CURRICULUM DEVELOPMENT CENTRE

Progress Report from 1st April 2021 to 31st December, 2021

I.   Details of M.E. Programmes:

ME Subjects	Batches	Name of the Faculty
ME (ECE) (AI) Deep Neural Networks	2020-22	Dr. Meenakshi Sood
ME(ECE)3rd Semester 2020 batch NN&FL	2020	Meenakshi Sood
ME(CSE)2nd Semester (Modular) Soft computing	2020	Meenakshi Sood

II.

A.   STUDENT TRAINING Organized:

Sr. No.	Name of the Course alongwith dates & place	No. of weeks	Participation		Total No. of Participants
			Poly	Engg.	
----------------NIL ------------------					

B.   INTERNATIONAL CONFERENCES Organized

Sr. No.	Name of the Seminar/Conference	Total No. of Participants
-----------------NIL ------------------		

C.   NATIONAL CONFERENCES ORGANIZED:

Sr. No.	Name of the Seminar/Conference	Total No. of Participants
-----------------NIL ------------------		

III   WORKSHOPS CONDUCTED (OTHER THAN CURRICULUM DEVELOPMENT WORKSHOPS):

Sr. No.	Name of the Workshop along with dates and venue	Total No. of Participants
1.	Awareness talk-cum-Eye checkup on 27.10.2021 at NITTTR, Chandigarh (Meenakshi Sood)	65
2.	Seminar on Quality Ecosystem through NEP 2020 on 26.10.2021 (Meenakshi Sood)	-
3.	Oral Health workshop online June 2021 (Meenakshi Sood)	48

IV.   INSTRUCTIONAL MATERIAL DEVELOPMENT

Sr. No.	Type of Instructional Material Developed	Author(s) /Team	Project Completed In progress	Specific Achievements during the year	Target date of completion
PRINT MATERIAL					
-----------------NIL ------------------					
NON-PRINT MATERIAL					
-----------------NIL ------------------					

INSTRUCTIONAL MATERIAL DEVELOPMENT

Type of Instructional Material	No. Completed during 2021-22	Remarks (if any)
PRINT :		
Text Books		
Lab. Manuals		
Teachers' Manual		
Modules		
Readers		
Any other (Please specify)		
NON-PRINT :		
Video Films		
CAI Packages		
Experimental Kits		
Charts		
Any other (Please specify)		

Information above to be given only in case of completed Learning Resources. Title of the material(s) (topics/subjects as the case may be) should also be given.

V.   CURRICULUM DEVELOPMENT

A.   CURRICULA DESIGNED: English Communication Skills I, II,
                                   Engineering Graphics
                                   Environmental Studies and Disaster Management
                                   Basic Sciences

B.   CURRICULA REVISED:

C.   CURRICULUM DEVELOPMENT WORKSHOPS: AEERO, Delhi and HSBTE

Sr. No.	Name of Curriculum	Dates	Beneficiary States	No. of participation
1.	Diploma in Fire Technology & Industrial Safety Operations	28.05.2021	Delhi	10
2.	PG Diploma in Fire Technology & Industrial Safety Operations	28.05.2021	Delhi	10
3.	Sub Fire Officer	28.05.2021	Delhi	10
4.	Certificate in Basic Elementary course in Firefighting	28.05.2021	Delhi	10
5.	Certificate in Fireman	28.05.2021	Delhi	10
6.	Advance Diploma in Industrial Safety	31.05.2021	Delhi	16
7.	Diploma in Health Sanitary Inspector	03.06.2021	Delhi	24
8.	General Duty Assistance	03.06.2021	Delhi	24
9.	Advance Diploma in Industrial Safety	05.06.2021	Delhi	7
10.	Diploma in Industrial Safety Management	08.06.2021	Delhi	8
11.	PG Diploma in Industrial Safety Management	08.06.2021	Delhi	7
12.	Post-Graduation Diploma in Occupational Safety Health and Environment Management	18.06.2021	Delhi	16
13.	Eltx. & Commn. Engineering	31.05.2021	Haryana	12
14.	Library and Information Science	31.05.2021	Haryana	11
15.	Computer Engineering	02.06.2021	Haryana	13
16.	Electrical Engineering	02.06.2021	Haryana	11
17.	Medical Laboratory Technology	03.06.2021	Haryana	12
18.	Textile Design	07.06.2021	Haryana	15
19.	Textile Processing	07.06.2021	Haryana	15
20.	Textile Technology	07.06.2021	Haryana	15
21.	Instrumentation and Control Engg	09.06.2021	Haryana	10
22.	Finance, Accounts and Auditing	11.06.2021	Haryana	15
23.	Architectural Assistantship	11.06.2021	Haryana	7
24.	Business Management	11.06.2021	Haryana	15
25.	Plastic Engineering	14.06.2021	Haryana	10
26.	Fashion Technology	14.06.2021	Haryana	13
27.	Fashion Design	14.06.2021	Haryana	13
28.	Chemical Engineering	21.06.2021	Haryana	13
29.	Chemical Engg.(Pulp & Paper)	21.06.2021	Haryana	13
30.	Mechanical Engg(Tool & Die)	21.06.2021	Haryana	15
31.	Office Mgt & Comp. Application	22.06.2021	Haryana	13

Sr. No.	Name of Curriculum	Dates	Beneficiary States	No. of participation
32.	Mechanical Engineering	23.06.2021	Haryana	17
33.	Medical Electronics	25.06.2021	Haryana	10
34.	Agriculture Engineering	25.06.2021	Haryana	12
35.	Automobile Engineering	25.06.2021	Haryana	12
36.	Civil Engineering	25.06.2021	Haryana	7
37.	Ceramic Engineering	28.06.2021	Haryana	10
38.	English & Commn. Skills	29.06.2021	Haryana	6
39.	Advance Diploma in Tool & Die (Un-aided) (4 years)	30.06.2021	Haryana	13
40.	Applied Science(common subject)	01.07.21	Haryana	17
41.	Post-Graduation Diploma In Occupational Safety Health And Environment Management	03.07.21	Delhi	9
42.	General workshop practice(common subject)	16.07.21	Haryana	10
43.	General Workshop practice(common subject)	23.07.21	Haryana	13
44.	Post-Graduation Diploma In Occupational Safety Health And Environment Management	24.07.21	Delhi	7
45.	Advance Diploma in Industrial Safety	24.07.21	Delhi	7
46.	Applied Mathematics(common subject)	05.08.21	Haryana	10
47.	Eltx. & Commn. Engineering	12.08.21	Haryana	9
48.	Library and Information Science	24.08.21	Haryana	8
49.	Computer Engineering	10.08.21	Haryana	11
50.	Electrical Engineering	31.08.21	Haryana	8
51.	Medical Laboratory Technology	23.08.21	Haryana	7
52.	Textile Design	19.08.21	Haryana	12
53.	Textile Processing	19.08.21	Haryana	12
54.	Textile Technology	19.08.21	Haryana	12
55.	Instrumentation & Control	17.08.21	Haryana	8
56.	Finance, Accounts & Auditing	01.09.21	Haryana	11
57.	Architectural Assistantship	25.08.21	Haryana	6
58.	Business Management	01.09.21	Haryana	11
59.	Plastic Engineering	27.08.21	Haryana	5
60.	Fashion Technology	17.08.21	Haryana	6
61.	Fashion Design	17.08.21	Haryana	6
62.	Chemical Engineering	20.08.21	Haryana	9
63.	Chemical Engineering (Pulp & Paper)	20.08.21	Haryana	9
64.	Office Management and Computer Application	19.08.21	Haryana	9

Sr. No.	Name of Curriculum	Dates	Beneficiary States	No. of participation
65.	Mechanical Engineering	03.08.21	Haryana	8
66.	Medical Electronics	27.08.21	Haryana	7
67.	Automobile Engineering	06.08.21	Haryana	4
68.	Civil Engineering	31.08.21	Haryana	9
69.	Ceramic Engineering	26.08.21	Haryana	6
70.	Advance Diploma in Tool & Die Making (4 years	17.08.21	Haryana	7
71.	Food Technology	18.08.21	Haryana	4
72.	Applied Mathematics	31.08.21	Haryana	5
73.	Diploma in Fire Technology & Industrial Safety Operations	09.09.21	AEERO, Delhi	3
74.	Sub Fire Officer	09.09.21	AEERO, Delhi	3
75.	Certificate in Basic Elementary Course in Firefighting	09.09.21	AEERO, Delhi	3
76.	Certificate in Fireman	09.09.21	AEERO, Delhi	3
77.	PG Diploma in Fire Technology & Industrial Safety Operations	09.09.21	AEERO, Delhi	3
78.	Diploma in Health Sanitary Inspector	05.08.21	AEERO, Delhi	3
79.	General Duty Assistant	05.08.21	AEERO, Delhi	12
80.	PG diploma in industrial Safety Management	10.09.21	AEERO, Delhi	10
81.	Diploma in Industrial Safety Management	10.09.21	AEERO, Delhi	10
82.	Sub Fire Officer	15.09.21	AEERO, Delhi	3
83.	Civil Engineering		Haryana State	
84.	Brainstorming workshop for design of NSQF aligned curriculum for PSBTE	02.12.2021	PSBTE	6
85.	Finalizing study scheme and subject contents of 1st year Civil Engineering	18.11.2021	HSBTE	10

VI. RESEARCH AND DEVELOPMENT

Sr. No.	Name of Project	Team	Beneficiary State	Status of Project completed/ In progress	Specific work done during the year	Target date of completion
A.	**RESEARCH STUDIES**					
B.	**DEVELOPMENT PROJECTS**					
C.	**DISSERTATION FOR MASTER'S DEGREE PROGRAMMES COMPLETED**					
1.	Shivani	Rajesh Mehra/ Meenakshi Sood	ME	Thesis submitted		
2.	Simran	Rajesh Mehra/ Meenakshi Sood	ME			

VII. EXTENSION SERVICES AND CONSULTANCY

Sr.No.	Name of Project	Team	Beneficiary Organization	Status of Project Completed/in Progress	Specific work done during the year
A.	**EXTENSION SERVICES PROJECTS:**				
1.	Achieving dreams of self-reliant India through Inculcating cultural values	-	-	-	-
B.	**CONSULTANCY PROJECTS:**				
1.	Undertaken a project to design and develop NSQF compliant curriculum of 10 courses from Aarav Educational & Employment Research Organization (AEERO) Delhi,	CDC faculty	AEERO, Delhi	In progress	Designing curriculum
2.	Undertaken a project to design and develop NSQF compliant curriculum of 27 diploma courses from HSBTE, Haryana	CDC Faculty	HSBTE	In progress	Designing curriculum

VIII. TRAINING PROGRAMMES ATTENDED BY THE INSTITUTE FACULTY/STAFF

Sr. No.	Title of Training Programme	Period of Training	Venue	Attended by
1.	Online workshop on "Challenges & Issues of implementating NEP 2020"	28.04.2021	NITTTR, Chd	Dr. AB Gupta
2.	Colombo Plan Staff College (CPSC), Manila, Philippines	26-20.04. 2021	Online	Dr. Meenakshi Sood
3.	Quality Ecosystem through NEP-2020	26.10.2021	NITTTR, Chd	Dr. SK Gupta
4.	National Workshop on Curriculum Design organized by ASSOCHAM Education Council (Tamil Nadu & Kerala Chapter) and KCLAS **are organizing** Facilitator: Dr. Shitanshu Mishra, Information Technology Officer, MGIEP, UNESCO & Former Research Scientist, IIT Bombay	29 & 31.10.2021		Dr. Meenakshi Sood
4.	Effective Office Management and Office Procedures for Executive Secretaries, PA/PS, Stenographers & Office Staff being organized by Systematic Institute of Economic Research & Development	25-27.11. 2021	Goa	Ramesh Gupta

IX. IN-HOUSE TRAINING PROGRAMMES

Sr. No.	Title of Training Programme	Period of Training	Attended/Organized by
1.	Mentors' workshop for Haryana-Delhi	21-25 .06. 2021	Dr. Meenakshi Sood
2.	Mentor's workshop on Module on Professional Ethics	22.06.2021	Dr. Meenakshi Sood
3.	Mentor's workshop for UP state	27.09.2021 to 01.10.2021	Dr. Meenakshi Sood

X. OTHER CONTRIBUTIONS INCLUDING INDIVIDUAL CONTRIBUTION

A. PATENTS/COPYRIGHT

Sr.No.	Name of Patents/Copyright	Author (s) Name
1.	Application Number- 202111031068 "A SYSTEM FOR MONITORING PLANTATION AND A METHOD THEREOF" has been published in India Patent Journal on dated 30th July 2021.	

B.   PAPERS PUBLISHED BY THE INSTITUTE FACULTY:

SCI JOURNAL

Sr.No.	Name of the Paper Published	Author (s) Name
1.	Transfer learning based robust automatic detection system for diabetic retinopathy grading. *Neural Comput & Applic* **33,** 13999–14019 (May 2021). https://doi.org/10.1007/s00521-021-06042-2 **(SCIIF:4.715)**	Bhardwaj, C., Jain S. & Sood, M.
2.	Deep Learning–Based Diabetic Retinopathy Severity Grading System Employing Quadrant Ensemble Model. J Digit Imaging (2021). April https://doi.org/10.1007/s10278-021-00418-5 (**SCI indexed, IF: 4.056**)	Bhardwaj, C., Jain S. & Sood, M.

C.   PAPERS PUBLISHED BY THE INSTITUTE IN <u>INTERNATIONAL</u> JOURNAL OTHER THAN SCI JOURNALS

Sr.No.	Name of the Paper Published	Author (s) Name
1.	BOOK CHAPTER SCOPUS JOURNAL Speech Recognition Employing MFCC and Dynamic Time Warping Algorithm. In: Singh P.K., Polkowski Z., Tanwar S., Pandey S.K., Matei G., Pirvu D. (eds)Innovations in Information and Communication Technologies (IICT-2020). Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham. (July 2021) https://doi.org/10.1007/978-3-030-66218-9_27 https://link.springer.com/chapter/10.1007/978-3-030-66218-9_27	Sood M., Jain S.

D.   PAPERS PUBLISHED BY THE INSTITUTE FACULTY IN <u>NATIONAL</u> JOURNAL

Sr.No.	Name of the Paper Published	Author (s) Name
----------------NIL ------------------		

E.   PAPERS PUBLISHED / PRESENTED IN <u>INTERNATIONAL</u> CONFERENCES/SEMINARS

Sr.No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar (venue, with date)	Author (s) Name
1	Optimized Perovskite Solar Cell Design using Suitable Defects in Layers for Enhanced Efficiency," 2021 6th International Conference on Signal Processing, Computing and Control (ISPCC), Oct 2021, pp. 550-555, doi: 10.1109/ISPCC53510.2021.9609485.	K. Shiwani, R. Mehra, S. Malhotra and M. Sood,
2	A Comparison of several HTMs and ETMs to enhance efficiency using MASnI3 as an absorber layer" accepted in IEEE international conference ICIIP-2021 (Dated November 26-28, 2021) (**Scopus indexed**) with paper ID 1570766485.	Simran Malhotra, Rajesh Mehra, Km Shiwani and Meenakshi Sood

PAPERS PUBLISHED / PRESENTED IN <u>NATIONAL</u> CONFERENCES/SEMINARS

Sr.NO.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar (venue, with date)	Author (s) Name
-----------------NIL -----------------		