



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT - 560062

DEPARTMENT OF CIVIL ENGINEERING

CIRCULAR

Date: 11/01/2022

Department of Civil Engineering is conducting a 5 day faculty development program on "Resource recovery and reuse – Waste to wealth" from January 17th to 20th. Willing staff members are requested to register and participate in the workshop.

Coordinators:- Dr Rashmi H R
Mr Prashanth M
Mr Manjunath B

W. Kelle
Head-Department

Sud. N.

U. K.

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K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Approved by AICTE, New Delhi & Affiliated to VTU, Belagavi)

15, Mallasandra, off Kanakapura Road,
Bangalore - 560109
www.kssem.edu.in



FIVE DAY ONLINE FACULTY DEVELOPMENT PROGRAMME

on

RESOURCE RECOVERY AND REUSE “WASTE TO WEALTH”.

January 17th to 21st 2022

Organized by

Department of Civil Engineering

ABOUT THE INSTITUTION

The Kammavari Sangham, established in the year 1952, is a non-profit oriented voluntary service organization. The organization was created with the objective of providing charitable service to the community and society. The Sangham has diversified its activities since its establishment over five decades ago. Now it has expanded its horizons to include community strengthening ventures, providing education, physical and financial support to the society. With a firm belief that quality education only can lay a strong foundation for bringing about economic and social changes to the lives of millions, the Sangham went about establishing educational institutions, starting with K.S Polytechnic in 1992. Enthused with this success of its foray into technical education, the Sangham then started the K.S Institute of Technology (KSIT), its first Engineering College in the year 1999. In the following years both these institutions have carved for themselves an enviable niche through academic excellence achieved in a very short span of time. Following the success of KSIT, the Sangham ventured to start another technical institution, oriented towards advanced studies and research, and thus, the K.S School of Engineering & management was established in 2010. K.S School of Architecture was established in the year 2015.

ABOUT THE DEPARTMENT

The Department of Civil Engineering is committed to excellence and innovation in education and research. The curriculum provides students to explore various areas in the branch of civil engineering. The Department of Civil engineering encourages the students to build a firm foundation through core courses, and then progress towards more specialized topics like Analysis and Design of High Rise Structures including Finite Element Methods, Structural Dynamics, Earthquake Engineering, New Materials like High Performance Concrete and Geo Polymer Concrete besides Sustainability.

OBJECTIVES OF THE FDP

- Pave the way towards a circular economy that encourages reuse and regenerates while minimizing waste to pollution.
- Eliminates the use of exposure to toxic substances.
- Recovery of nutrients from the wastewater and reduce the impact on natural streams, aquatic life and human health.
- Increasing localized access for nutrient recovery, sludge reduction and other environmentally responsible waste management practices.
- Nutrient recovery technologies cover traditional methods to developed technologies for recovery of nutrients.
- Recovery From E-Waste
- Utilization of Affordable aggregates in Concrete

SCHEDULE

SL.No.	DATE	LECTURE
	10:00 am to 12:00 pm	
1	17-01-2022	Dr Rajesh Gopinath
2	18-01-2022	Dr Shrihari S
3	19-01-2022	Dr Vishwanath
4	20-01-2022	Dr C P Devatha
5	21-01-2022	Dr Shankar BS

Last date for registration

12th Jan, 2022

PATRONS

- Sri.R.Rajagopal Naidu, President Kammavari Sangham
- Sri R.Leela Shankar Rao, Secretary Kammavari Sangham
- Sri T.Neerajakshulu Naidu, Treasurer Kammavari Sangham

ADVISORY COMMITTEE

1. Dr. Khincha, Chairman, Academic Advisory Board, KSGI
2. Dr. K V A Balaji, CEO, KSGI
3. Dr. K N Balasubramanya Murthy, Member, KSGI
4. Dr. K Rama Narasimha, Principal, KSSEM
5. Prof. B K Raghu Prasad, Formerly Professor IISC, Bangalore

CONVENOR

Dr. Vijayalakshmi Akella

Professor & Head, Department of Civil Engineering, KSSEM

CO-CONVENOR

Dr. Rashmi H.R

Asst. Professor , Department of Civil Engineering, KSSEM

RESOURCE PERSONS

1. **Dr Shrihari S**, Professor,NITK Surathkal.
2. **Dr C P Devatha**, Associate Professor,NITK Surathkal.
3. **Dr Shankar BS**, Professor & HOD, CIT, Bangalore.
4. **Dr Vishwanath**, Professor & Head DSATM, Bangalore.
5. **Dr Rajesh Gopinath**, Associate Professor,BMSIT.



Session wise time schedule along with the name of the speakers

Date		Time	Speakers	
17-01-2022 Day-I	9.45AM – 10.00AM (Inaugural Ceremony)	10.00AM – 12.00PM	Dr Rajesh Gopinath, Associate Professor, BMSIT	Feedback
18-01-2022 Day -II		10.00AM – 12.00PM	Dr Srihari.S, Professor, NITK Surathkal.	Feedback
19-01-2022 Day -III		10.00AM – 12.00PM	Dr C P Devatha, Associate Professor, NITK Surathkal.	Feedback
20-01-2022 Day -IV		10.00AM – 12.00PM	Dr vishwanath, Professor & HOD DSATM, Bangalore.	Feedback
21-01-2022 Day -V		10.00AM – 12.00PM	Dr Shankar B S, Professor & HOD, Cambridge institute of technology, Bangalore.	12.00PM – 12.30PM (Online Exam, Feedback & Valediction)



rashmi hr <rashmihr@kssem.edu.in>

FDP at KSSEM

4 messages

vijaya akella <vijaya.akella@gmail.com>

Tue, Jan 4, 2022 at 2:21 PM

To: Rajesh Gopinath <rajeshgopinath007@gmail.com>, rashmihr@kssem.edu.in, MANJUNATH B <mjsharu.engineer@gmail.com>, prashanth raj <prashanthraj1506@gmail.com>

Dear Sir,

It gives me a pleasure to invite you as a speaker to address the participants in the faculty development program on "Resource recovery and reuse – Waste to wealth". Your thoughts would enable the participants to gain the knowledge from your expertise and experience.

Your talk is scheduled on 17/1/21 and the session begins at 10AM. The session talk will be for about 1 hr 30 min followed by a question and answer session.

One of our faculty will be in touch with you. They will be sending you the zoom link to join and take care of all the necessary arrangements.

Kindly also share the bank details.

Thank you

Regards

Dr vijayalakshmi Akella

9845399068

rashmi hr <rashmihr@kssem.edu.in>

Tue, Jan 4, 2022 at 2:21 PM

To: vijaya.akella@gmail.com

Rajesh Gopinath <rajeshgopinath007@gmail.com>

Tue, Jan 4, 2022 at 2:27 PM

To: vijaya akella <vijaya.akella@gmail.com>, "Dr. Rajesh Gopinath CIVIL" <dr.rajeshgopinath@bmsit.in>, "Dr. Rajesh Gopinath" <dr.rajeshgopinathnair@gmail.com>

Cc: rashmihr@kssem.edu.in, MANJUNATH B <mjsharu.engineer@gmail.com>, prashanth raj <prashanthraj1506@gmail.com>

Respected Madam

I thank you for your kind opportunity, and confirm in affirmation wrt my participation.

Regards **Rajesh Gopinath***Every Paper reused.....is every tree rescued !*

[Quoted text hidden]

rashmi hr <rashmihr@kssem.edu.in>

Tue, Jan 4, 2022 at 2:27 PM

To: rajeshgopinath007@gmail.com



rashmi hr <rashmihr@kssem.edu.in>

FDP at KSSEM

3 messages

vijaya akella <hod.civil@kssem.edu.in>

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Dr vijayalakshmi Akella
9845399068

rashmi hr <rashmihr@kssem.edu.in>

Tue, Jan 25, 2022 at 11:56 AM

To: devathafce@nitk.edu.in

----- Forwarded message -----

From: **vijaya akella** <hod.civil@kssem.edu.in>

Date: Tue, Jan 4, 2022 at 2:15 PM

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[Quoted text hidden]



rashmi hr <rashmihr@kssem.edu.in>

FDP at KSSEM

3 messages

vijaya akella <hod.civil@kssem.edu.in>

Tue, Jan 4, 2022 at 2:09 PM

To: s.shrihari@gmail.com, rashmi hr <rashmihr@kssem.edu.in>, MANJUNATH B <mjsharu.engineer@gmail.com>, prashanth raj <prashanthraj1506@gmail.com>

Dear Sir,

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9845399068

Surathkal Shrihari <s.shrihari@gmail.com>

Wed, Jan 5, 2022 at 9:15 AM

To: vijaya akella <hod.civil@kssem.edu.in>

Cc: rashmi hr <rashmihr@kssem.edu.in>, MANJUNATH B <mjsharu.engineer@gmail.com>, prashanth raj <prashanthraj1506@gmail.com>

Dear Dr. Vijayalakshmi,

Thank you.

Shrihari

[Quoted text hidden]

--

S.Shrihari

Chartered Engineer

Professor of Civil Engineering

Chairman, Career Development Centre

National Institute of Technology Karnataka, Surathkal

SRINIVASANAGARA - 575 025.

Phone :91-824-2473346.

Former Hon. Chairman, The Institution of Engineers (India) Mangalore Local Centre.

e.mail :shrihari at [nitk.ac.in](mailto:shrihari@nitk.ac.in), s_shrihari at [rediff.com](mailto:s_shrihari@rediff.com), surathkal_shrihari at [yahoo.co.in](mailto:surathkal_shrihari@yahoo.co.in)

Res : "SRIVANA" Shankara Nilaya Compound,

Kulai - 575 019. Mangalore, India.

6-3-78/10, 302, Poojan Enclave, 6 th. Cross, Gandhinagara, Mangalore - 575003, India

Phone :918242456933, 919449087533

rashmi hr <rashmihr@kssem.edu.in>

Wed, Jan 5, 2022 at 9:16 AM

To: s.shrihari@gmail.com



rashmi hr <rashmihr@kssem.edu.in>

FDP at KSSEM

5 messages

vijaya akella <hod.civil@kssem.edu.in>

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Abhilash reddy B.L <abhireddy.bdvt@gmail.com>
To: rashmi hr <rashmihr@kssem.edu.in>

Tue, Jan 25, 2022 at 12:04 PM

Greetings of the day
I have accepted invitation as resource person on said FDP
I'll login on said time and date

Thank you

On Tue, 25 Jan, 2022, 11:58 am rashmi hr, <rashmihr@kssem.edu.in> wrote:

----- Forwarded message -----

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Date: Tue, Jan 4, 2022 at 2:15 PM
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1/25/22, 12:05 PM

K.S. School of Engineering and Management Mail - FDP at KSSEM

answer session.

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[Quoted text hidden]

Report on workshop

Title :- "Resource recovery and reuse – Waste to wealth"

Date :- January 17th to 20th 2022

Preamble: Department of Civil Engineering, KSSEM Bangalore is conducting a 5 day faculty development program on online mode in order to keep the teachers up to date with the new system of the curriculum. This workshop has been sponsored by management of KSSEM, Bangalore.

Participant's Profile: Total of 220 participants were registered out of that 70 participants attended the FDP.

Description about the Program:

17-01-2022: On the inaugural function at 9.45AM, Head of the department Dr Vijayalakshmi akella welcomed the participants and addressed about the college, department and objective of the FDP. And introduced the resource person to the participants. All 5 day sessions started at 10.00AM.

10.00AM: Dr Rajesh Gopinath, Associate Professor, BMSIT spoke on the resource management. Circular economy: paradigm shift in waste management.

18-01-2022: Dr Srihari.S, Professor, NITK Surathkal he emphasized on solid waste management and tasks of solid-waste management present also the complex technical challenges.

19-01-2022: Dr C P Devatha, Associate Professor, NITK Surathkal has spoken on the topic sludge dewatering, phosphorus removal and recovery using enhanced biological phosphorus removal process coupled with crystallization.

20-01-2022: Mr Abhilash B L spoke on the role, reuse and recycling of affordable waste as ingredient in concrete. Creating wealth without using waste.

21-01-2022: Dr Shankar B S, Professor & HOD, Cambridge institute of technology, Bangalore. Delivered lecture on Bioremediation that employs the use of living organisms, like microbes and bacteria, in the removal of contaminants, pollutants, and toxins from soil, water, wastewater and other environments.

12.00PM: A quiz was conducted for 20 marks through Google form link.

At the end of each session feedback was collected. The entire sessions were an interactive session and the speakers answered many queries raised by the participants. The entire programme was coordinated with the support of the Principal, HOD and faculty of the department of civil Engineering, KSSEM, Bangalore.

Feedback: All the participants expressed their gratitude to resource persons and to the coordinator, department of civil Engineering, KSSEM, Bangalore for conducting FDP on resource recovery and reuse: waste to wealth.

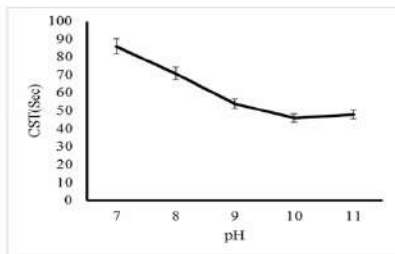
You are viewing C P Devatha's screen View Options Technology Karnataka, Surathkal

Intervening factors for wastewater beneficial use or final disposal

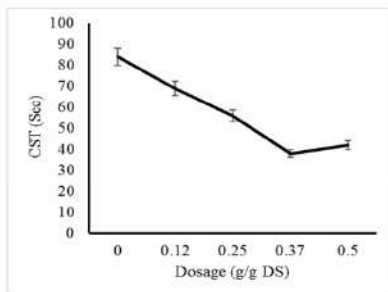
Parameter	Application on the soil	Disposal in landfills	Incineration	Ocean disposal
<i>Sludge treatment</i>				
- Dewatering	+/-	+	+	-
- Stabilisation	+	+/-	-	-
<i>Sludge volume</i>				
	-	-	+	+
<i>Soil requirements</i>				
- Area availability	+	+	-	-
- Hydrogeology	+	+	-	-
<i>Storage</i>				
	+	+/-	+/-	+
<i>Good practices</i>				
	+	+	+	+
<i>Sludge quality</i>				
- Pathogens	+	-	-	-
- Organic pollutants	+	+/-	+/-	+/-
- Metals	+	+/-	+/-	+/-
- Nutrients	+	-	-	-
<i>Public acceptance</i>				
- Odour, aesthetics	+	+	+	+/-
- Traffic	+	+	+/-	-
<i>Transportation</i>				
	+	+	-	+/-
<i>Energy demand</i>				
	-	-	+	-

+: Important +/-: Moderate importance -: Without importance
 Source: Adapted from EPA, cited by Malina (1993)

C P Devatha
 C P Devatha



- For better dewaterability, the CST should be low.
- The maximum dewatering efficiency was confirmed at pH 10.
- When the pH was further increased, the efficiency of dewatering was reduced.



- It was observed that the dose of 0.37 g/g DS of slag was sufficient for obtaining satisfactory dewatering at CST 38 s.

C P Devatha

C P Devatha

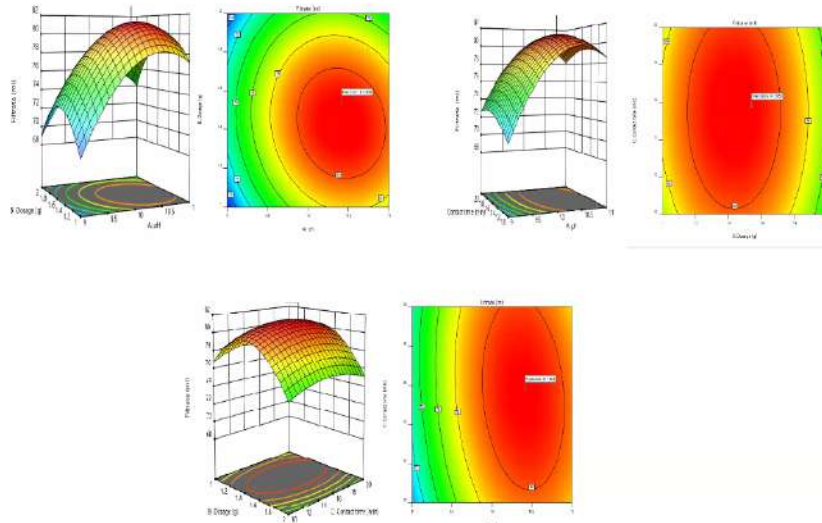
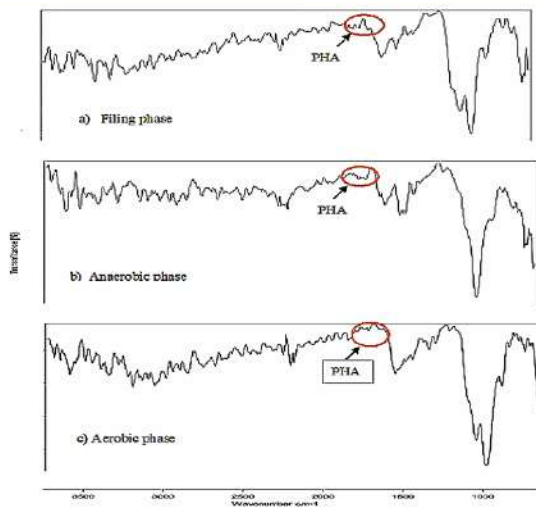


Figure 3D surface graphs and contour plots of liquid separation with two variables



- The peak obtained at 1741cm^{-1} indicates the presence of PHA.
- The PHA presence in the sludge was weak during the start of the reactor. Significant increase in peak of the PHAs was observed during the anaerobic phase of the SBR process. After the anaerobic phase, the aerobic phase was started wherein the PHA presence in the sludge decreased significantly.
- Based on the infrared absorption peak, the decrease and increase in the PHA can be noticed due to the generated PHA in the anaerobic zone and PHA degradation in the aerobic zone.

FTIR spectra of the sludge at – (a) filling, (b) anaerobic, and (c) aerobic phase

C P Devatha

C P Devatha

Full name of Participant	Name of the college and Organization/ Institute	How helpful was the session	How Informative was the session	Overall Rating Of the Session
Kothuri Mahindra	National institute of techno	Extremely Helpful	Extremely Informative	3
BASWAKUMAR	GURU NANAK DEV ENGI	Extremely Helpful	Extremely Informative	3
Vignesh Bharathi S	Sethu Institute of Technolc	Extremely Helpful	Extremely Informative	3
THOTA MURALI KRISHN	Vemu Institute of Technolc	Extremely Helpful	Extremely Informative	3
SHASHI PRASAD N	K S SCHOOL OF ENGINE	Extremely Helpful	Extremely Informative	3
Dr.S.Robert Ravi	ACE Engineering College I	Somewhat Helpful	Somewhat Informative	2
RAJESWARI S	Paavai engineering college	Extremely Helpful	Extremely Informative	3
Savan R G Basavaraj	Bapuji Institute of Enginee	Extremely Helpful	Extremely Informative	3
Akash C Arakere	BAPUJI INSTITUTE OF EI	Extremely Helpful	Extremely Informative	3
NALLASAMY P	Builders Engineering Colle	Extremely Helpful	Extremely Informative	1
Ashwini D G	FET, JU	Extremely Helpful	Extremely Informative	3
Bhavya S	SJCIT	Extremely Helpful	Extremely Informative	3
Gavini Nikhil Reddy	NITK surathkal	Extremely Helpful	Extremely Informative	3
T R Dakshayani	MVJ college of engineering	Extremely Helpful	Extremely Informative	3
Ankush Anand	Shri Mata Vaishno Devi Ur	Somewhat Helpful	Somewhat Informative	2
NANDYALA VARADARED	K L UNIVERSITY	Extremely Helpful	Extremely Informative	3
Rupak kumar	CDSCO, NEW DELHI	Extremely Helpful	Somewhat Informative	3
Er. DEEPAK TIWARI	SSIPMT, RAIPUR	Extremely Helpful	Extremely Informative	3
Dr.Nanjundi Prabhu	ATREE, Bangalore	Extremely Helpful	Extremely Informative	1
Dr.K.Shunmugapriya	Nehru Institute of Technolc	Extremely Helpful	Extremely Informative	3
SUBHADIP SARKAR	ABS ACADEMY OF POLY	Extremely Helpful	Extremely Informative	3
Louella Concepta Goveas	Nmamit	Extremely Helpful	Extremely Informative	3
SHUBHAM CHITRANSH	MADHAV INSTITUTE OF	Somewhat Helpful	Somewhat Informative	2
Er. VAISHALI SAHU	SSIPMT, RAIPUR	Extremely Helpful	Extremely Informative	3
Sneha Nayak	NMAM institute of technolc	Extremely Helpful	Extremely Informative	3
RAJESH V KULKARNI	GOVERNMENT POLYTEC	Extremely Helpful	Extremely Informative	3
Dr S VANITHA	NANDHA ENGINEERING	Extremely Helpful	Extremely Informative	3
Babu Vamsi	NITK	Extremely Helpful	Extremely Informative	3
Kanchan B.G	Nagarjuna College of Engin	Extremely Helpful	Extremely Informative	3
ABHISHEK G B	PES College of Engineerin	Extremely Helpful	Extremely Informative	3
Dr.M.VELUMANI	K.S.RANGASAMY COLLE	Extremely Helpful	Extremely Informative	3
B Ramu	VEMU Institute of Technolc	Extremely Helpful	Extremely Informative	3
Uma S	National Institute of Techn	Extremely Helpful,	Not so Informative	1
Dr S VANITHA	Nandha Engineering Colle	Extremely Helpful	Extremely Informative	3
Tejaswini M	Dayanada sagar college of	Somewhat Helpful	Somewhat Informative	3, 2
P.ESWARAMOORTH	BUILDERS ENGINEERIN	Extremely Helpful	Extremely Informative	3
SUTHAVIJI S	Dr.Mahalingam College of	Extremely Helpful	Extremely Informative	3
Divya P	PESCE, Mandya	Extremely Helpful	Extremely Informative	3
Ahsan Ayaz Aga	Paddar Construction Pvt Li	Extremely Helpful	Extremely Informative	3
C Lathiga	Sri Ranganathar Institute c	Extremely Helpful	Extremely Informative	3
UJWALA SHENOY K	NATIONAL INSTITUTE OI	Extremely Helpful	Extremely Informative	3
Mahesh D	Sapthagiri college of engin	Extremely Helpful	Extremely Informative	3

Sujay Raghavendra Nagar	Siddaganga Institute of Te	Extremely Helpful	Extremely Informative	3
Srikanth M K	TCE Gadag	Extremely Helpful	Extremely Informative	3
Dr. Sanjay Kumar Verma	Takshshila Institute of Eng	Extremely Helpful	Extremely Informative	3
GAYATHRI S	Roever Engineering Collee	Extremely Helpful	Extremely Informative	3
ARUNVARATHARAJ T	Roever Engineering Collee	Extremely Helpful	Extremely Informative	3
PRAVEEN KUMAR G B	BAPUJI INSTITUTE OF EI	Extremely Helpful	Somewhat Informative	3
H.Geetha	ROEVER ENGINEERING	Extremely Helpful	Extremely Informative	3
RANJITH S	ROEVER ENGINEERING	Extremely Helpful	Extremely Informative	3
Dr. Venkata Krishnaiah R	Bharath Institute of Higher	Extremely Helpful	Extremely Informative	3
KANNADASAN B	B S Abdur Rahman Cresce	Extremely Helpful	Extremely Informative	3
Saisushma B A	KSSEM	Extremely Helpful	Extremely Informative	3
Rashmishree K N	Citech	Extremely Helpful	Extremely Informative	3, 2
Jayalatha N A	NITK	Extremely Helpful	Extremely Informative	3
DR SANJAY KUMAR VER	Takshshila Institute of Eng	Extremely Helpful	Extremely Informative	3
SELVAPRIYA R	MUTHAYAMMAL ENGINE	Extremely Helpful	Extremely Informative	3
KANNADASAN B	B S Abdur Rahman Cresce	Extremely Helpful	Extremely Informative	3
Sushma H P	PES college of engineering	Extremely Helpful	Extremely Informative	3
Sushma H P	PES college of engineering	Extremely Helpful	Extremely Informative	3
Roopashree R	School of Sciences	Extremely Helpful	Extremely Informative	3
Dr AREKAL VIJAY	K S School of Engineering	Extremely Helpful	Extremely Informative	3
ASRA FATHIMA	MVJCE	Extremely Helpful	Extremely Informative	3
Srinidhi Shanbog S	CMR Institute of technolog	Extremely Helpful	Extremely Informative	3
Karthiga B	Paavai Engineering Colleg	Extremely Helpful	Extremely Informative	3, 2
Karthiga B	Paavai Engineering Colleg	Extremely Helpful	Extremely Informative	3
PAWAN KUMAR	MNNIT Allahabad Prayagr	Extremely Helpful	Extremely Informative	3
Dr.Suchilipsa Das	Modern Institute of Techno	Extremely Helpful	Somewhat Informative	3
NITESH	A J INSTITUTE OF ENGI	Extremely Helpful	Extremely Informative	3
Shiva Shankar K M	ACS College of Engineerin	Extremely Helpful	Extremely Informative	3
B. Kiruthika	Paavai Engineering Colleg	Extremely Helpful	Extremely Informative	3
Pradeepa.S	Sir mvit	Extremely Helpful	Extremely Informative	3
HARIBABU S	PANIMALAR ENGINEERII	Extremely Helpful	Extremely Informative	3
Gayathri R	The Oxford College of Eng	Extremely Helpful	Extremely Informative	3
Vajreshwari Umachagi	Tontadary college of engin	Extremely Helpful	Extremely Informative	3
Ashwin M Joshi	RASTA- Center for Road T	Somewhat Helpful	Somewhat Informative	2
PARTHIBAN L	Roever engineering colleg	Extremely Helpful	Extremely Informative	3
Divyashree M	PES College of Engineerin	Extremely Helpful	Extremely Informative	3
SATISH KUMAR KOLLUR	Environmental Consultant	Extremely Helpful	Extremely Informative	3
Surya Nair K	NITK	Extremely Helpful	Extremely Informative	3
Shruthi R	BGS Institute of Technolog	Extremely Helpful	Somewhat Informative	3
Nikhil D K	NITK	Extremely Helpful	Extremely Informative	3
Adhirashree Vannarath	National Institute of techno	Extremely Helpful	Extremely Informative	3
A. K. M. THOHIDUL ALAM	Chittagong University of Er	Extremely Helpful	Extremely Informative	3
MAHENDRAN.K	Solamalai college of engin	Extremely Helpful	Extremely Informative	3
Bhavya S	Sir M Visvesvaraya Institut	Extremely Helpful	Extremely Informative	3

Dr. Manu D S	MVJ College of Engineerin	Extremely Helpful	Extremely Informative	3
Er.B.Jeyaprakash	JP Associates Sivakasi	Extremely Helpful	Extremely Informative	3
A. K. M. THOHIDUL ALAM	Chittagong University of Er	Extremely Helpful	Extremely Informative	3
VATHSALA MN	SJCIT	Extremely Helpful	Extremely Informative	3
Sudarsan J S	NICMAR	Extremely Helpful	Extremely Informative	2
SHARATHRAJ R M	Bapuji institute of engineer	Extremely Helpful	Extremely Informative	3
Thanusha	Nagarjuna group of institut	Somewhat Helpful	Somewhat Informative	2
Deekshitha k	NMAM Institute of Technol	Extremely Helpful	Extremely Informative	3
Premlatha K Naidu	MVJ COLLEGE OF ENGIN	Extremely Helpful	Extremely Informative	3
Er. Kaneez Fatima	Deccan College of Engineer	Extremely Helpful	Extremely Informative	3
Naveena MP	K.S.School of Engineering	Extremely Helpful	Extremely Informative	3
DHANASEKAR.K	ADI SHANKARA INSTITU	Extremely Helpful	Extremely Informative	3
A. K. M. THOHIDUL ALAM	Chittagong University of Er	Extremely Helpful	Extremely Informative	3
Anupama C	NITK	Extremely Helpful	Extremely Informative	3
Shambhavi S	PES College of Engineerin	Extremely Helpful	Extremely Informative	3
Rakhesh J Ghante	BIET	Extremely Helpful	Extremely Informative	3
RAJESH V KULKARNI	GOVERNMENT POLYTEC	Extremely Helpful	Extremely Informative	3
Bernard Oruabena	Federal Polytechnic Ekow	Extremely Helpful	Extremely Informative	3
A. K. M. THOHIDUL ALAM	Chittagong University of Er	Extremely Helpful	Extremely Informative	3
Priyanka Pradhan	Veer Surendra Sai Univers	Extremely Helpful	Extremely Informative	3
SUMANA Y B	BIET	Extremely Helpful	Extremely Informative	3
Sujata Suresh Badagi	Tontadarya College of Eng	Extremely Helpful	Extremely Informative	3
Mukaila Yinka Sanni	Ahmadu Bello University, z	Extremely Helpful	Extremely Informative	3
Anish C	Bharath Institute of Higher	Extremely Helpful	Extremely Informative	3
Hemavathi S	Mohamed Sathak A.J Coll	Extremely Helpful	Extremely Informative	3
Rajesh	Bharath institutions of high	Extremely Helpful	Extremely Informative	3
Dr. S. Shantkriti	Kalasalngam Academy of	Extremely Helpful	Extremely Informative	3
Biraj kumar kalita	Student	Extremely Helpful	Extremely Informative	3
I.T.D. SATYENDRA PRAS	National Institute of Electr	Extremely Helpful	Extremely Informative	3
Prasanna Nadagouda	Tontadarya College of Eng	Extremely Helpful	Extremely Informative	3
KIRTI SUNIL PADMAWAF	Ballarpur Institute of Techr	Extremely Helpful	Extremely Informative	3
Prashant bhagawati	Adcet, ashta	Extremely Helpful	Somewhat Informative	3
Annappa A R	UBDTCE	Extremely Helpful	Somewhat Informative	3
SHWETHA K	NMIT	Extremely Helpful	Extremely Informative	3
Puneeth kumar	GURU NANAK DEV ENGI	Extremely Helpful	Somewhat Informative	3
Arun kumar H R	East West Institute of Tect	Extremely Helpful	Extremely Informative	3
Shilpa B S	East West Institute of Tect	Extremely Helpful	Extremely Informative	3
Jayatheertha H S	DSATM	Extremely Helpful	Extremely Informative	3
Dr.M.VELUMANI	K.S.RANGASAMY COLLE	Extremely Helpful	Extremely Informative	3
Amrutha Dhiraj	KS School of Engineering ;	Extremely Helpful	Extremely Informative	3
Mrs.Shobha R	BMS INSTITUTE OF TECI	Extremely Helpful	Extremely Informative	3
Dr.S.Robert Ravi	ACE Engineering College I	Somewhat Helpful	Somewhat Informative	2
Er. Nilakantha Panda	Paradip Port Trust	Extremely Helpful	Extremely Informative	3
Vikram	Shaheed Bhagat Singh Ev	Extremely Helpful	Somewhat Informative	3

SNEHA.T	GOVERNMENT COLLEGE	Extremely Helpful	Extremely Informative	3
Saravanan N	Roever Engineering College	Extremely Helpful	Extremely Informative	3
Naveen R	Civil Construction	Extremely Helpful	Extremely Informative	3
Raju C	Civil Construction	Extremely Helpful	Extremely Informative	3
Sasi Kumar V	Builders Engineering College	Extremely Helpful	Extremely Informative	3
V GOWRISHANKAR	Builders Engineering College	Extremely Helpful	Extremely Informative	3
Sharmila S	Dr. Mahalingam College of	Extremely Helpful	Extremely Informative	3
I.T.D. SATYENDRA PRASAD	National Institute of Electrical	Extremely Helpful	Extremely Informative	3
Er. Kaneez Fatima	Deccan College of Engineering	Extremely Helpful	Extremely Informative	3

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Department of Civil Engineering

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. Kiran Kumar H S

from GMIT, Davanagere

has attended the Faculty Development Programme
on

“Resource recovery and reuse : waste to wealth”
from 17th -21st January of the year 2022.

Head of the Department

Principal