# **REPORT FOR OCTOBER- DECEMBER 2021**

#### I. Details of ME Programmes

ME Subjects	Batches	Name of the Faculty
Advance Digital Signal Processing (ECE-1101)	M.E (E&CE) 2021-23 batch (Regular)	Dr. Amod Kumar
Advance Digital Signal Processing (ECE-1101)	M.E (E&CE) 2020 batch 3 <sup>rd</sup> spell (Modular)	Dr. Amod Kumar
Information Theory and Coding	M.E (E&CE) 2021 (Regular)	Dr. B S Dhaliwal
	M.E (E&CE) 2021 (Modular)	Dr. B S Dhaliwal
Fiber Optic Communication (ECE- 1102)	M.E (E&CE) Regular 2021 Batch, 1 <sup>st</sup> Sem	Dr Balwinder Raj
VLSI Design (ECE1205)	M.E.(E&CE) Modular 2020 Batch and 2021 Batch	Dr Balwinder Raj
Digital System Design	M.E (E&CE) 2021 (Regular)	Dr. Kanika Sharma
Embedded System Design	M.E (E&CE) 2021 (Regular)	Dr. Kanika Sharma
Advance Digital Communication	M.E (E&CE) 2021 (Regular)	Dr. Garima Saini
Wireless and Mobile Communication	M.E (E&CE) 2019 (Modular)	Dr. Garima Saini
Artificial Intelligence lab practice	M.E (A I) 2020 (Regular)	Dr. Garima Saini

II.

# A. STUDENT TRAINING Organized

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

## B.. INTERNATIONAL CONFERENCES Organized

Sr. No.	Name of the Seminar/Conference	No. of Participants

# C. NATIONAL CONFERENCES ORGANIZED:

Sr.	Name of the Seminar/Conference	No. of Participants
No.		
1	Organized one day seminar on Quality Ecosystem Through	280
	NEP-2020, Conducted online by Atmanirbhar Bharat Task	
	Force and Bharatiya Shikshan Mandal, Punjab, held on 26 Oct	
	2021. (Dr. Balwinder Raj)	

2	Organized online 10 <sup>th</sup> Annual Alumni Meet of NITTTR	80
	Chandigarh, held on 6 Dec 2021. (Dr. Balwinder Raj)	

## III WORKSHOPS CONDUCTED (OTHER THAN CURRICULUM DEVELOPMENT WORKSHOPS):

Sr. No.	Name of the Workshop alongwith dates and venue	No. of Participants
1.	One day Seminar on "quality Ecosystem" through NEP 2020 (Dr. Balwinder Singh Dhaliwal & Dr. Balwinder Raj)	288

# 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				
NON-PF	RINT MATERIAL				-

#### INSTRUCTIONAL MATERIAL DEVELOPMENT

Type of Instructional Material	No. Completed during 2020-21	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:

# B. CURRICULA REVISED:

### C. CURRICULUM DEVELOPMENT WORKSHOPS:

Sr. No.	Name of Curriculum	Number of Subjects/Course	Beneficiary States	Participation		n
				Poly. Ind. Others		Others

#### 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	
Α.	RESEARCH STUDIES						
В.	B. DEVELOPMENT PROJECTS						

## VII. TRAINING PROGRAMMES ATTENDED BY THE INSTITUTE FACULTY/STAFF

Sr. No.	Title of Training Programme	Period of Training	Venue	Attended by
1	"Environmental Cyber	25-29 October 2021	Online	Dr Balwinder Raj
	Physical systems" sponsored			
	by Indo-South Korea Joint			
	Network Center, IIT Indore			
	and IIT (BHU) Varanasi			
2	"INUP-i2i Familiarization	20 – 22 December	Online	Dr Balwinder Raj
	Workshop on Nanofabrication	2021		
	Technologies", supported by			
	MeitY, Govt. of India and IISo			
	Bangalore			
3	"TAPAS-PRM" A purposeful	16/12/2021 to	Online	Dr. Garima Saini
	Research Methodology &	20/12/2021		
	Interaction course by RERF &			
	EICT- Guwahati			
4	"TAPAS-PRM" A purposeful	16/12/2021 to	Online	Dr. Kanika Sharma
	Research Methodology &	20/12/2021		
	Interaction course by RERF &			
	EICT- Guwahati			
5	Internet of things and Human –	25/10/2021 to	Dr. Kanika Sharma	Internet of things
	computer Interaction	29/10/2021 NIT Goa		and Human –
		(online)		computer Interaction
				inclaction

# VIII. IN-HOUSE TRAINING PROGRAMMES

Sr. No.	Title of Training Programme	Period of Training	Attended by

#### IX. OTHER CONTRIBUTIONS INCLUDING INDIVIDUAL CONTRIBUTION

#### A. <u>PATENTS/COPYRIGHT</u>

Sr.No	Name of Patents/Copyright	Author (s) Name

#### B. PAPERS PUBLISHED BY THE INSTITUTE FACULTY:

# SCI JOURNAL

Sr.No	Name of the Paper Published	Author (s) Name
1.	Speech-Based Vehicle Movement Control Solution Journal of Telecommunications and Information Technology (IF=0.79) https://doi.org/10.26636/jtit.2021.149820	Gurpreet Kaur Mohit Srivastava and Amod Kumar
2	Methods for Integration of III-V Compound and Silicon Multijunction Solar Cell", Journal of Silicon, Springer, (Accepted 18 Dec 2021)	Divya Sharma, Rajesh Mehra and Balwinder Raj

# C. PAPERS PUBLISHED BY THE INSTITUTE: INTERNATIONAL JOURNAL OTHER THAN SCI JOURNALS

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

# D. PAPERS PUBLISHED BY THE INSTITUTE FACULTY: NATIONAL JOURNAL

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

## E. PAPERS PUBLISHED / PRESENTED IN:

# INTERNATIONAL CONFERENCES/SEMINARS

Sr.No.	Title of the Paper Presented/Accepted alongwith a Name of	Author (s) Name
	the Conference/Seminar (venue, with date)	
1.	"Investigation of Impact of Mobile Phone	Suman Pattnaik, Balwinder

	Radiations on EEG/ECG and Modeling of Their Coherence using ANN Ensemble" 3 <sup>rd</sup> International Conference on Sustainable and Innovative solutions for Current Challenges in Engineering & Technology (ICSISCET 2021) 13 <sup>th</sup> -14 <sup>th</sup> November, 2021, Madhav Institute of Technology & Science, Gwalior, India	Singh Dhaliwal and S.S. Pattnaik
2.	"Analysis of the effect of Infill Density of 3D Printed substrate on Rectangular Microstrip Antenna Performance," IEEE Sponsored 'Indian Conference on Antennas and propagation (InCAP 2021), December 13-16, 2021, Malaviya Natiional Institute of Technology, Jaipur.	Balwinder Singh Dhaliwal, Kush Singla and Garima Saini

#### NATIONAL CONFERENCES/SEMINARS

Sr.No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar (venue, with date)	Author (s) Name
1.	"Flexible Wearable Fractal Antennas: An Overview," National convention of Electronics and Telecommunication Engineers, The Institution of Engineers (India), Bathinda Local Centre, Bathinda December 4-5,2021, PP.1-6, (Published in Proceedings)	Puja Rani, Balwinder S Dhaliwal and Amod Kumar
2.	"Compact Wearable Fractal Patch Antenna and its Performance Analysis for BAN," National Convention of Electronics and Telecommunication Engineers, The Institution of Engineers (India), Bathinda Local Centre, Bathinda, December 4-5,2021, pp.122-130. (Published in Proceedings)	Vikas Jain, Shubhranshu Pattnaik, Balwinder Singh Dhaliwal and Jayant G Joshi

## F. ANY OTHER ACTIVITIES:

Dr. Balwinder Singh Dhaliwal, Kush Singla, Garima Saini- analysis of the effect of infill density of 3D Printed Substrate on rectangular Microstrip antenna performance,"IEEE Sponsored" Indian conference on Antenna and Propagation (In CAP 2021) December 13-16,2021 MNIT, Jaipur.

HOE (ECE) Department