.google.com/owj-qeud-dkp

More Info: https://www.nitm.ac.in

Last Date for Registration: 10th March, 2021. Registration will be considered on a First cum First serve basis. There will be no registration fee.

Course Contents

✤ Introduction to Environmental Engineering

- Introduction to climate change
- Current scenario of Environmental Engineering & Climate change
- Environmental Pollution and Management
- ✤ Application of Environmental Engineering
- ✤ Solid Waste Management
- ✤ Waste Water Treatment for Enhanced Sustainability
- ✤ Industrial Waste Treatment
- Biological Waste Treatment
- Air Pollution Control
- Automobile Pollution Control
- Green Energy
- ✤ Waste to Energy
- Environmental Impact Assessment
- Disaster Management

Resource Person

- 1. Talks by eminent academicians from IIT, NIT and other Research Institutes
- 2. Talks by eminent academicians from other TEQIP Institute
- 3. Other reputed Institutes & Industry

Patron

Prof. B. B. Biswal

Director, NIT Meghalaya

Coordinator

Dr. Ganesh Chandra Dhal Assistant Professor Department of Civil Engineering NIT Meghalaya Email: ganeshdhal@nitm.ac.in Mobile: 9438122573 Whatsapp: 7077661114

Annexure-I

Session Plan

Five days online workshop

on

Importance of Environmental Engineering and Climate Change

12th -16th March 2021Organized by:

Department of Civil Engineering

National Institute of Technology Meghalaya

Day 1	12.03.2021 (Friday)
10:30-	Welcome Address by Coordinator
10:40	Dr. G C Dhal, Assistant Professor, CE
10:40-	Address by HOD, Department of Civil Engineering
10:45	Dr. M. Longshithung Patton, HOD (CE)
10:45-	Address by TEQIP coordinator
10:50	Prof. Ayon Bhattacharjee, Professor, Department of Physics
10:50-	Presidential Address by Chief Patron Prof. B. B. Biswal
11:00	Director, NIT Maghalaya
11:00-	Vote of Thanks by
11:05	Dr. Susmita Sharma, Assistant Professor, CE
11:05-	High Tea
12:00	nign Teu
	Lunch Break
	Lecture 1
	"Industrial Wastewater Treatment"
	Dr M CHANDRA SEKHAR
2:30-3:45	Professor - HAG Water & Environment Division
	Water & Environment Division Department of Civil Engineering
	National Institute of Technology
	WARANGAL - 506 004, INDIA

	Lecture 2
	"Environmental Health & Covid-19"
2 15 5 00	Dr. Devendra Mohan
3.45-5.00	Professor, HAG
	Department of Civil Engineering
	Indian Institute of Technology (BHU) Varanasi
	Uttar Pradesh-221005
Day 2	13.03.2021 (Saturday)
	Lecture 3
	"Solid Waste management"
10.15-	Dr M CHANDRA SEKHAR
	Professor - HAG
11.30	Water & Environment Division
	Department of Civil Engineering
	National Institute of Technology
	WARANGAL - 506 004, INDIA
	Lecture 4
	"Biomethanation:
	A sustainable approach towards management of bio-degradable municipal solid
11.20	waste''
11.30- 12.45	Dr. Ajay Kalamdhad, Professor
	Department of Civil Engineering
	Indian Institute of Technology Guwahati
	Guwahati, Assam-781039
	Lunch Break
	Lecture 5
	"Environmental Pollution and Management"
	Dinabandhu Gouda, Additional Director(Scientist E)
2:30-3:45	Divisional Head, IPC-I Division
	Central Pollution Control Board
	(Ministry of Environment, Forests & Climate Change, Govt of India)
	East Arjun Nagar, Delhi-110032
3.45-5.00	Lecture 6
	"NO cost Removal of heavy metal"
	Dr. Upendra Kumar
	MIE, FICER, PhD (IIT Kharagpur)
	Professor & Ex - HoD
	Department of Civil Engineering
	National Institute of Technology Silchar
	NIT Silchar, Assam- 788010 (India)

Day 3	14.03.2021 (Sunday)
	Lecture 7
	"Removal dye by Low cost method"
	Dr. Upendra Kumar
10.15	MIE, FICER, PhD (IIT Kharagpur)
10.15-	Professor & Ex - HoD
11.30	Department of Civil Engineering
	National Institute of Technology Silchar
	NIT Silchar, Assam- 788010, India
	Lecture 8
	"Photocatalytic CO2 conversion into Value added Product"
	Dr. Suverna Trivedi
11.30-	Assistant Professor
12.45	National Institute Technology Rourkela
	Department of Chemical Engineering, National Institute of Technology
	Rourkela, Sundargarh, Odisha, India – 769008
	Lecture 9
	"Modified photo-Fenton process for treatment of textile waste water"
	Dr. PRATEEKSHA MAHAMALLIK
2:30-3:45	Assistant Professor
	National Institute Technology Rourkela
	Department of Civil Engineering, National Institute of Technology Rourkela,
	Sundargarh, Odisha, India – 769008
	Lecture 10
	"Design and development of integrated nano-biomaterials for treatment of
	industrial wastewater''
	Dr. Naresh Kumar Sahoo
3:45-4:45	Associate Professor Department of Chemistry
	Faculty of Engineering and Technology (ITER)
	Siksha 'O' Anusandhan Deemed to be University Bhubaneswar-751030
	Odisha, India

Day 4	15.03.2021 (Monday)
	Lecture 11
	"Decentralized Wastewater Treatment"
	Dr. Rajesh Roshan Dash
11.30-	Associate Professor (Civil Engineering)
12.45	School of Infrastructure
	Indian Institute of Technology Bhubaneswar
	Argul, Jatni -752050, Odisha, India
	Lunch Break
	Lecture 12
	"Appropriate Technologies for removal 0f trace toxins"
	Dr. Devendra Mohan
2:30- 3:45	Professor Department of Civil Engineering, HAG
	Department of Civil Engineering Indian Institute of Technology (BHU) Varanasi Uttar Pradesh-221005
	Lecture 13
	" Electronic waste management in India"
	Dr. Jiwan Singh
3.45-4.45	Assistant Professor,
	Department of Environmental Science, Coordinator-B.Tech. Civil Engineering, Coordinator-B.Tech. Electronics and Communication Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, Uttar Pradesh-226025, India
Day 5	16.03.2021 (Tuesday)
	Lecture 14
10.15- 11.30	"Bank filtration: A sustainable traditional water treatment technology" Dr. Rakesh Roshan Dash (OEC, IIT Delhi, IIT Roorkee) Associate Professor Veer Surendra Sai University of Technology (A Technical University of Government of Odisha) Burla-768018, Dist Sambalpur (Odisha), India
	(Ex-Scientist, Bureau of Indian Standards Ministry of Consumer Affairs, Govt. of India

	Lecture 15
11.30-	"Climate change: a threat to the society"
	Dr. Arun Lal Srivastav
	[M.Sc; UGC-NET; Ph.D. (IIT-BHU, Varanasi); Post Doctorate (Taiwan)
12.45	Assistant Professor
	Department of Applied Sciences,
	Chitkara University, Himachal Pradesh – 174103
	Lunch Break
	Lecture 16
2:30- 3:45	"Application of constructed wetland for the treatment & reuse of Waste water"
	Dr. Umesh Mishra, Professor, Civil Engineering,
	NIT Agartala
	Chairman, Centre for Rural & tribal Development
	Chairman, Industry Institute Interaction Cell
	Chairman , State Level Expert Appraisal Committee Tripura
3.45-4.00	Valedictory Session

Annexure-I I

	Prof. B. B. Biswal
Patron:	Director, NIT Meghalaya
	Director, Will Wieghalaya
Coordinator	Dr. Ganesh Chandra Dhal, Assistant Professor, Department of Civil Engineering
C. C	Dr. Hriday Mani Kalita, Assistant Professor, Department of Civil Engineering
Co- Coordinator	Dr. Susmita Sharma, Assistant Professor, Department of Civil Engineering
Organizing	Dr. M. Longshithung Patton, Assistant Professor & Head, Civil Engineering
Secretary:	
	Dr. Comingstarful Marthong, Associate Professor, Department of Civil Engineering
	Dr. Smrutirekha Sahoo, Assistant Professor, Department of Civil Engineering
	Dr. Dibyendu Adak, Assistant Professor, Department of Civil Engineering
Organizing Committee	Dr. Debabrata Podder, Assistant Professor, Department of Civil Engineering
Committee	Dr. Pradeep Kumar Gautam , Assistant Professor, Department of Civil Engineering
	Dr. Needhi Kotoky, Assistant Professor, Department of Civil Engineering
	All Ph.D Scholars of Department of Civil Engineering
	Prof. Ayon Bhattacharjee, Professor, PH and TEQIP coordinator
	Prof. H.C. Das, Professor, ME and Dean (Faculty Welfare)
Advisory	Prof. G. Panda, Professor, EE and Dean (Academic affairs)
Committee	Dr. G. K. Dutta, Associate Professor, CY and Dean (R&C)
	Dr. C. Marthong, Associate Professor, CE and Dean (P&D)
	Dr. Atanu Banerjee, Associate Professor, EE and Dean (Student Welfare)

Local Organizing Committee

****Join with Google Meet: meet.google.com/owj-qeud-dkp