

Progress Report of the department During July-September, 2020

A. Education and Training Programmes

I. Long Term Courses

Type of Programmes	Delivery Method	Faculty
Online Classes of ME CTM (Regular) 2019 batch (July-September, 2020)	Classes have been taken through Google Meet, Google Classroom	Dr. Sanjay Kr. Sharma Dr. Hemant Sood Er. Ajay K Duggal Dr. Amit Goyal
Online Classes of ME CTM (Modular) 2018 and 2019 batch (July-September, 2020)	Classes have been taken through Google Meet, Google Classroom	Dr. Sanjay Kr. Sharma Dr. Hemant Sood Er. Ajay K Duggal Dr. Amit Goyal
Thesis Guidance Both Regular and Modular Students	Online through Google Meet	Dr. Sanjay Kr. Sharma Dr. Hemant Sood Er. Ajay K Duggal Er. Vinod Kumar Sonthwal Er. Himmi Gupta

Academic Proposals submitted:

a. 2 Proposals of PG Diploma programmes submitted to UGC

1. Cyber Security
2. Digital Marketing

b. On line courses for PU

Diploma / Degree	Eligibility for Admission	Passing Criterion
-	-	-
-	-	-

II. Short Term Courses

Serial No.	Oplan No.	Programme Title	Start Date	Ending Date	Coordinator(s) Details	Course Fees
1	ICTO-114	Fundamentals of Concrete Technology	20/07/20	24/07/20	Dr. Hemant Sood	Rs.118/-

2	ICTO-157	AutoCAD for Engineers	17/08/20	21/08/20	Er. Vinod Kumar Sonthwal	Rs.118/-
3	ICTO-161	Fire Resistant Design of Structures	24/08/20	28/08/20	Er. Himmi Gupta	Rs.118/-
4	ICTO-205	Rural Construction Technologies	31/08/20	04/09/20	Dr. Amit Goyal	Rs.118/-

(Includes ATAL Programmes, Consultancy Programmes)

- 1.
- 2.

Total no. of participants trained:

MOOCS SWAYAM COURSES

- 1.

B. Instructional Material Development

Name of the Team Member	Name of Course Content any developed	Video Scripts/ Readers developed with Assignments and Quiz	Lab Manuals developed
Er. Himmi Gupta	PPTs on 1. Green Buildings 2. Fire Resistant Design of Structures	Artificial Intelligence in Civil Engineering	Lab Manual on Abaqus for design of RCC Beams.

TARGET FOR ACTIVITY VII (Instructional Material Development)

Sr. no.	Name of Programme/Project	Long term/Short Term	Type of Instructional Material	Coordinator(s)	Time Period	Expectation during four quarters of six months each (4 Nos) for a total period of next 2 years

1						
2						

C. Curriculum Development

- Prepared curriculum for PG programme for deemed university.
- Prepared curriculum for Clean Technology and Sustainable Development as per
- Development of Professional Development modules for Higher levels of faculty members as per AICTE.

D. Research and Development

PhD Guidance

Dr. Sanjay Kr. Sharma----- 7

Dr. Hemant Sood --- 3

PhD Awarded

Supervisor	Thesis Submitted	Student Name
Dr. Sanjay Kr. Sharma Dr. Poonam Syal	Dev. of Design Criteria for Net Zero Energy Buildings in Composite Climate Zone	Balkar Singh

ME Final Thesis Viva Conducted for following candidates.

NAME AND BATCH	THESIS TITLE
Subhanshu Dadwal Roll No.151325 08-CET-97	Study on Impact of New Development on existing Drainage System using Hydraulic Grade Line Analysis (Dr. SKS) 23 rd Dec, 2019

ME Final Thesis Viva Conducted for following candidates.

Research Publications

Faculty	Sci routine Journals	Scopus index Journals	UGC/AICTE Approved Journals	Any Other Journals	Total

Dr. Sanjay Kr. Sharma	1	1	2	M.E. Thesis	4
Dr. Hemant Sood	1	1	4		6
	2				10

Details of Publications

1. Subhanshu Dadwal , Dr. Sanjay Kumar Sharma, “Impact of New Development on Drainage System and Design of Suitable LID Structures- 3rd International Conference on Innovative Technologies for Clean and Sustainable Development organised by NITTTR, Chandigarh and MAU. Book Chapter Publication with Elsevier process - NITTTR Chandigarh, 19-21 February, 2020
2. Published Research paper on “Effect of colloidal Nano Silica and Carbonation on Mechanical and Durability properties of Recycled Aggregate Concrete: A Review” in International Journal of Modernisation in Engineering Technology and Science November 2020, Volume 2, Issue 11, eISSN-2582-5208 (Irfan Ahmed Malik/HS)
3. Published Research paper on “A Critical Review on Prioritization of Road Segments for user Safety and Identification of Black Spots” in Indian Highways Published by Indian Roads Congress, September 2020, Volume 48, Number 9, pages 25-33, weblink <https://www.irc.nic.in> (Mohit Nandal, Navdeep Mor, Hemant Sood)
4. Published Research paper on “An Overview of Use of Artificial Neural Network in Sustainable Transport System” in Computational Methods and Data Engineering, Advances in Intelligent Systems and Computing 1227, Editors V. Singh et.al (eds.) https://doi.org/10.1007978-981-15-7876-3_7, Publishers Springer, Proceedings of ICMDE 2020 Volume 1 (Mohit Nandal, Navdeep Mor, Hemant Sood)
5. Published Research paper on “Design of Flexible pavement: A MATLAB program as per guidelines of IRC:37-2018” Journal of Engineering & Technology Education publishers NITTTR, Chandigarh, Volume 14, No. 1, January – June 2020 (Vandna Sambyal, Hemant Sood, Manjit Singh) December 2020
6. Madhu Babu.S, Himmi Gupta, “Use Of Viscous Dampers For Enhancement Of Seismic Response Of RCC High-Rise Buildings - A Review- Journal Of Emerging Technologies And Innovative Research (JETIR) JETIR June 2019, Volume 6, Issue 6 Www.Jetir.Org (Issn-2349-5162)

BOOK Published

- 1.
- 2.

BOOK Chapter Published

1. Published a book Chapter on “Stabilizing Different Subgrade Soils with Pond Ash to Lower Greenhouse Gas Emissions for Bituminous pavements in India” in **Book (Electronic and Print Format)** on “Urban Air Quality Monitoring, Modelling and Human Exposure Assessment” by Springer 23.10.2020.

- Published a book chapter in **book Application of ICT-Driven Machine Learning Techniques For Prediction of Road Accidents: Hidden Eye to Sustainable Road Infrastructure** in a book titled “Fundamentals and methods of Machine and Deep Learning: Algorithms, Tools, and Applications” by Wiley_Scrivener Press.
- Published a book Chapter **Application of brick Kiln Dust for Sustainable Construction** in a book titled “Sustainable Development through Engineering Innovations”. Lecture Notes in Civil Engineering Volume 113 by Springer Nature November 2020.

Conferences:

- Research paper on “Developing and Enhancing the properties of Concrete using RMC sludge” in International Conference on Advances in Applied Sciences, Humanities & Technology to Overcome Global Disasters held at Raja Balwant Singh Engineering Technical Campus, Bichpuri (AGRA) -283105 from 18-19 September, 2020 (Vikas/ HS)

Research Projects Submitted

- Submitted Research Project under CRDTH of DSIR.
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Grant received for Research Project/sponsored project

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-

Research Project/Sponsored Project In progress

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-

E. EXTENSION SERVICES AND CONSULTANCY

- External Examiner for M.Tech Viva-Voce Examination of PEC, Chandigarh students.
- Member BOS of CCET, Chd and DCRUST Murthal-Attended number of meetings.
- Expert lecture on SCC in a TEQUIP-III sponsored online FDP program at GB Pant Institute of Engineering & Technology Pauri, Uttarakhand.

Consultancy from July to September,2020

Consultancy Projects	Gross Value	NET IRG
Testing of Materials, Design, Quality Control, Third Party Audit of Quality Control Inspection, Stability of Structures, NVAL Training Program.	41,98,492.00	35,58,051.00

Purchase Status

S.NO.	GeM/ETENDER/QUOTATIONS	PO DATE (DD/MM/YY)	PAID IN	ITEM	QTY	TOTAL PRICE	STATUS
1	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-

3,420,616

Training attended

Name of Faculty	Training attended	Dates
Er.Himmi Gupta	Control Charts & trend Analysis in line with ISO 17025:2017 by A Dasgupta, Bangalore	1-10 July,2020
	Two weeks Industrial Training at Chandigarh Housing Board	20-31 July,2020
	AICTE sponsored one week online STTP, Phase –I on Soft Computing Techniques in Civil Engineering by Shri Vishnu Engg. College for Women, Bhimavaram, Andhra Pradesh	17-22 August,2020