Value Added Courses attended by Students

Year	Name of Course
2018-19	Analysis and Design of RC Building: Concepts and Practice
	Machine Learning Applications in Engineering
	Energy Conservation and Alternative Sources of Energy
	AI, Big Data and HPC Aligned Applications – A Modern Approach of Computing
	Tribological Analysis of 4-Dimensional Printed Engineering Materials
2017-18	Insights of Image Processing and their recent trends
	Research Opportunities in Medical Imaging, Biomedical Engineering and Health Informatics
	Waste Management by Additive Manufacturing
	Optimization Life Enhancement of Bio-Medical Implants by Additive Manufacturing and Protective Coatings
	Waste Management by 3 Dimensional/4Dimensional Printing
2016-17	Solid Waste Management in Indian Cities: Issues and Concerns
2015-16	Waste Management and Optimization Techniques
2014-15	Latest Trends in Information and Communication Technologies

Sequence of Proofs

Course Report

Schedule of course

Attendance sheet

Sample Certificates

PRESS REPORT

A five day QIP sponsored short term training program on 'Analysis and Design of RC buildings: Concepts and Practice' concluded at Guru Nanak Dev Engineering College, Ludhiana. It was organized by Civil Engineering Department of the college under the mentorship of Principal Dr Sehajpal Singh. Around 35 participants attended the course and learned about the finer details and new developments of the structural designing of concrete buildings. On the final day of the course, the design project works completed by the participants during the hands-on-training sessions were evaluated by the experts and discussions were held to improve the projects further. At the end, Head of the department, Professor K S Gill congratulated the participants on their successfully completing the course and advised them to put the concepts learnt during the course into their professional life to serve the community better in constructing their houses economically with mandated safety margins. Faculty coordinator of the program, Dr Harvinder Singh informed the participants about various design aspects and other legal aspects associated with the design process. It is now-a-days mandatory for building professionals, architects, engineers to release drawings that are designed and constructed exactly as per the requirements of various Indian standards. As most of the Punjab is located in the seismic zone IV, the people there must insist on a certified copy of the drawings from the building professionals that the building they are constructing is designed exactly as per the relevant Indian Standards and they should avoid the prevailing practice of constructing their houses/buildings without getting a certified copy of the drawings. He also highlighted the fact that the buildings designed following the prescribed guidelines are safe to occupy and also leads to a considerable saving in the construction and repair & maintenance costs at a later stage. The availability of high strength steel rebars, cements and other building products helps to achieve these mandated targets easily and the participants were appraised about the benefits the public would get if the buildings were designed using these high end material, e.g. the use of Fe600 grade steel in the design of RC buildings would directly pass on a benefit of approximately Rupees one to two for every square feet of the constructible area depending upon the type of the building. The course ended on an advice to the participants to explore the use of high end material in the design and help the nation to save natural resources going waste without inadequate structural advice.



Group photo of experts, coordinator and participants of the course

Guru Nanak Dev Engineering College Ludhiana Civil Engineering Department

Program Schedule

Analysis and Design of RC Buildings: Concepts and Practice

(5 days QIP sponsored STTP)

23 February, 2019						
Project Review						
(Team-1 to 5)						
(JPS & HSR)						
(HVS)						
Project Review						
(Team-6 to 10)						
(JPS & HPS)						
Project Review						
(Team-11 to 15)						
(JPS & KSG)						
Concluding remarks by						
expert and distribution						
of certificates						

5 days QIP sponsored STTP, February 19-23, 2019 Attendance sheet

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5 days QIP sponsored STTP, February 19-23, 2019

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5 days QIP sponsored STTP, February 19-23, 2019 Attendance sheet

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5 days QIP sponsored STTP, February 19-23, 2019

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5 days QIP sponsored STTP, February 19-23, 2019 Attendance sheet

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5 days QIP sponsored STTP, February 19-23, 2019

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5 days QIP sponsored STTP, February 19-23, 2019 Attendance sheet

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5 days QIP sponsored STTP, February 19-23, 2019

Attendance sheet

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5 days QIP sponsored STTP, February 19-23, 2019 Attendance sheet

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5 days QIP sponsored STTP, February 19-23, 2019 Attendance sheet

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Guru Nanak Dev Engineering College, Ludhiana (An Autonomous College under UGC Act)

Certificate of Participation

This certificate is awarded to

JASPREET KAUR (GNDEC, LDH).

who participated in 5-day QIP sponsored Short Term Training Programme on

Analysis and Design of RC Building : Concepts and Practice

organised by the Department of Civil Engineering from 19 - 23 February, 2019.

Faculty Coordinator

Hedd of Department

Principal

Guru Nanak Dev Engineering College, Ludhiana (An Autonomous College under UGC Act)

Certificate of Participation

This certificate is awarded to

JOBANDEEP SINGH (GNOEC, LOH)

who participated in 5-day QIP sponsored Short Term Training Programme on

Analysis and Design of RC Building: Concepts and Practice

organised by the Department of Civil Engineering from 19 - 23 February, 2019.

Faculty Coordinator

Head of Department

Principal

PROCEEDINGS

TITLE: MACHINE LEARNING APPICATIONS IN ENGINEERING

DATE: February 04-08, 2019

An one week QIP Short Term Course on "Machine Learning Applications in Engineering" was conducted by Department of Electronics and Communication Engineering, Guru Nanak Dev Engineering College, Ludhiana from February 04-08, 2019.

The course was aimed to introduce the participants to Machine Learning and its various applications. The course planning for the course included the introduction, followed by the algorithms and applications of machine learning. State of the art technologies with hands on exercises were also planned for the course. Course being interdisciplinary in nature, faculty and research scholars of all engineering branches were eligible to apply. Dr. Sandeep Singh Gill and Er. Tarandeep Singh coordinated the course. An organising committee including the coordinators and faculty of the department of Electronics and Communication Engineering, Guru Nanak Dev Engineering College, Ludhiana was setup for the smooth running of the course. A total no. of 58 participants from various reputed colleges/ universities such as NIT Jalandhar, GCET jammu, DKTGI Rahon, Thapar University Patiala, MRSPTU Bathinda and many more attended the course. Various experts from IIT Ropar, NIT Jalandhar, Bennett University Greater Noida and many more presented their expertise. Hands on exercises on MATLAB, WEKA and PYTHON were also provided to the particippnts. Experts from Guru Nanak Dev Engineering College, Ludhiana also took part in this platform to present their

The list of experts present for the course is presented in Table 1.

S. No.	Name of Expert	College/University/Company
1	Dr Kanav Kahol	Pink Rickshaw Design, New Delhi
2	Dr. Kuldeep Singh Nagla	NIT Jalandhar
3	Dr. Kuldeep Kumar	NIT Jalandhar
4	Dr. Amit Kamra	GNDEC, Ludhiana
5	Dr. Sudarshan Iyengar	IIT Ropar
6	Er. Tarandeep Singh	GNDEC, Ludhiana
7	Er. Navjot Singh	AlertEnterprise, Chandigarh
8	Dr. Suneet Kumar Gupta	Bennett University, Greater Noida, U.P.
)	Dr. Neeraj Goel	IIT Ropar
0	Dr. Mukesh Saini	IIT Ropar
1	Dr. Sandeep Singh Gill	GNDEC, Ludhiana

Table 1: List of Experts

The 5 day session workshop commenced on 04th Feb, 2019 with the inaugural ceremony and keynote address by Dr. Kanav Kahol, Chief Technical Officer, Pink Rickshaw Design, New Delhi. Everyday 3 sessions were planned for the experts. The sessions were a mixture of theory and practical.



gements for Tea and Lunch was present for the participants as well as experts. The details for y session has been listed below:

Session 1: Scope of Machine Learning

The session was the introductory session for the course. This session introduced the participants to machine learning and how machine learning is transforming lives nowadays. It also focused on the applications of machine learning in various disciplines. This session was aimed to create a sense of curiosity and motivation for the participants and it proved to do so.

Session 2: AI in Mobile Robotics: Focused on multi sensor data fusion

This was the 2nd session in row. It was focused on the application of AI and Machine Learning in Robotics. The concept of multi sensors being fused in robotics was discussed. This session concluded with the focus of ISRO and DRDO in this area.

Session 3: A Practical Approach to Research Methodologies in Machine learning

This session focused on the research areas in machine learning and the practical approaches to research in this area. The present scenario in research was discussed and new Possible research areas were also listed.

Session 4: Transforming Machine Learning data through WEKA

This was a hands on session focused on WEKA. The participants were introduced to WEKA and were taught how to handle data in machine learning through WEKA. This session proved out to be very informative for the participants.

Session 5: Introduction to Machine Learning through motivational stories

This session targeted the motivation of the participants through some motivational stories in which machine learning had created a difference. A large no. of examples and proven stories were discussed with the participants where machine learning proved out to be very beneficial and large empires were setup on this concept

Session 6: Unsupervised learning algorithm that created a 500 billion dollar industry.

This was a hands on session on Python. This session started with the basics of Python and moved towards a certain algorithm that had helped to create a 500 billion dollar industry.

Session 7: Essentials of Machine Learning Algorithms

This session focused on various machine learning algorithms such as Random Forest, Support Vector Machine, Linear Regression, Logistic Regression, Decision Tree, Naive Bayes, kNN, K-Means and many more. The focus of this session was to introduce the participants to the basics of the actual algorithms working behind Artificial Intelligence and Machine Learning.

Session 8: Disruptive applications of AI in various industries with use cases and scientific solutions. This was a hands on session on Python where various problems from industries were taken and their solutions through machine learning were taught to the participants.

Session 9: Alignment of Academic and Research in modern day AI based disruption and opportunity for application oriented research activities

This session was focused to understand the gap between academic and research in AI and machine learning and how both can be aligned in accordance to the modern day scenario.



in 10: Basics of ML and AI

s was a hands on session in MATLAB. This session focused upon the basics of Machine Learning d Artificial Intelligence in Matlab. This session also helped a lot to the participants as majority of the participants were familiar with the environment in MATLAB. The participants also worked on some examples on machine learning that helped to enhance their knowledge on the use of this tool for Al.

Session 11: Hyperparameter Tuning

This session was focused on a very important topic i.e. to choose parameters on which the learning depends in machine learning algorithms. The algorithms discussed earlier were again reviewed but with an angle of learning parameters. The vision to these algorithms broadened after this session and participants were able to understand the nature of learning in various problems related to machine

Session 12: Convolutional Neural Network, Recurrent Neural Network

This session focused upon the uses of Neural Networks in Machine Learning. Along with the theory, hands on sessions on examples based on Convolutional Neural Network and Recurrent Neural Network were discussed in this session.

Session 13: Hardware architecture for Deep Learning Applications

This session was focused on the Hardware Architecture in Deep Learning. Along with the software or GUI Platform that's required for Machine Learning, the participants were able to understand the hardware requirements for AI through this session.

Session 14: Advanced Surveillance Systems

This session focused on the applications of machine learning with focus on advanced surveillance systems. In this session, the traditional surveillance systems were discussed and light was thrown on the changes in these systems that machine learning could perform.

Session 15: Future of Artificial Intelligence and Machine Learning

This was the concluding session of the course. This session focused on the future aspects of Artificial Intelligence and Machine Learning. This gave the participants an idea that what could be expected from Machine Learning in the future.

The Five day course ended on 08th Feb, 2019 with the valedictory ceremony. The participants were given certificates for their participation and feedback was taken from them. Based on the positive feedback received, this course surely helped them to broaden their vision about machine learning and will pave new paths in research areas in the future.



One week QIP Short Term Course on " Machine Learning Applications in Engineering " (February 04-08, 2019)

Schedule	Sch	edul	e
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	4 th February, 2019 (Monday)	5 th February, 2019 (Tuesday)	6 th February, 2019 (Wednesday)	7 th February, 2019 (Thursday)	8 th February, 2019 (Friday)
9:00am - 10:00am - 11:00am	Registration Keynote Address Dr. Kanav Kahol, Chief Technical Officer Pink Rickshaw Design New Delhi	Session-1 Dr. Amit Kamra, Asst. Prof., Dept. of IT, GNDEC,ldh Topic: Transforming machine learning data using WEKA.	Session-1 Er.Tarandeep Singh, Asst. Prof., Dept. of ECE, GNDEC,Idh Topic: Essentials of Machine Learning Algorithms.	Session-1 Dr. Suneet Kumar Gupta, Asst.Prof., Dept. of CSE, Bennett University, Greater Noida, Uttar Pradesh Topic:Basics of AI and ML	Session-1 Dr. Neeraj Goel, Asst. Prof. Dept. of CSE, IIT Ropar Topic: Hardware architecture for Deep Learning Applications.
11:00am-1	1:30am		TEA		
11:30am - 1:30pm	Session-1 Dr. Kuldeep Singh Nagla, Assoc. Prof., Dept. of Instrumentation & Control Engg.,NIT, Jalandhar Topic- AI in Mobile Robotics: Focused on multi sensor data fusion.	Session-2 Dr. Sudarshan Iyengar, Asst. Prof., Dept. of CSE, IIT Ropar Topic: Introduction to Machine learning through motivational stories.	Session-2 Mr. Navjot Singh, Associate Manager, AI & ML Alert Enterprise, Chandigarh Topic: Disruptive applications of AI in various industries with use cases and scientific solutions.	Session-2 Dr. Suneet Kumar Gupta, Asst.Prof., Dept. of CSE, Bennett University, Greater Noida, Uttar Pradesh Topic:Hyperparameter Tuning	Session-2 Dr. Mukesh Saini, Asst. Prof., Dept. of CSE, IIT Ropar Topic: Advanced Surveillance Systems.
1:30pm-2:3	30pm		LUNCH		
2:30pm- 4:30pm	Session-2 Dr. Kuldeep Kumar, Asst. Prof., Dept. of CSE, NIT Jalandhar Topic: A Practical approach to Research Methodologies in machine learning.	Session-3 Dr. Sudarshan Iyengar, Asst. Prof., Dept. of CSE, IIT Ropar Topic: Unsupervised learning algorithm that created a 500 billion dollar industry.	Session-3 Mr. Navjot Singh, Associate Manager, AI & ML AlertEnterprise, Chandigarh Topic: Alignment of Academic and Research in modern day AI based disruption and opportunity for application oriented research activities.	Session-3 Dr. Suneet Kumar Gupta, Asst.Prof., Dept. of CSE, Bennett University, Greater Noida, Uttar Pradesh Topic:Covolutional Neural network, Recurrent Neural network	Session-3 Dr. Sandeep Singh Gill, Prof., Dept. of ECE, GNDEC,Idh Topic: Future of AI and ML
4: 30pm -5	:00pm		TEA		Valedictory



GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

(Department of Electronics & Communication Engineering)

ECE No. 315 1

Date 25-02-2019

The following M.Tech (ECL) students have participated in 5 days QIP Short term course on "Machine Learning Applications in Engineering" organized from 04-08 February, 2019.

- 1. Infail Faroog
- 2. Diksha Puri
- 3. Kamalpreet Kam
- 4. Kshitij V Chaudhary
- 5. Jasdeep Singh
- o. Atamjeet Kaur
- Annitpal Kaur
- 8. Manpreet Kaur
- 9. Bhumika Narang
- 0. Shubhneet Kaur
- 11. Gurpreet Kaur
- 12. Supriya Sharma
- 13. Gurvir Kaur

Course Coordinator



Guru Nanak Dev Engineering College, Ludhiana

AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT-1956



Department of Electronics and Communication Engineering

QIP short term course

Certificate of Participation

This is to certify that Prof./Dr./Er./Mr./Ms. Tufail Farooq from GNDEC, Ludhiana, participated in the five (5) days short term course on "Machine Learning Applications in Engineering" from February 04-08, 2019.

Course Coordinator

Head of Deptt.

QIP Coordinator



Guru Nanak Dev Engineering College, Ludhiana

AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT-1956



Department of Electronics and Communication Engineering

QIP short term course

Certificate of Participation

This is to certify that Prof./Dr./Er./Mr./Ms. Diksha Puri from GNDEC, Ludhiana, participated in the five (5) days short term course on "Machine Learning Applications in Engineering" from February 04-08, 2019.

Course Coordinator

Head of Deptt.

QIP Coordinator

Experts dwell on Energy Conservation and Alternate Sources of Energy

In the weeklong program organized under Quality Improvement Program of AICTE by the Electrical Engineering Department of Guru Nanak Dev Engineering College, Ludhiana, the experts from industry and academia dwelled on energy conservation and alternate sources of energy. The program concluded today. Giving a brief about the program, Pf. Jaswinder Singh, HOD (EED) said that energy is required for all jobs we perform and the conventional sources of energy are fast depleting, hence this relevant theme was chosen for faculty development program. Dr. Sehijpal Singh, Principal, GNDEC said that such programs were regularly being in held for college faculty to enable them to get the latest know how and keep themselves updated with the development in various fields. Giving details of the proceedings of the program, Dr. Arvind Dhingra, Coordinator, informed that experts from industry including Ms. Sangita Kapoor, Blue Planet, Kolkata, Ar. Aalok Deshmukh, Energy Head, Schnieder Electric, Mumbai, Er. Rumi Engineer, GM, Godrej Boyce Ltd., Mumbai, Natioanl Award winning architect Siddharatha Wig, Sh. Anupam Nanda, Sr. DM, PEDA, Dr. Tejinder Singh Saggu, Punjab Engineering College, Chandigarh, Dr. Ritula Thakur, NITTTR, Chandigarh & Dr. Ashwani Kumar Sharma, NIT, Kurukshetra shared their views in the area. Internal speakers included Dr. Harmit Singh & Pf. Sukhwinder Singh. The experts were of the view that energy needs of the world and the methods to harness energy need to seen from a holistic point of view and not in isolation. Even water being pumped from the earth is energy and so is the food we eat having some embodied energy. Dr. Ashwani Kumar Sharma, Professor, NIT, Kurukshetra was the chief guest for valedictory ceremony. Over 40 participants from various universities, engineering colleges of the region participated in the program. Dr. Navneet Singh Bhangu and Er. Harmeet Singh Gill were the Co-coordinators of the program.

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA ELECTRICAL ENGINEERING DEPARTMENT

QIP Sponsored Faculty Development Program

OF

Energy Conservation & Alternative Sources of Energy January 29- February 2,2019 Schedule

Date	Time	Activity	Venue
Date			Workshop Seminar Hall
		Expert Talk by Ms. Sangita Kapoor	Workshop Seminar Hall
20 1 2019		Tea Break	Workshop Seminar Hall
	11.15AM-1.15PM	Expert Talk by Ms. Sangita Kapoor	Workshop Seminar Hall
29.1.2019	1.15PM-1.45PM	Lunch	Alumni Home
	1.45PM-3.45PM	Expert Talk by Er. Sidharath Wig	Workshop Seminar Hall
	3.45PM-4.00PM	Tea Break	Workshop Seminar Hall
	4.00PM-6.00PM	Expert Talk by Er. Sidharath Wig	Workshop Seminar Hall
	8.45AM-10.45AM	Expert Talk by Er.Rumi Engineer	Workshop Seminar Hall
	10.45AM-11.00AM	Tea Break	Workshop Seminar Hall
	11.00AM-1.00PM	Expert Talk by Aalok Deshmukh	Workshop Seminar Hall
30.1.2019		Lunch	Alumni Home
	1.45PM-3.45PM	Expert Talk by Aalok Deshmukh	Workshop Seminar Hall
	3.45PM-4.00PM	Tea Break	Workshop Seminar Hall
	4.00PM-6.00PM	Expert Talk by Er.Rumi Engineer	Workshop Seminar Hall
31.2.2019	8.00AM-5.00PM	Field Visit to PEDA building, Chandigarh & Renewable Energy Plant, Khattra	
31.2.2017	8.45AM-10.45AM	Expert Talk by Dr.Harmeet Singh	Workshop Seminar Hall
	10.45AM-11.00AM	Tea Break	Workshop Seminar Hall
	11.00AM-1.00PM	Expert Talk by Dr. Tejinder Singh Saggu	Workshop Seminar Hall
1.2.2019		Lunch	Alumni Home
1.2.2019	1.45PM-3.45PM	Expert Talk by Dr. Prashant Garg	Workshop Seminar Hall
100	3.45PM-4.00PM	Tea Break	Workshop Seminar Hall
77.7	4.00PM-6.00PM	Expert Talk by Sh. Anupam Nanda	Workshop Seminar Hall
	8.45AM-10.45AM	Expert Talk by Dr. Yadwinder Singh Bran	Workshop Seminar Hal
	10.45AM-11.00AM	Tea Break	Workshop Seminar Hai
	11.00AM-1.00PM	Expert Talk By Dr. Ritula Thakur	Workshop Seminar Hal
2.2.2010		Lunch	Alumni Home
2.2.2019	1.45PM-3.45PM	Expert Talk by Dr. Ashwani Sharma	Workshop Seminar Hal
	3.45PM-4.00PM	Feedback & Validectory	Workshop Seminar Hal
	4.00PM	Tea	Workshop Seminar Hal



Guru Nanak Dev Engineering College, Ludhiana

AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT-1956

Department of Electrical Engineering

QIP Sponsored Faculty Development Programme Certificate of Participation

This is to certify that Vishal Kuma	â.
From GNDEC, Ludhiana	participated in the one week QIP sponsored
Faculty Development Programme on "Energy Co	nservation and Alternate Sources of Energy" from
January 29th to February 2nd, 2019	

Course Coordinator

Head of Department

QIP Coordinator



Guru Nanak Dev Engineering College, Ludhiana

AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT-1956

Department of Electrical Engineering

QIP Sponsored Faculty Development Programme Certificate of Participation

	Shiran Sa	participated in the one week QIP sponsored
**************************************	*	ervation and Alternate Sources of Energy" from

Course Coordinator

Head of Department

QIP Coordinator/

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA DEPARTMENT OF ELECTRICAL ENGINEERING QIP sponsored FDP

Energy Conservation & Alternative Sources of Energy January 29- February 2,2019

S.N. Name of Participant		2	9.1.19			30.	1.2019		31.1.2019		1.2	2019			2.2.	2019	
	Session	1 Session	2 Session	3 Session	4 Session	1 Session	2 Session	3 Session	Field Visit	Session	1 Session 2	Session :	Session	Session 1	Session 2	Session 3	Seui
24 Dr. Navneet Singh Bhangu	N	I No	185	1	B	18	NB.	N	N.	14	NS	1	08	44	E	VS	13
25 Pf. Swapandeep Kaur	M		1 W	AV	X	In	1 8/	W	1	Y.	h	1	N	m	N	1	17
26 Pf. Raman Kumar	Pr.	8-	14-	Per-	82	1	R	Pe	R_	B	8-	6_	6_	-	-		18
27 Pf.Deepinder Singh	Do	100	10	1.0	1130	1	N	12	1	(2)	0	1	1	1	1	M	1
28 Pf. Ranjit Singh	100	177	1	4-16	V	100	1	100	100	T	N	14	100	109	1	80	150
29 Pf. Amrit Singh	4	14	-	14.	4	4	4	No.	Art	194	Do .	Br.	Nen	A	A.	4	10
30 Vishal Kumar	·il	13	a.L	O.A.	0.0	19 A	100	MA	00	0.6	36	an	CKK	22	Vie	use	14
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3 Baldeep Singh	23a-	5-	4-	16	62	-	2	5	-	5	1/2	100	Br	12	E No. L		5
4 Amritpal Singh	4	A.	53	50	76	4	5	व	W	N	A	15	\$	4	0	30-	100
5 Rajbeer Singh	12-	6-	2	6	12	0-	12-	0	ph II	- 0	12	80	10	-	13	1	12
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8 Ranvijay Kumar 😽	ar Mo	Rai Mar	77	R _C	Ray	7.		Re-	Ra	Ret	Rà	Ra	Ra	Ka-	Ra	Ray	た経典

coordinator

PAL Big Data and HPC Aligned Applications - A Modern Approach of Computing" during Dec. 31", 2018 to Jan. 04th, 2019

Information Technology Department of Guru Nanak Dev Engineering College, Ludhiana concluded the neeklong series of lectures and hands-on practice sessions on Quality Improvement Programme (OIP) Short Term Course (STC) on title "AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing". This STC was sponsored by QIP Centre of the Institute. The valediction programme of this course was organized in the consultancy seminar hall of the campus on Friday. This programme was organized with the objective of sharing recent developments in the areas of Artificial Intelligence, Big Data and High Performance Computing with practical demonstration. 17 resource persons of renowned institutions of the region had shared their views and further research areas among the participants.

Dr. Sarabjot Singh Anand from Sabudh Foundation, New Delhi was invited as chief guest for the valediction of this programme. In his speech, chief guest emphasised that awareness of technology tronds in AI and HPC is the need of the hour, but at same time security of information transferred is important area of concern. He further elaborated that role of hidden variables in machine learning.

In the whole five day programme the academicians, software professional and researchers were invited to deliver the expert talks during the course. During this programme, Dr. Shashi Shekhar Jha from HT Ropar claborated the case study of Demands and Supplies Prediction for Taxis in Singapore. Dr. Sukhwinder Singh, Director, Computer Centre at Panjab University, Chandigarh pointed out various innovative ideas implemented at the industry and government level for the concern of Artificial Intelligence and High Performance Computing. Dr. Kuldeep Komar from Dr. B.R.Ambedkar National Institute of Technology, Jalandhar discussed the topics of Practical Approach to Research Methodologies and Industry-Academic Research Trends in Computing. He demonstrated the contents by sharing live examples.

Er. Navjot Singh from AlertEnterprise Chandigarh shared his views on Disruptive Applications of AI in Various Industries with Use Cases and Scientific Solutions. He elaborated the Alignment of Academic and Research in Modern Day AI based Disruption and Opportunity for Application Oriented Research Activities. Dr. Pankaj Bhambri from GNDEC Ludhiana presented the role and need of High Performance Computing with evolving research trends in bioinformatics. Mr. Vipin Gupta from U.Net Solution organized the hands on session on Implementation of Docker Cluster and Software Defined Networking. Dr. Nirnal Kaur from UIET Panjab University Chandigarh and Er. Amit Deoger from NITTTR Chandigarh delivered their expert talks on Need cum Lechniques for Energy Aware Scheduling and Implementation of Load Balancer for Big Data Applications, respectively. Er. Sandeep Kumar Singla shared his practical exposure to Big Data Analytics using the R Lab.

Dr. Pankaj Bhambri, the course coordinator of this programme conveyed that this course was organized with the objectives to expose the faculty/ research scholars/ industry based persons in emerging technologies. This programme provided the practical foundation level training to enable the audience for insight into digital disruption and accelerating machine learning on Al through performance libraries and platforms. Dr. Bhambri informed that the course contents for this STC included Al, Bigdata & HPC aligned applications; Exposure to Analysis; Interpretation of Data; Al, Big Data & HPC Research Methods; Exploration of Contemporary Research in Teaching Learning; Real Life Implementation Scenarios; Case Studies and Lab Sessions.

400

Dr. Kiran Jyoti, HOD of IT Dept. and faculty coordinator of this course presented the summary & feedback report of this short term course at valediction programme. She shared the roles of social media, mobility, analytics and cloud computing. Dr. Sehijpal Singh, Principal of GNDEC mentioned the benefits as well as wastage of resources due to updation in technology every day. He discussed the significance of these types of courses for faculties as well as researchers and congratulated the course coordinators for organizing this STC. Participation Certificates were issued to 41 participants, which came from different regions of the country to attend this STC.

Proper BHAMERS

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HOD(I1)

QIP SHORT TERM COURSE

ON

Al, Big Data and HPC Aligned Applications - A Modern Approach of Computing (31st December 2018 - 04th January 2019)

		(3151 Dec	cember 2018 - 04th J	anuary 2019)			
Dov. 4: 24at Dosar	mber 2019 (Mender)		SCHEDULE				
	nber, 2018 (Monday) 		12:30pm-				
09:30am Po<i>s</i>:stratien	10:30am-11:00am	11:00am-12:30pm	01:15pm	01:15pm-02:45pm	02:45pm-03:00pm	03:00pm-04:30pm	
10:30am	Tea	Session - 1.1	Lunch	Session - 1.2	Tea	Session - 1.3	
Chief Guest/ Key Note Speaker	Dr. Sukhwinder Sing Panja	h ab University, Chandi	garh				
Session - 1.1	Dr. Kuldeep Kumar Dr. B.R.Ambedkar N	IT Jalandhar	Practical Approach	to Research Method	lologies		
Session - 1.2	Dr. Kuldeep Kumar Dr. B.R.Ambedkar N		Industry-Academic	Research Trends in	Computing		
Session - 1.3	Dr. Kiran Jyoti GNDEC, Ludhiana	ir, calariariar	Overview of Big Da	ata			
Session - 1.4 (04.30-05.00pm)	Discussion cum Fee	dback Session so as	to incorporate corre	ective measures/ sug	gesion for this Short	Term Course	
Day 2: 01st Janua	ry, 2019 (Tuesday)						
09:00am-10:30am		10:45am-12:15pm	12:15pm-	01:00pm-02:30pm	02:30pm-02:45pm	02:45pm-04:15pm	
Session - 2.1	Tea	Session - 2.2	Lunch	Session - 2.3	Tea	Session - 2.4	
Session - 2.1	Er. Sandeep Kumar GNDEC, Ludhia		Big Data Analytics	using R			
Session - 2.2	Dr. Nirmal Kaur UIET, Panjab I	Jniversity	Energy Aware Sch	eduling -Need and Te	echnique		
Session - 2.3	Er. Navjot Singh AlertEnterprise, Cha	ndigarh	Disruptive Applicat Solutions	ions of AI in Various	Industries with Use (Cases and Scientific	
Session - 2.4	Er. Navjot Singh AlertEnterprise, Char		Alignment of Academic and Research in Modern Day Al based Disruption and Opportunity for Application Oriented Research Activities				
Day 3: 02nd Janua	ary, 2019 (Wednesda						
09:00am-10:30am		10:45am-12:15pm	12:15pm-	01:00pm-02:30pm	02:30pm-02:45pm	02:45pm-04:15pm	
Session - 3.1	Tea	Session - 3.2	Lunch	Session - 3.3	Tea	Session - 3.4	
Session - 3.1	Dr. Pankaj Bhambri GNDEC, Ludhiana		Role in HPC in Bio	informatics			
Session - 3.2	Er. Vipin Gupta U.Net Solutions, Mo	ga	Implementation of	Docker Cluster			
Session - 3.3	Er. Vipin Gupta U.Net Solutions, Mo	ga	Implementation of Software Defined Networking				
Session - 3.4	Dr. Amit Kamra GNDEC, Ludhiana		Impact of Big Data	on Industrial Environ	ment - A Case Study	/	
Day 4: 03rd Janua	ary, 2019 (Thursday)						
09:00am-10:30am		10:45am-12:15pm	12:15pm-	01:00pm-02:30pm	02:30pm-02:45pm	02:45pm-04:15pm	
Session - 4.1	Tea	Session - 4.2	Lunch	Session - 4.3	Tea	Session - 4.4	
Session - 4.1	Er. Jagdeep Singh		Practical Session of	on Python and Other	Tools		
Session - 4.2	Er. Amit Deoger NITTTR, Chandigarh	1	Implementation of Load Balancer for Big Data Applications				
Session - 4.3	Dr. H.S. Rai GNDEC, Ludhiana	1	Tools for Al and Big Data				
Session - 4.4	Dr. Shashi Shekhar . IIT, Ropar	Jha,	Demands and Supplies Prediction for Taxis in Singapore				
Day 5: 04th Janua	ry, 2019 (Friday)						
09:00am-10:30am	10:30am-10:45am	10:45am-12:15pm	12:15pm-	01:00pm-02:30pm	02:30pm-02:45pm	02:45pm-04:15pm	
Session - 5.1	Tea	Session - 5.2	Lunch	Session - 5.3	Tea	Session - 5.4	
Session - 5.1	Dr. Pradeep Jaswal GNDEC	, Ludhiana	Problem Solving ar	nd Reasoning throug	h Artificial Intelligenc	e	
Session - 5.2	Dr. Pankaj Bhambri GNDEC, Ludhiana		Various Application	ns of High Performan	ce Computing and A	rtificial Intelligence	
Session - 5.3	Dr. Sarabjot Singh A Sabudh I	nand Foundation, New	The Role of Hidder	n Variables in Machir	e Learning		
Session - 5.4	Dr. Sarabjot Singh A		Concerns of Neural Networks and Artificial Intelligence				
04:15pm-05:00pm	Summary Report, Fe		ion Ceremony				
Venues	1		·				
Sessions	Consultancy Semina	r Hall, Testing and C	onsultancy Cell, Gu	ru Nanak Dev Engine	eering College, Ludh	iana	
Lunch and Tea				Dev Engineering Co			

Attendance Sheet (QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 - Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

S. No.	Mr./Ms./ Participant value		Designation	Affiliation	Signature with Date
1	Dr.	Amit Kamra	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Asallielle
2	Er.	Birpal Kaur	Assistant Professor	GNA University, Phagwara	
3	Er.	Dinesh Anand	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Agenel
4	Er.	Divya Sharma	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Shugherm
5	Er.	Gitanjali	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	- Aug for
6	Er.	Gurjit Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	(The state of the
7	Er.	Gurjot Singh	Assistant Professor	Malwa College, Samrala	Guynser
8	Er.	Hanit Karwal	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Ch
9	Er.	Harjot Kaur Gill	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	(No.
10	Er.	Harpeet Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Ha
11	Er.	Harsimran Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Hous Environ fame
12		Jagdeep Singh	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	B
13		Jasmine Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	200
14	-	K.S. Mann	Professor	Guru Nanak Dev Engineering College, Ludhiana	for

Attendance Sheet (QIP Short Term Course on Al, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 – Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

S. No.	Mr./ Ms./ Participant Isance		Designation	Affiliation	Signature with Date
15	Dr.	Kamaljit Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	K-60
16	Er.	Kanwalpreet Singh Sidhu	Assistant Professor	Bhutta College of Engineering and Technology, Ludhiana	0.11
17	Er.	Kapil Kumar	Assistant Professor	Lingaya's Vidyapeeth, Faridabad	Karil Kump 10/18
18	Er.	Karamjit Singh Gill	Assistant Professor	Bhutta College of Engineering and Technology, Ludhiana	
19	-	Karanbir Singh	CEO	Up2Mark Technologies Pvt. Ltd.	Karantan
20	Dr.	Kiran Jyoti	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	16
21	Er.	Mandeep Kaur	Assistant Professor	Khalsa College for Women, Ludhiana	may 1418
22		Mandeep Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Nauprestaus
23		Navpreet Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	
24	THE STATE OF THE S	Nidhi Sharma	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Malypone.
25		Nitish Sharma	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Pant
26		Pankaj Bhambri	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	
20		Parminder Kaur	Assistant Professor	Khalsa College for Women, Ludhiana	Par 31/12/18
25	on a management	Prabhjot Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	grusyol.

Attendance Sheet (QIP Short Term Course on Al, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 - Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

			Registration for	the Course on Dateu 31.12.2010	
S. No.	Mr./Ms./ Participant Name		Designation	Affiliation	Signature with Date
29	Er.	Prabhjot Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Nobyste
30	Mr.	Puneet Singh	Director	Up2Mark Technologies Pvt. Ltd.	Princet Sive
31	Er.	Rajni Puri	Assistant Professor	Gagraswala Gura Nanak Institute of Management & Technology, Ludhima	Lafrie
32	Er.	Ravinder Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	
33	Er.	Rupinder Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	after
34	Er.	Sachin Bagga	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	te
35	Er.	Samreet Kaur Gosal	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	90
36	Er.	Sandeep Kumar Singla	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	10 31-12.18
37	Er.	Sartinderpal Singh	AP (CP)/ CP, Computer Centre	Gura Nanak Dev Engineering College, Ludhiana	
38	Er.	Shifa Grover	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Shifa Guour
39	Er.	Shivani Arora Abrol	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	8
40	1,100	Sidharth Jain	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	2
41	Dr.	Sumeet Kaur Sehra	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	48
42		Sunanda Lal	Assistant Professor	Gujranwala Guru Nanak Institute of Management & Technology, Ludhian	1

Attendance Sheet (QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 – Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

S. No.	Dr./ Er./ Mr./ Ms./ Mrs.	Participant Name	Designation	Affiliation	Signature with Date
43	Er.		Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	-
44	Er.	Swaranjit Singh	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Swamanutsingn-
45	Ms.	Taranpreet Kaur	Assistant Professor	Mata Gujri College, Fatehgarh Sahib	Monaghatis
46	Dr.	V.J. Rai	Principal	Bhutta College of Engineering and Technology, Ludhiana	
47	Dr.	Vikas Singla	Assistant Professor	Malout Institute of Management & Information Technology, Malout	8
48	Er.	Yadvir Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Agrapa

Attendance Sheet

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 31st December 2018 (Monday)

Venue: Consultancy Seminar Hall, Guru Nanak Dev Engineering College Ludhiana

S.No.		Name of the Participant	Designation	Day 1 (Signatures)		
				Session-1.1 (11-12:30pm)	Session-1.2 (1:15-2:45pm)	Session-1.3 (3-4:30pm)
1	Dr.	Amit Kamra	Assistant Professor	A	, A	A
-2	Er.	Birpal Kaur	Assistant Professor	6-	a la	O-
3	Er.	Dinesh Anand	Assistant Professor	750	1	70-
4	Er.	Divya Sharma	Research Scholar	Diya sugar	Dicing ham	Suga guar
5	Er.	Gitanjali	Research Scholar	Ca Zamyali'	Til male	Sample Land
6	Er.	Gurjit Kaur	Assistant Professor	17	lan	b~ '
7	Er.	Gurjot Singh	Assistant Professor	and a	982l	561
8	Er.	Hanit Karwal	Assistant Professor	1ch	100	(Qu
9	Er.	Harjot Kaur Gill	Assistant Professor	Tom.	ge-	the
10	Er.	Harpeet Kaur	Assistant Professor	applied Kar	Harpiat Kon	Morphut Ke
11	Er.	Harsimran Kaur	Research Scholar	Hansimmon tous	Housington taus	Housinson Jaux
12	Er.	Jagdeep Singh	Assistant Professor	The	7	The same
13	Er.	Jasmine Kaur	Assistant Professor	Shows	, dan	, for
14	Dr.	K.S. Mann	Professor	St	1	
15	Dr.	Kamaljit Kaur	Assistant Professor	4-18	weil .	1CE8
16	Er.	Kanwalpreet Singh Sidhu	Assistant Professor			1
17	Er.	Kapil Kumar	Assistant Professor	Knight Kumar	Kapil Kumar	Lapil Lumes

Attendance Sheet

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 31st December 2018 (Monday)

Venue: Consultancy Seminar Hall, Guru Nanak Dev Engineering College Ludhiana

S.No.		Name of the Participant	Designation	Day 1 (Signatures)		
				Session-1.1 (11-12:30pm)	Session-1.2 (1:15-2:45pm)	Session-1.3 (3-4:30pm)
18	Er.	Karamjit Singh Gill	Assistant Professor	57-1-1		
19	Mr.	Karanbir Singh	CEO	Karanghit	Love Fright	Karasti
20	Dr.	Kiran Jyoti	Assistant Professor	W/	10/	102
21	Er.	Mandeep Kaur	Assistant Professor	NY.	Wr.	MIK , ()
22	Er.	Mandeep Kaur	Research Scholar	Mandley	Mandeet	1) andel
23	Er.	Navpreet Kaur	Research Scholar	Okam	Chaul	Down.
24	Er.	Nidhi Sharma	Assistant Professor	wolf brame,	VSig Barn	of gold Source
25	Er.	Nitish Sharma	Research Scholar			All off.
26	Dr.	Pankaj Bhambri	Assistant Professor	- Takes	- Com	- Tarley
27	Ms.	Parminder Kaur	Assistant Professor	A 02	0	100-
28	Er.	Prabhjot Kaur	Research Scholar	1	1/	9
29	Er.	Prabhjot Kaur	Assistant Professor	grathiotica	Preblist K	Problystken
30	Mr.	Puneet Singh	Director	Puncet Star	June Stur	Puncel 81h
31	Er.	Rajni Puri	Assistant Professor	- 02	49/	8
32	Er.	Ravinder Kaur	Assistant Professor	-	Λ	
33	Er.	Rupinder Kaur	Assistant Professor	der	Afra.	JA-12
34	Er.	Sachin Bagga	Assistant Professor	Ju-	12	the
35	Er.	Samreet Kaur Gosal	Assistant Professor			

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing Date: 31st December 2018 (Monday)

S.No.		Name of the Participant	Designation		Day 1 (Signatures	
				Session-1.1 (11-12:30pm)	Session-1,2/(1:15-2:45pm)	Session-1.3 (3-4:30pm)
36	Er.	Sandeep Kumar Singla	Assistant Professor	100	No	184
37	Er.	Sartinderpal Singh	AP (CPV CP, Computer Centre	(lath_	Cholis	Jalas
38	Er.	Shifa Grover	Research Scholar	Shop Grown	Elita burun	Strfa Gerocele.
39	Er.	Shivani Arora Abrol	Assistant Professor	**	8	8
40	Er.	Sidharth Jain	Assistant Professor	42	59_	7
41	Dr.	Sumeet Kaur Sehra	Assistant Professor	No.	4	For
42	Ms.	Sunanda Lal	Assistant Professor	Stall	Mall	glaid
43	Er.	Sunil Aggarwal	Research Scholar		15.6	-
44	Er.	Swaranjit Singh	Research Scholar	Successfult Singer	Swamanut singh	Swammitsingh
45	Ms.	Taranpreet Kaur	Assistant Professor	House	Mount	Monard
46	Dr.	V.J. Rai	Principal		^	
47	Dr.	Vikas Singla	Assistant Professor	952	82	842
48	Er.	Yadvir Kaur	Assistant Professor	Yodan	Yadvid	409-11-

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 01st January 2019 (Tuesday)

S.No.		Name of the Participant	Designation		Day 2 (S	Signatures)	
				Session-2.1 (09.00 ₃ 10:30am)	Session-2.2 (10.45-12:15pm)	Session-2.3 (01.80-02:30pm)	Session-2.4 (02.45-
1	Dr.	Amit Kamra	Assistant Professor	19	4A	ah	4
2	Er.	Birpal Kaur	Assistant Professor	6-	6	£ .	Bb.
3	Er.	Dinesh Anand	Assistant Professor	70-	-57	4	aly_
4	Er.	Divya Sharma	Research Scholar	Stug Branns	- Ofrjakhuna	Ouge Shaw	Orga stains
5	En	Gitanjali	Research Scholar	- July July	- Harjah	Hanj-	Marjete
6	Er.	Gurjit Kaur	Assistant Professor	Jan 2	april	Gran	Real
7	Er.	Gurjot Singh	Assistant Professor	and	/hall	101	161
8	Er.	Hanit Kaur	Assistant Professor	W	Ne l	w	112
9	Er.	Harjot Kaur Gill	Assistant Professor	at	Total	Bel	ALC:
10	Er.	Harpeet Kaur	Assistant Professor	Manphert Key	Howhlet he	Harblet 4.	Horbret 162
11	Er.	Harsimran Kaur	Research Scholar	Daystowan Love	Housenvan free	Houseman fau	Houseman Jass
12	Er.	Jagdeep Singh	Assistant Professor	12	15	1	15
13	Er.	Jasmine Kaur	Assistant Professor	Bar	SEAS.	FEE	60
14	Dr.	K.S. Mann	Professor	a.		W	1
15	Dr.	Kamaljit Kaur	Assistant Professor	1048	1-016	VX18	44
16	Er.	Kapil Kumar	Assistant Professor	Karpet Kumer	Karil Kumar	w. Warner	Harrist Lines

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing Date: 01st January 2019 (Tuesday)

S.No.		Name of the Participant	Designation		Day 2 (S	ignatures)	
				Session-2.1 (09.00-10:30am)	Session-2.2 (10.45-12:15pm)	Session-2.3 (01.00-02:30pm)	Session-2.4 (02.45 04:15pm)
17	Mr.	Karanbir Singh	CEO	Konsteller	Law Sigh	Kritiger	Harelinger
18	Dr.	Kiran Jyoti	Assistant Professor	0 /	10/	12	4
19	Er.	Mandeep Kaur	Assistant Professor	MK	MY	MK	MK
20	Er.	Mandeep Kaur	Research Scholar	Mor	Blin	Peter	- Mar-
21	Er.	Navpreet Kaur	Research Scholar	Chair	Pros	Police	Color
22	Er.	Nidhi Sharma	Assistant Professor	of white	Landeline	willen	June Dong
23	Dr.	Pankaj Bhambri	Assistant Professor	-Far-	- Fry	- Car	1
24	Ms.	Parminder Kaur	Assistant Professor	00	-0-	0	0
25	Er.	Prabhjot Kaur	Research Scholar	Keleyer -	0 80	The state of the s	4
26	Er.	Prabhjot Kaur	Assistant Professor	Phabapter	diabletin	Daabhah	Inellede
27	Mr.	Punect Singh	Director	Vancet Cyc	Yunect 814	1 Council ale	Yours Bull
28	Er.	Rajni Puri	Assistant Professor	Al.	182	, 9	A
29	Er.	Rupinder Kaur	Assistant Professor	At v	atk.	ATK	detk
30	Er.	Sachin Bagga	Assistant Professor	1	0	1 4	hal
31	Er.	Sandeep Kumar Singla	Assistant Professor	1 18	1	1/00	Joseph Land
32	Er.	Sartinderpal Singh	AP (CP)/ CP, Computer Centre	-62	/ago	The second second	1-6
33	Er.	Shifa Grover	Research Scholar	Ship Grown	Shifa Grans	Chip Greeny	Shite Gran

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 01st January 2019 (Tuesday)

S.No.		Name of the Participant	Designation	Day 2 (Signatures)					
				Session-2.1 (09.00-10:30am)	Session-2.2 (10.45-12:15pm)	Session-2.3 (01.00-02:30pm)	Session-2.4 (02.45- 04:15pm)		
34	Er.	Shivani Arora Abrol	Assistant Professor		A	-8			
35	Er.	Sidharth Jain	Assistant Professor	22	V	8	45		
36	Dr.	Sumeet Kaur Sehra	Assistant Professor	The state of the s	R	8	-		
37	Ms.	Sunanda Lal	Assistant Professor	grane	Stall	100	Well		
38	Er.	Swaranjit Singh	Research Scholar	Survage	duett	Sureve.	Swarter		
39	Ms.	Taranpreet Kaur	Assistant Professor	Freed	Joseph -	Marray	Harry		
40	Dr.	Vikas Singla	Assistant Professor	932	CAUS -	Chr. 2	(2)		
41	Er.	Yadvir Kaur	Assistant Professor		Yadv	Youth	450		

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 02nd January 2019 (Wednesday)

S.No.		Name of the Participant	Designation		Day 3 (Si	gnatures)	
				Session-3.1 (09.00-10:30am)	Session-3.2 (10.45-12:15pm)	Session-3.3 (01.00-02:30pm)	Session-3.4 (02.45- 04:15pm)
1	Dr.	Amit Kamra	Assistant Professor	A	Are	As	A
2	Er.	Birpal Kaur	Assistant Professor	*		9	A CONTRACTOR OF THE CONTRACTOR
3	Er.	Dinesh Anand	Assistant Professor	a	0		4
4	Er.	Divya Sharma	Research Scholar	* John James	Home	Assime	Danne
5	Er.	Gitanjali	Research Scholar	Ta Trypt -	- repropels	College .	The state of
6	Er.	Gurjit Kaur	Assistant Professor	lyn	egens	lyn	year
7	Er.	Gurjot Singh	Assistant Professor	apri	Stat	gogul	JEN-
8	Er.	Hanit Kaur	Assistant Professor	100		Ido	A GOL
9	Er.	Harjot Kaur Gill	Assistant Professor	(A)	(4004)	400	(AUE)
10	Er.	Harpreet Kaur	Assistant Professor	He	12	YP2	His
11	Er.	Harsimran Kaur	Research Scholar	Dear	Alex-	(Ha-	Flor
12	Er.	Jagdeep Singh	Assistant Professor	Tol	L	The	J&-
13	Er.	Jasmine Kaur	Assistant Professor	- Sam	Stan	Kup	Skape
14	Dr.		Professor	To M		W.	1/2
15	Dr.	Kamaljit Kaur	Assistant Professor	1 450	HEE	1-48	191
16	Er.	Kapil Kumar	Assistant Professor	Karpi Lumar	Kapal Kromer	Varial Lumas	Kapal Kumur

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing Date: 02nd January 2019 (Wednesday)

S.No.		Name of the Participant	Designation		Day 3 (8	Signatures)	
				Session-3.1 (09.00-10:30am)	Session-3.2 (10.45-12:15pm)	Session-3.3 (01.00-02:30pm)	Session-3.4 (02.45- 04:15pm)
17	Mr.	Karanbir Singh	CEO	Knewge	Kwalter-	Karahe	- Koleje
18	Dr.	Kiran Jyoti	Assistant Professor	D.	11/	10	ul
19	Er.	Mandeep Kaur	Assistant Professor	MX	MK	MK	MK
20	Er.	Mandeep Kaur	Research Scholar	W	N	A	- N
21	Er.	Navpreet Kaur	Research Scholar	Okam	Pkaur	Plan	Chaus
22	Er.	Nidhi Sharma	Assistant Professor	Delither	Vadiahas	VIHARAS	Reguestane
23	Dr.	Pankaj Bhambri	Assistant Professor	1230	Lary	Targree	- STORY OF THE STO
24	Ms.	Parminder Kaur	Assistant Professor	0			
25	Er.	Prabhjot Kaur	Research Scholar	San	Plan	Han.	Pen
26	Er.	Prabhjot Kaur	Assistant Professor	Teabhal	Madesta	1 aldgett	Oreblyck
27	Mr.	Puneet Singh	Director	Pulcet di	Kuntet Ofi	Puncoti.	Puntect Sture
28	Er.	Rajni Puri	Assistant Professor	B-	Ø	E) W.	D -
29	Er.	Rupinder Kaur	Assistant Professor	12	121	1	19
30	Er.	Sachin Bagga	Assistant Professor	Ju	41	0	Alex
31	Er.	Sandeep Kumar Singla	Assistant Professor	An	J.	18	24
32	Er.	144 TV CASC 1800 CO	AP (CP)/ CP, Computer Centre	A	&	10/2	184
33	Er.	Shifa Grover		Shifer Gurer	Stufe brown	Alufa Guom	Streto brown.

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 02nd January 2019 (Wednesday)

S.No.		Name of the Participant	Designation		Day 3 (S	Signatures)	NC -
				Session-3.1 (09.00-10:30am)	Session-3.2 (10.45-12:15pm)	Session-3.3 (01.00-02:30pm)	Session-3.4 (02.45- 04:15pm)
34	Er.	Shivani Arora Abrol	Assistant Professor	70	9	B_	B
35	Er.	Sidharth Jain	Assistant Professor	1	9	4	4
36	Dr.	Sumeet Kaur Sehra	Assistant Professor	5	8	5	6
37	Ms.	Sunanda Lal	Assistant Professor	Mell	flell	Dell	Story-
38	Er.	Swaranjit Singh	Research Scholar	duarte	Surena	Suran	Same
39	Ms.	Taranpreet Kaur	Assistant Professor	of source	Moreum	Harring	Martin
40	Dr.	Vikas Singla	Assistant Professor	952	982	82	82
41	Er.	Yadvir Kaur	Assistant Professor	tale.	1/4	4-dan	Yale

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 03rd January 2019 (Thursday)

S.No.		Name of the Participant	Designation		Day 4 (S	Signatures)	
				Session-4.1 (09.00-10:30am)	Session-4.2 (10.45-12:15pm)	Session-4.3 (01,00-02:30pm)	Session-4.4 (02.45-04:15pm)
1	Dr.	Amit Kamra	Assistant Professor	fr	A	1	A
2	Er.	Birpal Kaur	Assistant Professor	-	1	<u></u>	9
3	Er.	Dinesh Anand	Assistant Professor	40	3		A
4	Er.	Divya Sharma	Research Scholar	Thy marma	Dily har	Duglam.	Dley ar
5	Er.	Gitanjali	Research Scholar	the state of	- Julyali -	الماليا	- Charles
6	Er.	Gurjit Kaur	Assistant Professor	Gens	Mary	guns	Marie
7	Er.	Gurjot Singh	Assistant Professor	GINL	agel	4 Fal	481
8	Er.	Hanit Kaur	Assistant Professor	USA-	Osh.		0
9	Er.	Harjot Kaur Gill	Assistant Professor	fre	The	(40-5	Her
10	Er.	Harpreet Kaur	Assistant Professor	Hh	HE	H2	
11	Er.	Harsimran Kaur	Research Scholar	About	Marie	(Manie	Ham
12	Er.	Jagdeep Singh	Assistant Professor	*	1	1	1
13	Er.	Jasmine Kaur	Assistant Professor	Okem 1	Skew	akan	Maur
14	Dr.	K.S. Mann	Professor	A	4	1	1
15	Dr.	Kamaljit Kaur	Assistant Professor		res	rgt	1-97
16.	Er.	Kapil Kumar	Assistant Professor	Wash & women	1 - 1 Know	Harri Kumar	4 - 1 Kumon

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing Date: 03rd January 2019 (Thursday)

S.No.		Name of the Participant	Designation		Day 4 (Signatures)	
				Session-4.1	Session-4.2	Session-4.3	Session-4.4
18	Dr.	Kiran Jyoti	Assistant Professor	10/	0	10	1V
19	Er.	Mandeep Kaur	Assistant Professor	MK	MK	MK	NIK
20	Er.	Mandeep Kaur	Research Scholar	m'k	MŁ.	Mk.	MY.
21	Er.	Navpreet Kaur	Research Scholar	Okaus	Okens	Okaus	Olan
22	Er.	Nidhi Sharma	Assistant Professor	Nidetang	K) ahyanna	Hiderman	Halletiann
23	Dr.	Pankaj Bhambri	Assistant Professor	- Farmy	- Calles	- FORW	- Faller
24	Ms.	Parminder Kaur	Assistant Professor	a (0)	N.O.	QQ.	Olev /
25	Er.	Prabhjot Kaur	Research Scholar	9/	9/	N	N
26	Er.	Prabhjot Kaur	Assistant Professor	Prabrytitanz	Preservotaur	Panblyoteaux	gracejskaus
27	Mr.	Puneet Singh	Director	Paret 8c	funert go	Functsi.	hunt Sil
28	Er.	Rajni Puri	Assistant Professor	2	, %	A	18
29	Er.	Rupinder Kaur	Assistant Professor	der	offe	Let x	offe
30	Er.	Sachin Bagga	Assistant Professor	00 to	012	0104	July John
31	Er.	Sandeep Kumar Singla	Assistant Professor	100	X	NT.	100
32	Er.	Sartinderpal Singh	AP (CP)/ CP, Computer Centre	1	13	19	1
33	Er.	Shifa Grover	Research Scholar	Sula Guora	Anto Gune	Infa Green	Shipa Ge

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing Date: 03rd January 2019 (Thursday)

S.No.		Name of the Participant	Designation	Day 4 (Signatures)					
				Session-4.1	Session-4.2	Session-4.3	Session-4.4		
35	Er.	Sidharth Jain	Assistant Professor	82-	87_	9	182		
36	Dr.	Sumeet Kaur Sehra	Assistant Professor	A.	8	8	A		
37	Ms.	Sunanda Lal	Assistant Professor	Stoll	glall	Stroll	glatt		
38	Er.	Swaranjit Singh	Research Scholar	Sware	Surve	dustre	Same		
39	Ms.	Taranpreet Kaur	Assistant Professor	Mount	Morrison	Morrist	Morental		
40	Dr.	Vikas Singla	Assistant Professor	962	Gh-	952	AL		
41	Er.	Yadvir Kaur	Assistant Professor	4J	4 de	Yal	Yell		
012_	NLE -	Shi vani A Abrol	A-P	3	2	9	B		

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing
Date: 04th January 2019 (Friday)

S.No.		Name of the Participant	Designation		Day 5 (S	ignatures)	
				Session-5.1 (09.00-10:30am)	Session-5.2 (10.45-12:15pm)	Session-5.3 (01.00-02:30pm)	Session-5.4 (02.45-04:15pm)
1	Dr.	Amit Kamra	Assistant Professor	A	A	A	A
2	Er.	Birpal Kaur	Assistant Professor	8	9	1	B
3	Er.	Dinesh Anand	Assistant Professor	2			
4	Er.	Divya Sharma	Research Scholar	Dinyatrama	Diwastani	Siryastrong	Sirgastern
5	Er.	Gitanjali	Research Scholar	- Ediperior	· bounds		STI LINE
6	Er.	Gurjit Kaur	Assistant Professor	gram	gkain	gan	gan
7	Er.	Gurjot Singh	Assistant Professor	650	61	bor	Sty
8	Er.	Hanit Kaur	Assistant Professor		M	(Mr.	
9	Er.	Harjot Kaur Gill	Assistant Professor	AND	- And	- floor	(R)
10	Er.	Harpreet Kaur	Assistant Professor	His	He	14	It
11	Er.	Harsimran Kaur	Research Scholar	Want	House	Expus	Hous
12	Er.	Jagdeep Singh	Assistant Professor	1	J.	The same	26
13	Er.	Jasmine Kaur	Assistant Professor	plan	Jean	Jean	Kaur
14	Dr.	K.S. Mann	Professor	W.	W	4	
15	Dr.	Kamaljit Kaur	Assistant Professor	4-48	1-58	X-48	Kgy
16	Er.	Kapil Kumar	Assistant Professor	11 - 1 Vumar	1 Xumar	w = 1 Duman	11 in Kumar

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing Date: 04th January 2019 (Friday)

S.No.		Name of the Participant	Designation	Day 5 (Signatures)					
				Session-5.1	Session-5.2	Session-5.3	Session-5.4		
18	Dr.	Kiran Jyoti	Assistant Professor	(0)	10	4	9_		
19	Er.	Mandeep Kaur	Assistant Professor	MK	MK	MK.	mil ,		
20	Er.	Mandeep Kaur	Research Scholar	MA .	On-	MA			
21	Er.	Navpreet Kaur	Research Scholar	Olam	Chaus	Plant	Charles		
22	Er.	Nidhi Sharma	Assistant Professor	Nilligrama	Malighamer	Wheiham	Meligrania		
23	Dr.	Pankaj Bhambri	Assistant Professor	der	-FRET	AND THE REST	A.		
24	Ms.	Panninder Kaur	Assistant Professor	0	(AL	4			
25	Er.	Prabhjot Kaur	Research Scholar	le	2	X /	k.		
26	Er.	Prabhjot Kaur	Assistant Professor	Practigot Kaun	Prosegotkau	Prabeyotkau	Praseystkam		
27	Mr.	Puncet Singh	Director	Primart 81	Queet Su	Juneto	Concerts		
28	Er.	Rajni Puri	Assistant Professor		R	8	-82		
29	Er.	Rupinder Kaur	Assistant Professor	det	In	111-	H		
30	Er.	Sachin Bagga	Assistant Professor	in In	0.77	Jac	200		
31	Er.	Sandeep Kumar Singla	Assistant Professor	1001	189	No.	X		
32	Er.	Sartinderpal Singh	AP (CP)/ CP, Computer Centre	1	12	19	1-1-		
33	Er.	Shifa Grover	Research Scholar	Rife belown	Anfa buous	Strife trever	Shifa treown		

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing Date: 04th January 2019 (Friday)

S.No.		Name of the Participant	Designation		Day 5 (Signatures)	
				Session-5.1	Session-5.2	Session-5.3	Session-5.4
35	Er.	Sidharth Jain	Assistant Professor	92	2	9_	81_
36	Dr.	Sumeet Kaur Sehra	Assistant Professor	B	8	6	K
37	Ms.	Sunanda Lal	Assistant Professor	Stall	Stell	blett	Stall
38	Er.	Swaranjit Singh	Research Scholar	Sugar	Sugarate	Summe	Summ
39	Ms.	Taranpreet Kaur	Assistant Professor	Money	Moseum	Monute	Mornin
40	Dr.	Vikas Singla	Assistant Professor	92	92	902	85
41	Er.	Yadvir Kaur	Assistant Professor	Yatur	Yate	44	40

Cosolidated Attendance Sheet (QIP-STC)

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing 31st December 2018 (Monday) - 04th January 2019 (Friday)

Venue: Consultancy Seminar Hall, Guru Nanak Dev Engineering College Ludhiana

S.No.		Name of the Participant	Designation					
				31.12.2018	1.1.2019	2.1.2019	3.1.2019	4.1.2019
X	Dr.	Amit Kamra	Assistant Professor	A	A	A	A	A
2	Er.	Birpal Kaur	Assistant Professor	8	1	8_	-	9
3	Er.	Dinesh Anand	Assistant Professor	- TA-	- A&	all	A	
4	Er.	Divya Sharma	Research Scholar	Hirashana	Lingelano	Dryaghana	Dirigastrai	Silyetha
3	Er.	Gitanjali	Research Scholar	= Tals	المرسلة	Catal	Tales!	Cally
6	Er.	Gurjit Kaur	Assistant Professor	granz	lykaure	ejkause	exam	Marz
21	Er.	Gurjot Singh	Assistant Professor	ask	45-12	hat	600	for-
8	Er.	Hanit Kaur	Assistant Professor			01	W.	1
(9)	Er.	Harjot Kaur Gill	Assistant Professor	Ald	AVI	(R)	Cal	The
10	Er.	Harpreet Kaur	Assistant Professor	An	HA	th	TK	He
سلا	Er.	Harsimran Kaur	Research Scholar	Agu	Plans	Have	House	(Hay
12	Er.	Jagdeep Singh	Assistant Professor	2	26	IL	K	J. T.
سهد	Er.	Jasmine Kaur	Assistant Professor	- fram	Trang	Though	Jegun	Train
14	Dr.	K.S. Mann	Professor	A	V.	V	K	14
15	Dr.	Kamaljit Kaur	Assistant Professor	x 681	KAT	KGF	X-98	X-58
16	Er.	Kapil Kumar	Assistant Professor	V = L Xumer	V. Vimos	Varial Kum	stand w	Wind ofen

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Cosolidated Attendance Sheet (QIP-STC)

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing 31st December 2018 (Monday) - 04th January 2019 (Friday)

S.No.		Name of the Participant	Designation					
11	*			31.12.2018	1.1.2019	2.1.2019	3.1.2019	4.1.2019
10	Dr.	Kiran Jyoti	Assistant Professor	W/	W/	12/	R	9
19	Er.	Mandeep Kaur	Assistant Professor	MK	MK	MK	MK	MK
-20	Er.	Mandeep Kaur	Research Scholar	D.	A	18	R	180
21	Er.	Navpreet Kaur	Research Scholar	Chause	Chaus	Chain	Planz	Okam
22	Er.	Nidhi Sharma	Assistant Professor	Widhignanna	Nidhishauma	Musicanne	Whiscom	Marghanne
23	Dr.	- Pankaj Bhambri	Assistant Professor	Ac	Sol	Alexand .	FF.	for-
24	Ms.	Parminder Kaur	Assistant Professor		0	0	(DL	Q.
25-	Er.	Prabhjot Kaur	Research Scholar	B	6	g.	8	R
26	Er.	Prabhjot Kaur	Assistant Professor	Probujet Kam	Problystkeur		Problyst Kaun	Prabnjutka
27	Mr.	Puneet Singh	Director	lunch of	fusets	Planes &	(west of	Levest Xx
28	Er.	Rajni Puri	Assistant Professor	. 9	8	8	A	A
29	Er.	Rupinder Kaur	Assistant Professor	atk	ofth	AIN	Atk	AHTE
30	Er.	Sachin Bagga	Assistant Professor	170	Ing.	JA.	Q'	J-\$ 0
31	Er.	Sandeep Kumar Singla	Assistant Professor	10	0/02	15	1 de	1 AS
32	Er.	Sartinderpal Singh	AP (CP)/ CP, Computer Centre	1	1	54	1	
33	Er.	Shifa Grover	Research Scholar	Rila Guoun	Stite Grow	Stife Guow.	Sujabun	Rife brown

Cosolidated Attendance Sheet (QIP-STC)

Name of the Course: AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing 31st December 2018 (Monday) - 04th January 2019 (Friday)

Venue: Consultancy Seminar Hall, Guru Nanak Dev Engineering College Ludhiana

S.No.		Name of the Participant	Designation					
				31.12,2018	1.1,2019	2,4.2019	3.1,2019	4,1,2019
35	Er.	Sidharth Jain	Assistant Professor	<u> 2</u>	2	2	2	X.
36	Dr.	Sumeet Kaur Sehra	Assistant Professor	8	5	16	b	8
37	Ms.	Sunanda Lal	Assistant Professor	Mall	Blell	14	19-94	Stal
38	Er.	Swaranjit Singh	Research Scholar	Swammaksingh	Susciality Stron	Sussimulitingn	Succional t Sinon	Swanmutanger
39	Ms.	Taranpreet Kaur	Assistant Professor	Morant	Monun	Muraut	Horaunt	Myraum
40	Dr.	Vikas Singla	Assistant Professor	0	- 72	82	B	200
41	Er.	Yadvir Kaur	Assistant Professor	Y'nder	Yada	Jaki	Note	400
42	Mis	· Shinami A. Abard	A.P	8	8	8	AS -	8

43 Manter Branchi Dx kuran Tydi QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 –
Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana

Receiving Slip of 16GB Pen Drive

		Receiving	Sup of 10GB ren Drive	
Dr./ Er./ Mr./ Ms./ Mrs.	Participant Name	Designation	Affiliation	Signature with Date
Er.	Birpal Kaur	Assistant Professor	GNA University, Phagwara	4
Er.	Divya Sharma	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Dity a gram
Er.	Gitanjali	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	1 1: 4/01/2019
Er.	Gurjit Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	lyhoup
Er.	Gurjot Singh	Assistant Professor	Malwa College, Samrala	assisting
Er.	Harsimran Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	War 101/2019
Er.	Jasmine Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Jacon -
Er.	Kapil Kumar	Assistant Professor	Lingaya's Vidyapeeth, Faridabad	Karil Kumar 17/17
Mr.	Karanbir Singh	CEO	Up2Mark Technologies Pvt. Ltd.	Jane
Er.	Mandeep Kaur	Assistant Professor	Khalsa College for Women, Ludhiana	Mary 1/15
Er.	Mandeep Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Man [1,1 19.
Er.	Navpreet Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Naupriltany 4/01/201
Er.	Nidhi Sharma	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Dauphultaus 4/01/2019
Ms.	Parminder Kaur	Assistant Professor	Khalsa College for Women, Ludhiana	Par 1/1/19
	Mr./ Ms./ Mrs. Er. Er. Er. Er. Er. Er. Er. Er. Er. Er	Mr./ Ms./ Mrs. Er. Birpal Kaur Er. Divya Sharma Er. Gitanjali Er. Gurjit Kaur Er. Gurjot Singh Er. Harsimran Kaur Er. Jasmine Kaur Er. Kapil Kumar Mr. Karanbir Singh Er. Mandeep Kaur Er. Mandeep Kaur Er. Navpreet Kaur Er. Nidhi Sharma	Dr./Er./ Mr./ Ms./ Mrs. Er. Birpal Kaur Assistant Professor Er. Divya Sharma Research Scholar Er. Gitanjali Research Scholar Er. Gurjit Kaur Assistant Professor Er. Gurjot Singh Assistant Professor Er. Harsimran Kaur Research Scholar Er. Jasmine Kaur Assistant Professor Er. Kapil Kumar Assistant Professor Mr. Karanbir Singh CEO Er. Mandeep Kaur Assistant Professor Er. Mandeep Kaur Research Scholar Er. Navpreet Kaur Research Scholar Er. Navpreet Kaur Research Scholar Er. Navpreet Kaur Research Scholar Er. Nidhi Sharma Assistant Professor	Mr./ Ms./ Participant Name Mrs. Er. Birpal Kaur Assistant Professor GNA University, Phagwara Er. Divya Sharma Research Scholar Guru Nanak Dev Engineering College, Ludhiana Er. Gurjit Kaur Assistant Professor Guru Nanak Dev Engineering College, Ludhiana Er. Gurjit Singh Assistant Professor Guru Nanak Dev Engineering College, Ludhiana Er. Harsimran Kaur Research Scholar Guru Nanak Dev Engineering College, Ludhiana Er. Jasmine Kaur Assistant Professor Guru Nanak Dev Engineering College, Ludhiana Er. Jasmine Kaur Assistant Professor Guru Nanak Dev Engineering College, Ludhiana Er. Kapil Kumar Assistant Professor Lingaya's Vidyapeeth, Faridabad Mr. Karanbir Singh CEO Up2Mark Technologies Pvt. Ltd. Er. Mandeep Kaur Assistant Professor Khalsa College for Women, Ludhiana Er. Mandeep Kaur Research Scholar Guru Nanak Dev Engineering College, Ludhiana Er. Navpreet Kaur Research Scholar Guru Nanak Dev Engineering College, Ludhiana Er. Navpreet Kaur Research Scholar Guru Nanak Dev Engineering College, Ludhiana Er. Nidhi Sharma Assistant Professor Guru Nanak Dev Engineering College, Ludhiana

QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 –
Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana

Receiving Slip of 16GB Pen Drive

S. No.	Dr./ Er./ Mr./ Ms./ Mrs.	Participant Name	Designation	Affiliation	Signature with Date
15	Er.	Prabhjot Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Practizion kan 4 to
16	Er.	Prabhjot Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	Prosegut Know
17	Mr.	Puncet Singh	Director	Up2Mark Technologies Pvt. Ltd.	funt Is
18	Er.	Rajni Puri	Assistant Professor	Gigrarywala Guru Nanak Institute of Management & Technology, Lodhiuna	Sarinia .
19	Er.	Sartinderpal Singh	AP (CP)/ CP, Computer Centre	Guru Nanak Dev Engineering College, Ludhiana	Oats 4/1/19
20	Er.	Shifa Grover	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	St. fa Grown 4/1/19
21	Er.	Shivani Arora Abrol	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	2-8-
22	Dr.	Sumeet Kaur Sehra	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	54/1/19
23	Ms.	Sunanda Lal	Assistant Professor	Gujranwala Guru Nanak Institute of Management & Technology, Ludhiana	1 4/10/2019
24	Er.	Swaranjit Singh	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	Simple 112019
25	Ms.	Taranpreet Kaur	Assistant Professor	Mata Gujri College, Fatehgarh Sahib	Ymaurs -
26	Dr.	Vikas Singla	Assistant Professor	Malout Institute of Management & Information Technology, Malout	B 04/01/2-11

Attendance Sheet (QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 - Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

Photograph on Dated 31.12.2018

S. No.	Dr./ Er./ Mr./ Ms./ Mrs.	Participant Name	Designation	Affiliation	Remarks for the Photographer
1	Dr.	Amit Kamra	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5156
2	Er.	Birpal Kaur	Assistant Professor	GNA University, Phagwara	5159
3	Er.	Dinesh Anand	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5173
4	Er.	Divya Sharma	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5278
5	Er.	Gitanjali	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5281
6	Er.	Gurjit Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5267
7	Er.	Gurjot Singh	Assistant Professor	Malwa College, Samrala	5157
8	Er.	Hanit Karwal	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5168.
9	Er.	Harjot Kaur Gill	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5176
10	Er.	Harpeet Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5175
11	Er.	Harsimran Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5164
12	Er.	Jagdeep Singh	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5153
13	Er.	Jasmine Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5265
14	Dr.	K.S. Mann	Professor	Guru Nanak Dev Engineering College, Ludhiana	5273

Attendance Sheet (QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 - Jan. 64th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

Photograph on Dated 31.12.2018

S. No.	Dr./ Er./ Mr./ Ms./ Mrs.	Participant Name	Designation	Affiliation	Remarks for the Photographer
15	Dr.	Kamaljit Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5165
16	Er.	Kanwalpreet Singh Sidhu	Assistant Professor	Bhutta College of Engineering and Technology, Ludhiana	a
17	Er.	Kapil Kumar	Assistant Professor	Lingaya's Vidyapeeth, Faridabad	5158
18	Er.	Karamjit Singh Gill	Assistant Professor	Bhutta College of Engineering and Technology, Ludhiana	9
19	Mr.	Karanbir Singh	CEO	Up2Mark Technologies Pvt. Ltd.	5263
20	Dr.	Kiran Jyoti	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5274
21	Er.	Mandeep Kaur	Assistant Professor	Khalsa College for Women, Ludhiana	5178
22	Er.	Mandeep Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5277
23	Er.	Navpreet Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5279
24	Er.	Nidhi Sharma	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5268
25	1000	Nitish Sharma	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	9
26		Pankaj Bhambri	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5160
27		Parminder Kaur	Assistant Professor	Khalsa College for Women, Ludhiana	5161
28		Prabhjot Kaur	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5276

Attendance Sheet (QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec. 31st 2018 – Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

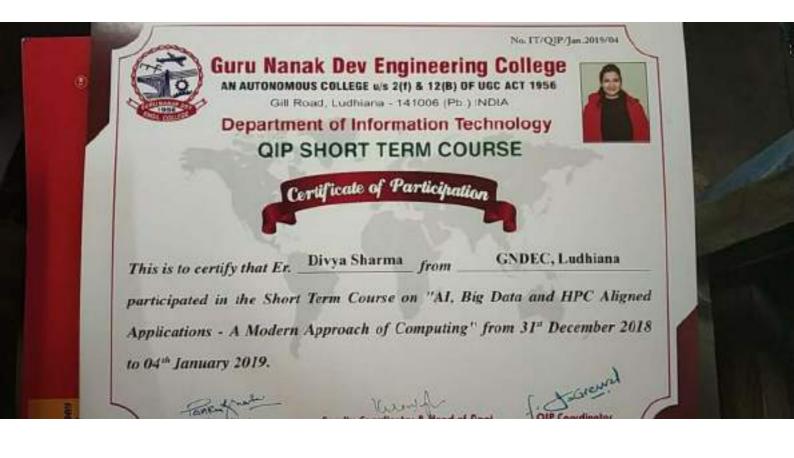
Photograph on Dated 31.12,2018

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S. No.	Dr./ Er./ Mr./ Ms./ Mrs.	Participant Name	Designation	Affiliation	Remarks for the Photographer
29	Er.	Prabhjot Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5269
30	Mr.	Puneet Singh	Director	Up2Mark Technologies Pvt. Ltd.	5262
31	Er.	Rajni Puri	Assistant Professor	Gujumwala Guru Nanak Institute of Management & Technology, Ludhiana	5172
32	Er.	Ravinder Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	X
33	Er.	Rupinder Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5266
34		Sachin Bagga	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5154
35	Er.	Samreet Kaur Gosal	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	X
36	100	Sandeep Kumar Singla	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5285
37		Sartinderpal Singh	AP (CP)/ CP, Computer Centre	Guru Nanak Dev Engineering College, Ludhiana	5174
38		Shifa Grover	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5283
39		Shivani Arora Abrol	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5288
40		Sidharth Jain	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5169
41		Sumeet Kaur Sehra	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	5286
42		Sunanda Lal	Assistant Professor	Gujranwala Guru Nanak Institute of Management & Technology, Ludhiona	5170
42	(882)	Dulling con-			

Attendance Sheet (QIP Short Term Course on AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing During Dec, 31st 2018 - Jan. 04th 2019 by the Dept. of Info. Tech., GNDEC Ludhiana)

Photograph on Dated 31.12.2018

s.	Dr./ Er./ Mr./ Ms./	Participant Name	Designation	Affiliation	Remarks for the Photographer
No.	Mrs.	rar tierpant conne		and the College Ludbing	1
43	Err	Sunil Aggarwal	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	7
44	Er.	Swaranjit Singh	Research Scholar	Guru Nanak Dev Engineering College, Ludhiana	5163
45	Ms.	Taranpreet Kaur	Assistant Professor	Mata Gujri College, Fatehgarh Sahib	5162
	Dr.	V.J. Rai	Principal	Bhutta College of Engineering and Technology, Ludhiana	9
46		500 Medical Sec.	Assistant Professor	Malout Institute of Management & Information Technology, Malout	5264
47	Dr.	Vikas Singla	200000000000000000000000000000000000000		5177
48	Er.	Yadvir Kaur	Assistant Professor	Guru Nanak Dev Engineering College, Ludhiana	3111



No. IT/QIP/Jan.2019/21



Guru Nanak Dev Engineering College

AN AUTONOMOUS COLLEGE u/s 2(f) & 12(B) OF UGC ACT 1956
Gill Road, Ludhians - 141006 (Pb.) INDIA



Department of Information Technology

QIP SHORT TERM COURSE



This is to certify that Er. Navpreet Kaur from GNDEC, Ludhiana participated in the Short Term Course on "AI, Big Data and HPC Aligned Applications - A Modern Approach of Computing" from 31st December 2018 to 04th January 2019.

Course Coordinater

Faculty Coordinator & Head of Dept.

Olf Coordinator

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

An Autonomous College u/s 2(f) and 12(B) of UGC Act 1956

Department of Production Engineering

Consolidated report on Faculty Development Program on 'Tribological Analysis on Four Dimensional Printed Engineering Materials'.

The faculty development program sponsored by QIP on 'Tribological Analysis on Four Dimensional Printed Engineering Materials' was organized by the Production Engineering department from 9 – 13 October, 2018. FDP was held under the guidance of Principal GNDEC, Ludhiana and HOD Production Engineering the program was designed for industrialist, medical field representatives, researchers and faculty of Various fields of Engineering, as it was an in terdisciplinary course.

The experts from the various reputed institutes were present to deliver lectures and share their experiences in Four dimensional printing of engineering materials. More than 40 participants from various institutions had attended the program to take benefits of expert talks and enhanced their knowledge in the field of four dimensional printing.

Objectives of the program:

- 1. Material development for 4D printing.
- Hands on experience for preparation of 4D print by additive manufacturing.
- Tribological analysis by using erosion and wear studies.
- 4. Lab testing of functional prototypes as per ASTM standards.

Sessions of the program:

Session I:

09:15 am - 10:45 am

Tea break (10:45 am - 11:00 am)

Session II:

11:00 am - 12:30 pm

Lunch break (12:30 pm - 01:15 pm)

Session III:

01:15 pm - 02:45 pm

Tea break (02:45 pm - 03:00 pm)

Session IV: 03:00 pm - 04:30 pm

Course contents:

- · Role of 4D printed functional prototypes.
- Additive manufacturing for 4D printed components.
- Tribological analysis.
- Design of experiment (various tools for process optimization)
- · Case studies on dental/ortho 4D materials.
- · Practice session for lab testing as per ASTM standards.

Speakers:

- Dr. Buta Singh (MRS Punjab Techninal University, Bathinda)
- Dr. Satya Prakash (HT Roorkee)
- Dr. Bhupinder Singh Bhoop (PU, Chandigarh)
- Dr. IPS Ahuja (Punjabi University, Patiala)
- Dr. JS NS Vyas (IIT Kanpur)
- Dr. Sanjeev Kumar (PEC, Chandigarh)
- Dr. Sandeep Grover (YMCA, Faridabad)
- Dr. Harpret Singh (IIT Ropar)
- Dr. Rupinder Singh (GNDEC, Ludhiana)
- Dr. JS Grewal (GNDEC Ludhiana)

Organizing Committee:

- Dr. JS Grewal (Patron)
- Dr. Rupinder Singh (Course Coordinator)
- Er. Manjot Singh Bedi
- Dr. Harpuneet Singh
- Er. Jagdeep Singh
- Er. Kanwalpreet Sahni
- Er. Arshpreet Kaur

Er. Gulraj Singh

Er. Gurleen Singh

HOD PE

QIP Short term Course

on

Tribological Analysis of Four Dimensional Printed Engineering Materials Nov. $19-24,\,2018$

Schedule of Expert Talks

		Date: 19/11/2018
1.	9:00 AM - 09:15 AM	Registration
2.	09:15 AM – 10:45 AM	Lecture by Dr. O.P. Singh, BCET, Gurdaspur
3.	10:45 AM – 11:00 AM	High Tea
4.	11:00 AM – 12:30 PM	Lecture by Dr. H.S. Bedi
5.	12:30 PM – 01:15 PM	Lunch
6.	01:15 PM - 02:45PM	Lecture by Dr. Amit Kamra, GNDEC, Ludhiana
7.	02:45 PM – 03:00 PM	Tea
8.	03:00 PM – 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, LDH
		Date: 20/11/2018
1.	09:15 AM – 10:45 AM	Lecture by Dr. Ishbir Singh, CU, Gharuan
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. G.S. Brar, GNDEC, LDH
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. Rupinder Singh, GNDEC, LDH
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. J.S. Grewal, GNDEC, Ludhiana
		Date: 21/11/2018
1.	09:15 AM – 10:45 AM	Lecture by Dr. Damandeep Singh
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Harwinder Singh, GNDEC, Ludhiana
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. Dixit Garg
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
		Date: 22/11/2018
1.	09:15 AM – 10:45 AM	Lecture by Dr. J.S. Grewal, GNDEC, Ludhiana
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Jatinder Kapoor, GNDEC, Ludhiana
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. J.S. Grewal, GNDEC, LDH
1	0015106 1015	Date: 23/11/2018
1.	09:15 AM – 10:45 AM	Lecture by Dr. G.S. Brar, GNDEC, Ludhiana
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Amit Kamra, GNDEC, Ludhiana
4.	12:30 PM – 01:15 PM	Lunch

5.	01:15 PM – 02:45PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. J.S. Grewal, GNDEC, LDH
		Date: 24/11/2018
1.	09:15 AM – 10:45 AM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. R.S. Dhall
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. Manpreet Singh
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Valedictory function cum expert talk by Chief guest

S. No.	Name of student	19/11/2018	20/11/2018	21/11/2018	22/11/2018	23/11/2018	24/11/2018
1	Daljit Singh	Dalyel.	Dolph	Delgul	Delpit	Delget	July 15
2	Gurchetan Singh	GSM	GSul	GSW	Som	Glip	Glil
3	Gurkanwal Singh Punia	C. L. P. C. C.	Cille	Com	alan	alen	alan.
4	Jagroop Singh Bhatti	JSAndri	ISBLAH	ISBLAH	ISBLAH	JSBLatty	ISBL
5	Jaskaran Singh Kang	-Sasker	500F-	Jaskam		J-4-	Saskan
6	Rahul Blotra	Jali	Luce	lee	Dut	latel	full
7	Saravjot Singh	Malor	lar	Sol	Selv	Sole	Soler



Guru Nanak Dev Engineering College, Ludhiana AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT-1956

Department of Production Engineering

QIP short term course

Certificate of Participation

This is to certify that Mr. Jaskaran Singh From GNDEC, Ludhiana participated in the 5 days course in "Tribological Analysis of Four Dimensional Printed Engineering Materials" from November 19-24, 2018.

Faculty Coordinator & Head of Dept.

SGIENS

QIP Coordinator

No. 029/9E/81/2018





Guru Nanak Dev Engineering College, Ludhiana AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT-1956

Department of Production Engineering

QIP short term course

Certificate of Participation

This is to certify that Mr. Gurchetan Singh From GNDEC, Ludhiana participated in the 5 days course in "Tribological Analysis of Four Dimensional Printed Engineering Materials" from November 19-24, 2018.

Faculty Coordinator & Head of Dept.

QIP Coordinator

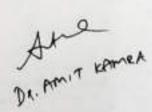
No. 028/8E/82/2018



Event Report of 1 week FDP "Insights of Image Processing and their recent trends" held from 07/03/2018 - 11/03/2018 conducted by IT Department.

Information Technology department conducted FDP on o give a brief about this course that started on 7 March 2018 where Dr Akshay Girdhar from GNDEC started with basic of Image Processing. Dr. Anjali Goyal from GNIMT Ludhiana lecture was based on CBIR, medical imaging, biomedical engineering and health informatics. Dr Jagroop Singh, from DAVIET Jalandhar spoke about image compression. Mr. Jagdeep singh from GNDEC gave hands on session for MATLAB and weka. To cater the issue of plagiarism, Dr Akshay Girdhar presented a very detailed presentation on how to avoid plagiarism.

Dr. Vipul Sharma from IKGPTU gave lecture on how to use mendeley and writing a world class paper. He also explained use of Mendely, how to access various database. Dr. Jitender Vermani, CSIO Chandigarh spoke about image resolution and his research on cancer diagnosis. Dr Mandeep Singh from Thapar University presented his views on Liver Characterization. The FDP is designed to bring Researchers, Academia and Technocrats from different parts of the country to a common gathering for exchanging and sharing the recent developments in the field of Medical imaging. Dr. Navdeep Kanwal from Punjabi university spoke on image forensics. On the final day Dr. Savita Gupta, director UIET presented some latest case studies and practical examples that enrich concept in the field of Medical imaging, Biomedical Engineering. Principal GNDEC and HOD (IT) thanks all the participants for their keen learning on image processing applications.



Schedule for QIP sponsored STC on "Insights of Image Processing and their recent trends "from 7th March to 11th March 2018.

Day/Date	9.45 am-11:15 am	9:45am-11:15am	11:15am-12:45pm	12:45pm-1:45pm <u>Lunch</u>	1:45 pm-3:15pm Session	3:15 pm-3:30pm <u>Tea</u>	3:30 pm-5:00 pm <u>Session</u>
Wed (07/03/18)	Introduction to Image Processing Dr. Amit Kamra GNDEC Ludhiana	Tea	Pixel Relationships Dr. Anjali Goyal GNIMT Ludhiana		Image Enhancement Dr. Jagroop Singh DAVIET Jalandhar		Histogram Processing Dr.Akshay Girdhar GNDEC Ludhiana
	9:00 am-10:30 am Session 1	10:30am-10:45am <u>Tea</u>	10.45 am-12:15 pm Session 2	12:15pm-1:15 pm <u>Lunch</u>	1:15 pm-2.45 pm Session 3	2.45 pm-3:0 pm <u>Tea</u>	3:00 pm-4.30 pm Session 4
Thursday (08/03/18)	Image Sharpening Harjot Kaur GNDEC Ludhiana		Frequency Domain Dr. Jatinder Varmani, CSIO Chd		Image Restoration Dr. Jatinder Varmani, CSIO Chd		Wavelets Jappreet Kaur GNDEC Ludhiana
Friday (09/03/18)	Wavelets Jappreet Kaur GNDEC Ludhiana		Image Compression Dr. Vipul Sharma IKGPTU Jalandhar		Image Compression Dr. Vipul Sharma IKGPTU Jalandhar		Plagiarism Dr.Akshay Girdhar GNDEC Ludhiana
Saturday (10/03/18)	Image Segmentation Navdeep Kanwal Pbi. Univ. Patiala		Image Segmentation Navdeep Kanwal Pbi. Univ. Patiala		Image Morphology Amit Kamra		Image Features Representation and Description Navdeep Kanwal
	9.00am-10:30 am	10.30:10.45 <u>Tea</u>	10:45am-12:00 pm Keynote Address	12:00 pm-12.45 pm <u>Lunch</u>	12.45 pm-2.15 pm Session	2.15 pm-3:45m	3:45pm-4.30 pm <u>Session</u>
Sunday (11/03/18)	Research Oriented Amit Kamra		Research Dr. Mandeep Singh		Research Dr. Sukhwinder Singh	Research Dr Savita Gupta	Valedictory/High Tea

[•] Registration of course will be done from 9 am to 9.45 am on 07/03/2018.

Coordinator (STC)

CBP sponsored STC by IT Depts. From 7/3/18 to 11/3/18

	on applianted at	by it wepts From	1/3/18 to 11/3/18	
Name	Session 1	Session 2	Session 3	Session 4
Priyanka Aroca	81	30	1	\$V
Mandeep Singh	MSL	MRI	m.S.I	MSA
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Jasmine Kisur	James Kan	January	Samuel.	Jacobs
Purnima Bakshi	TOTAL	(PAS	(PB	CVB
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Divyadeep Kaur	Divgodey	Divyed	Divyad	Dimage
Maninder hauc	Harder Kan	Hamiduka	Yanida Kau	11
Taraojit kaur	Tomorgist Kow			
Gurwinder Kaur	Gram	GERM	Grane	Gram
Nancy	Nanuj	Nancy	Newly	Namey-
Kamal Nain Sharma	Kamal	Kann	Course	Kamap
Surpreet Kaur	Chur Proset	Gurpreet	Gurpseet	Churprest
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fordeep Singh Jawanda	Q,	6/	Ah	M
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Sukhdeep Kaur	Sopringa	Just !	Sutur	gulary
Maninder Kaur	Haninder Kans	Hawlada Ken	Lilawinder Tan	Hamile Kar
Manjot Kaur	Manyortain	Manyottam	Manyottam	Maryottaur
Harjot Kaur Gill		10	, ha	, ha
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Vlanpreet Singh	Ninh	Mah	Mah	Mal
Amit Kacura	A	A	An	A
Kamaljit Kaur Dhillon	498	1-98	VET	KAR
Pankaj Bhambri				
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GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

(Punjab Govt, Aided Status)

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It is certified that Divyadcep Kaur, Research Scholar of Guru Nanak Dev Engineering College, Ludhiana has attended One Week Short Term Course on "Insights of Image Processing and their Recent Trends" sponsored by Quality Improvement Programme (QIP), organised by Department of Information Technology from 07th March = 11th March, 2018.

Course Coordinator

Head of Department

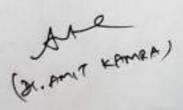
Off Coordinator

Event Report of 2 week FDP "Research Opportunities in Medical Imaging, Biomedical Engineering and Health Informatics" held from 23/10/2017 -03/11/2017 conducted by IT Department

Information Technology department conducted FDP on o give a brief about this course that started on 23rd Oct 2017 where Dr Sukhwinder Singh of UIET was the chief guest. The keynote address of Dr Sukhwinder Singh was based on insights of medical imaging, biomedical engineering and health informatics. An MOU with Conjoint Health care solutions was sgned n FDP for providing research assistance to the M,Tech and PhD Scholars of GNDEC. Dr A S Arora from SLIET Longowal presented his views on his recent research happening in the field of biomedical engineering. Dr. Amit Kamra fromGNDEC talk was on Designing Biometric authentication techniques using MATLAB. To cater the issue of plagiarism, Dr Akshay Girdhar presented a very detailed presentation on how to avoid plagiarism.

The talk of Dr. Vipul Sharma from IKGPTU was very informative as he presented how to write a world class paper. He also explained use of Mendely, how to access various database. Dr. K S Mann gave his ideas on health informatics and how to use HL7 in research purpose. Dr Ajay and Dr Manpreet Singh presented their views on recent trends on Bioinformatics. Dr Mandeep Singh from Thapar University presented his views on Liver Characterization. The participants were provided hands on session to two tools ie.e WEKA and MATLAB. I hope the participants must have gained some practical knowdge from that session. A one day visit was organized to Mayyo Diagnostic and Orison Hospital where Dr Sunil Mittal and his team gave live demonstration of Working of X ray Images, CT

Scan, MRI and Mammography. The FDP is designed to bring Researchers, Academia and Technocrats from different parts of the country to a common gathering for exchanging and sharing the recent developments in the field of Medical imaging, biomedical engineering and health informatics. As the course if of interdiciplnary nature, Dr Rupinder singh of Production department will be presenting a talk on biomedical implants. To inculcate research ideas among young scholars, we have managed to arrange one lecture from Mr Mandeep singh Kwatra who is visiting India from England. Dr Arvind Dhingra gave a talk on MATLAB and its applications. Dr Parminder Singh, share his research ideas on Language processing as machine learning and data mining are two pillars of any research problem. Case studies and practical examples enrich their concept in the field of Medical imaging, Biomedical Engineering, Image Processing, Data mining and it will help them to do better teaching and to conduct research activities at their institutes. HOD presented vote of thanks at valedictory ceremony.



Schedule for AICTE sponsored FDP on Research Opportunities in Medical Imaging, Biomedical Engineering and Health Informatics From $23^{\rm rd}$ Oct to $3^{\rm rd}$ Nov 2017.

Day/Date	10.00am-10:45 am Inaugural Address	10:45am-11:15am <u>High Tea</u>	11:15am-12:45pm Keynote Address	12:45pm-1:45pm <u>Lunch</u>	1:45 pm-3:15pm <u>Session</u>	3:15 pm-3:30pm <u>Tea</u>	3:30 pm-5:00 pm <u>Session</u>
Monday (23/10/17)	Inaugural Ceremony		Dr. Sukhwinder Singh, UIET Chd Keynote Address		Dr A S Arora SLIET Longowal		Dr. Amit Kamra, GNDEC Ludhiana
	9:15am-10:45 am <u>Session 1</u>	10:45am-11:00am <u>Tea</u>	11:00am-12:30pm Session 2	12:30pm-1:30 pm <u>Lunch</u>	1:30 pm-3:00pm Session 3	3:00 pm-3:15 pm <u>Tea</u>	3:15 pm-4.45 pm <u>Session 4</u>
Tuesday (24/10/17)	Dr. Akshay Girdhar GNDEC Ludhiana		Dr. Vipul Sharma, IKGPTU Bhikiwind Campus		Dr. Vipul Sharma, IKGPTU Bhikiwind Campus		Dr. K S Mann GNDEC Ludhiana
Wednesday (25/10/17)	Dr. Rupinder Singh, GNDEC Ludhiana		Dr. Birmohan Singh, SLIET Longowal		Dr. Manpreet Kaur, SLIET Longowal		Dr. Amit Kamra, GNDEC Ludhiana
Thursday (26/10/17)	Dr. Ajay Shiv Sharma GNDEC Ludhiana		Dr. Manpreet Singh, GNDEC Ludhiana		Dr Leenu		Dr. K S Mann GNDEC Ludhiana
Friday (27/10/17)	Dr. Mandeep Singh, Thapar Universiy		Dr. Mandeep Singh, Thapar Universiy		Hands On WEKA Sachin Bagga, GNDEC Ludhiana		Hands On WEKA Jagdeep Singh GNDEC Ludhiana
Saturday (28/10/17)	Hands On MATLAB Dr. Amit Kamra GNDEC Ludhiana		Hands On MATLAB Jagdeep Singh, GNDEC Ludhiana		Hands On MATLAB Pradeep GNDEC Ludhiana		Hands On MATLAB Pradeep GNDEC Ludhiana
Sunday (29/10/17)	Dr. Pradeep GNDEC Ludhiana	Visit to Mayyo Imaging & Diagnostic Centre, Ludhiana and Visit to Orison Hospital Ludhiana (Lectures by Dr. Sunil Mittal / Dr. K P Singh/ Demonstration of Various Imaging Solutions))					
Monday (30/10/17)	Mandeep Singh Kwatra London, UK		Dr. Puneet Goyal IIT Ropar		Dr. KS Mann IIT Ropar		Dr. Arvind Dhingra GNDEC Ludhiana
Tuesday (31/10/17)	Dr. Jitender Varmani, CSIO Chandigarh		Dr. Jitender Varmani, CSIO Chandigarh		Dr. Ajay GNDEC Ludhiana		Inderjit GNDEC Ludhiana
Wednesday (01/11/17)	Dr. Anjali Goyal GNIMT Ludhiana		Mr. Navdeep Kanwal Pbi Univ. Patiala		Dr. Parminder Singh GNDEC Ludhiana		Visit to Research Lab Dr. Rupinder Singh, GNDEC Ludhiana
Thursday (02/11/17)	Dr. Amit Mehndirata, IIT Delhi		Dr. Amit Mehnidratta, IIT Delhi		Dr. Anup Singh IIT Delhi		Dr. Anup Singh IIT Delhi
Friday (03/11/17)	Dr. Anupama Gupta GZSCET Bathinda		Dr. Ravi Kumar NIT Hamirpur		Valedictory, Ceremony,		High Tea

Coordinator (FDP)

Guru Nanak Dev Engineering College, Ludhiana

Department of information Technology

Attendance for AICTE Sponeured FDP on Medical Imaging.

Diomedical Engineering and Health Informatics from 2 and Oct to 3rd Nov 2012

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GURU NANAK DEV ENGINEERING COLLEGE, (LUDHLANA)



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It is certified that Dixyadeep Kour (Revorch Scholar) of GNDEC LUDHIANA

has attended Two Weeks AICTE Sponsored Faculty Development Programme on

"Research Opportunities in Medical Imaging, Biomedical Engineering and Health Informatics"

Organized by Department of Information Technology from 23td Oct. to 03td Nov. 2017.

Dr. K.S. Mann

(Coordinator)

Dr. Harpal Singh

(Principal)



GURU NANAK DEV ENGINEERING COLLEGE, (LUDHIANA)



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It is certified that Prabhjet Kow (Rusenach Scholor) of GNDEC LUDH TANA

has attended Two Weeks AICTE Sponsored Faculty Development Programme on

"Research Opportunities in Medical Imaging, Biomedical Engineering and Health Informatics"

Organized by Department of Information Technology from 23rd Oct. to 03rd Nov. 2017.

1956

Dr. K.S. Mann

(Coordinator)

Dr. Harpal Singh

(Principal)

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

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Department of Production Engineering

Consolidated report on Faculty Development Program on 'Waste Management by Additive Manufacturing'.

The faculty development program sponsored by AICTE on 'Waste Management by Additive Manufacturing' was organized by the Production Engineering department from 11 – 23 December, 2017. FDP was held under the guidance of Director GNDEC, Ludhiana and HOD Production Engineering the program was designed for industrialist, environmentalist, researchers and faculty of Various fields of Engineering, as it was an in terdisciplinary course.

The experts from the various reputed institutes were present to deliver lectures and share their experiences in waste management and additive manufacturing. More than 45 participants from various institutions have attended the program to take benefits of expert talks and enhanced their knowledge in the field of waste management using additive manufacturing.

Objectives of the program:

- To enhance the knowledge of participants in the field of additive manufacturing.
- 2. Waste management of plastic waste using additive manufacturing techniques.
- 3. Practice session on FDM to make samples using recycled plastic.
- Knowledge related to blending of plastics to enhance their mechanical, electrical and thermal properties.

Sessions of the program:

Session I:

09:15 am - 10:45 am

Tea break (10:45 am - 11:00 am)

Session II:

11:00 am - 12:30 pm

Lunch break (12:30 pm - 01:15 pm)

Session III:

01:15 pm - 02:45 pm

Tea break (02:45 pm - 03:00 pm)

Session IV:

03:00 pm - 04:30 pm

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Key points of FDP:

- Types of waste and its management
- · Introduction to additive manufacturing
- Various additive manufacturing techniques
- Management of waste using additive manufacturing
- Cost reduction in waste management
- E-waste management
- Solid waste management
- Investment casting for Plastic solid waste
- Blending of plastics for enhancing the properties as compare to matric materials
- Practice session using FDM setup

Speakers:

Dr. Buta Singh (MRS Punjab Techninal University, Bathinda)

Dr. Sukhpal Singh (Punjabi University, Talwandi Sabo campus)

Dr. IPS Ahuja (Punjabi University, Patiala)

Dr. JS Dureja (Punjabi University, Patiala)

Dr. OP Singh (BCET, Gurdaspur)

Dr. Sanjeev Kumar (PEC, Chandigarh)

Dr. Sandeep Grover (YMCA, Faridabad)

Dr. Amit Kamra (GNDEC, Ludhiana)

Dr. Akshay Girdhar (GNDEC, Ludhiana)

Dr. Rupinder Singh (GNDEC, Ludhiana)

Organizing Committee:

Dr. MS Saini (Chief Patron)

Dr. JS Grewal (Patron)

Dr. Rupinder Singh (Course Coordinator)

Er. Manjot Singh Bedi (Course Co-coordinator)

Dr. Harpuneet Singh

Er. Jagdeep Singh

Ser ! R

Er. Kanwalpreet Sahni

Er. Paramjit Singh

Er. Gauravdeep Singh

Er. Arshpreet Kaur

Er. Gulraj Singh

Course Coordinato

HOD PE

Schedule of FDP on 'Waste Management by Additive Manufacturing'

		Date: 11/12/2017				
1.	9:00 AM - 09:15 AM	Registration				
2.	09:15 AM – 10:45 AM	Lecture by Dr. O.P. Singh, BCET, Gurdaspur				
3.	10:45 AM – 11:00 AM	High Tea				
4.	11:00 AM – 12:30 PM	Lecture by Dr. O.P. Singh, BCET, Gurdaspur				
5.	12:30 PM - 01:15 PM	Lunch				
6.	01:15 PM – 02:45PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana				
7.	02:45 PM – 03:00 PM	Tea				
8.	03:00 PM – 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, LDH				
	Date: 12/12/2017					
1.	09:15 AM – 10:45 AM	Lecture by Dr. G. Dhuria, DAVIET, Jalandhar				
2.	10:45 AM – 11:00 AM	Tea				
3.	11:00 AM – 12:30 PM	Lecture by Dr. Sanjeev Kumar, PEC, Chandigarh				
4.	12:30 PM – 01:15 PM	Lunch				
5.	01:15 PM – 02:45PM	Lecture by Dr. Sanjeev Kumar, PEC, Chandigarh				
6.	02:45 PM - 03:00 PM	Tea				
7.	03:00 PM – 04:30 PM	Lecture by Dr. Amit Kamra, GNDEC, Ludhiana				
		Date: 13/12/2017				
1.	09:15 AM – 10:45 AM	Lecture by Dr. Harpal Singh, GNDEC, Ludhiana				
2.	10:45 AM – 11:00 AM	Tea				
3.	11:00 AM – 12:30 PM	Lecture by Dr. Harpal Singh, GNDEC, Ludhiana				
4.	12:30 PM – 01:15 PM	Lunch				
5.	01:15 PM – 02:45PM	Lecture by Dr. J.S. Dureja, PU, Patiala				
6.	02:45 PM – 03:00 PM	Tea				
7.	03:00 PM – 04:30 PM	Lecture by Dr. Amit Kamra, GNDEC, Ludhiana				
1	00.15.434.10.45.434	Date: 14/12/2017				
1.	09:15 AM – 10:45 AM	Lecture by Dr. Harwinder Singh, GNDEC, Ludhiana				
2.	10:45 AM – 11:00 AM	Tea				
3.	11:00 AM – 12:30 PM	Lecture by Dr. H.S. Rai, GNDEC, Ludhiana				
4. 5.	12:30 PM – 01:15 PM	Lunch				
	01:15 PM - 02:45PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana				
6. 7.	02:45 PM - 03:00 PM 03:00 PM - 04:30 PM	Tea				
/.	03.00 PM - 04.30 PM	Lecture by Dr. Rupinder Singh, GNDEC, LDH Date: 15/12/2017				
1.	09:15 AM – 10:45 AM	Lecture by Dr. Rupinder Singh, GNDEC, LDH				
2.	10:45 AM – 11:00 AM	Tea				
3.	11:00 AM – 12:30 PM	Lecture by Dr. S.S. Sehgal, CU, Gharuan				
4.	12:30 PM – 01:15 PM	Lunch				
5.	01:15 PM – 02:45PM	Lecture by Dr. Harwinder Singh, GNDEC, Ludhiana				
6.	02:45 PM – 03:00 PM	Tea				
7.	03:00 PM – 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, LDH				
	00.00 2.12 0 1.00 11/1	Date: 16/12/2017				
1.	09:15 AM – 10:45 AM	Lecture by Dr. A. Girdhar, GNDEC, Ludhiana				
2.	10:45 AM – 11:00 AM	Tea				
3.	11:00 AM – 12:30 PM	Lecture by Dr. A. Girdhar, GNDEC, Ludhiana				
	1	<i>y</i>				

4.	12:30 PM - 01:15 PM	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
6.	02:45 PM - 03:00 PM	Tea
7.	03:00 PM - 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
7.	03.001111 01.301111	SUNDAY
		Date: 18/12/2017
1.	09:15 AM – 10:45 AM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Buta Singh, IKG-PTU, Kapurthala
4.	12:30 PM - 01:15 PM	Lunch
5.	01:15 PM - 02:45PM	Lecture by Dr. Buta Singh, IKG-PTU, Kapurthala
6.	02:45 PM - 03:00 PM	Tea
7.	03:00 PM - 04:30 PM	Lecture by Dr. G.S. Brar, GNDEC, Ludhiana
		Date: 19/12/2017
1.	09:15 AM – 10:45 AM	Lecture by Dr. Harmeet Singh, GNDEC, Ludhiana
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. I.P.S. Ahuja, PU, Patiala
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. I.P.S. Ahuja, PU, Patiala
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. J.S.Grewal, GNDEC, LDH
		Date: 20/12/2017
1.	09:15 AM – 10:45 AM	Lecture by Dr. Ishbir Singh, CU, Gharuan
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Ishbir Singh, CU, Gharuan
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM - 02:45PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. Harwinder Singh, GNDEC, Ludhiana
1	00 15 ANA 10 45 ANA	Date: 21/12/2017
1.	09:15 AM – 10:45 AM	Lecture by Dr. G.S. Brar, GNDEC, Ludhiana
2.	10:45 AM – 11:00 AM	High Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Vikas Chawla, IKG-PTU, Kapurthala
4. 5.	12:30 PM – 01:15 PM 01:15 PM – 02:45PM	Lunch Leeture by Dr. Vilres Chewle, IV.C. DTIL Venurthele
6.	02:45 PM - 03:00 PM	Lecture by Dr. Vikas Chawla, IKG-PTU, Kapurthala Tea
7.	03:00 PM - 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
7.	03.00 1 WI = 04.30 1 WI	Date: 22/12/2017
1.	09:15 AM – 10:45 AM	Lecture by Dr. G.S. Brar, GNDEC, Ludhiana
2.	10:45 AM – 11:00 AM	Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Vikas Chawla, IKG-PTU, Kapurthala
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM - 02:45PM	Lecture by Dr. Vikas Chawla, IKG-PTU, Kapurthala
6.	02:45 PM - 03:00 PM	Tea
7.	03:00 PM - 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana
	-	Date: 23/12/2017
1.	09:15 AM – 10:45 AM	Lecture by Dr. Rupinder Singh, GNDEC, Ludhiana

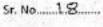
2.	10:45 AM – 11:00 AM	High Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Ajay Batish, Thappar University, Patiala
4.	12:30 PM – 01:15 PM	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. Sandeep Grover, YMCA, Faridabad
6.	02:45 PM – 03:00 PM	Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. Sandeep Grover, YMCA, Faridabad

S. No.	Name of student	11/12/2017	12/12/2017	13/12/2017	14/12/2017	15/12/2017	16/12/2017
1	Anmol Singh Mangat	Sund	Sumol	Armol	, Annot	Annot	Samol
2	Hardeep Singh	HSMyh	Asingh	HSmyh	Haryh	HSryh	Heigh
3	Harpreet Singh	Din	BM	Der	Dim	Polyn	W AN
4	Harsimrandeep Singh	Harsinson,	Harsim son ,	their man	Hasiman	Hassian .	Harsiman
5	Karanvir Singh	Veral Sigh	Jan-ver Syl		Em Sigh	Kingh	Con-Pul
6	Ramanpreet Singh	Ramorpat	Ranompred	Ramanput	Ramarfier	Ranaguel	Ramere

S. No.	Name of student	18/12/2017	19/12/2017	20/12/2017	21/12/2017	22/12/2017	23/12/2017
1	Anmol Singh Mangat	Annel	Samol	Sumol	Sumol	. Annal	Anno
2	Hardeep Singh	HSingh	Hismyh	HSingh.	#Singh	Herzh.	Helingh
3	Harpreet Singh	B.M.	Br	# Ar	200	Plon	Der
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5	Karanvir Singh	Janes Sh	Krandy Syla	Kowagh	Kernis Syl	Forme Sigh	Kin-Sigh
6	Ramanpreet Singh	Zamangrent	Pamampial	Ramonpieut	Ramanpiet	Ramment	Rawinger



Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana





AICTE SPONSORED TWO WEEK FACULTY DEVELOPMENT PROGRAMME
CERTIFICATE OF PARTICIPATION

This is to certify that Prof/Dr./Mr/Ms Harpreet Singh

From _ GNDEC, Lath. participated in the course

WASTE MANAGEMENT BY ADDITIVE MANUFACTURING

December 11-23, 2017

HOD (DE)

Sourse Coordinator



Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana

Sr. No..... 2.8.....



AICTE SPONSORED TWO WEEK FACULTY DEVELOPMENT PROGRAMME CERTIFICATE OF PARTICIPATION

This is to certify that Prof/Dr./Mr/Ms Annal Singh Manget

From ______ CONDEC, Idh. participated in the course

WASTE MANAGEMENT BY ADDITIVE MANUFACTURING

December 11-23, 2017

HOD (PE)

Course Coordinator

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

An Autonomous College u/s 2(f) and 12(B) of UGC Act 1956

Department of Production Engineering

Consolidated report on Faculty Development Program on 'Optimization, Life Enhancement of Bio-Medical Implants by Additive Manufacturing and Protective Coatings'.

The faculty development program sponsored by QIP on 'Optimization, Life Enhancement of Bio-Medical Implants by Additive Manufacturing and Protective Coatings' was organized by the Production Engineering department from 4 – 8 September, 2017, FDP was held under the guidance of Director GNDEC, Ludhiana and HOD Production Engineering, the program was designed for industrialist, medical field representatives, researchers and faculty of Various fields of Engineering, as it was an in terdisciplinary course.

The experts from the various reputed institutes were present to deliver lectures and share their experiences in Bio-Medical implants by additive manufacturing. More than 50 participants from various institutions had attended the program to take benefits of expert talks and enhanced their knowledge in the field of Bio-Medical implants by additive manufacturing and their life enhancement.

Objectives of the program:

- 1. Application of optimization techniques for life enhancement of biomedical implants.
- 2. Hand on experience for preparation of bio medical implants by additive manufacturing.
- 3. Lab testing of protective coatings as per ASTM standards.

Sessions of the program:

Session I:

09:15 am - 10:45 am

Tea break (10:45 am - 11:00 am)

Session II:

11:00 am - 12:30 pm

Lunch break (12:30 pm - 01:15 pm)

Session III:

01:15 pm - 02:45 pm

Tea break (02:45 pm - 03:00 pm)

Session IV: 03:00 pm - 04:30 pm

Course contents:

- · Role of optimization for biomedical implants.
- · Additive manufacturing for biomedical implants.
- Biomedical/protective coatings.
- Design of experiment (various tools for process optimization)
- · Case studies on dental/ortho 4D materials.
- · Practice session for lab testing as per ASTM standards.

Speakers:

- Dr. Buta Singh (MRS Punjab Techninal University, Bathinda)
- Dr. Satya Prakash (IIT Roorkee)
- Dr. Bhupinder Singh Bhoop (PU, Chandigarh)
- Dr. IPS Ahuja (Punjabi University, Patiala)
- Dr. JS Dureja (Punjabi University, Patiala)
- Dr. Sanjeev Kumar (PEC, Chandigarh)
- Dr. Sandeep Grover (YMCA, Faridabad)
- Dr. Rupinder Singh (GNDEC, Ludhiana)
- Dr. GS Brar (GNDEC, Ludhiana)

Organizing Committee:

- Dr. MS Saini (Chief Patron)
- Dr. JS Grewal (Patron)
- Dr. Rupinder Singh (Course Coordinator)
- Er. Manjot Singh Bedi
- Dr. Harpuneet Singh
- Er. Jagdeep Singh
- Er. Gauravdeep Singh
- Er. Paramjit Singh

Er. Kanwalpreet Sahni

Er. Arshpreet Kaur

Er. Gulraj Singh

HOD PE

Schedule of FDP on 'Optimization, Life Enhancement of Bio-Medical Implants by Additive Manufacturing and Protective Coatings'

Sr No.		DAY 1- 4 TH SEPTEMBER, 20	17	
1.	9:00 AM - 09:15 AM	Registration	Area	
2.	09:15 AM – 10:45 AM	Lecture by Dr. Ravi Kumar, NIT	Material Characterization for	
	10.1-12.5	Hamirpur	biomedical implants	
3.	10:45 AM – 11:00 AM	High		
4.	11:00 AM – 12:30 PM	Lecture by Dr. S.B.Singh, GNDEC, LDH	Prospectus in inhouse development of biomedical implants	
5.	12:30 PM – 01:15 PM	Lun	ch	
6.	01:15 PM – 02:45PM	Lecture by Dr. G.S. Brar , GNDEC, LDH	FEM analysis of Biomedical implants	
7.	02:45 PM – 03:00 PM	Te	a	
8.	03:00 PM – 04:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, LDH	Fused deposition modelling hand on practice for orthopedic implants	
Sr No.		DAY 2-5 TH SEPTEMBER, 20	17	
1.	09:15 AM – 10:45 AM	Lecture by Dr. Niraj Bala, BBSBEC, Fgh. Sahib	Plasma based protective coatings for biomedical implants	
2.	10:45 AM – 11:00 AM	Tea		
3.	11:00 AM – 12:30 PM	Lecture by Dr. IPS Ahuja, Pbi. Uni, Pta.	TPM application for optimization in industrial environment	
4.	12:30 PM – 01:15 PM	Lun -	ch	
5.	01:15 PM – 02:45PM	Lecture by Dr. Harwinder Singh , GNDEC, LDH	Optimization using TOPSIS	
6.	02:45 PM – 03:00 PM	Te	a	
7.	03:00 PM – 04:30 PM	Lecture by Dr. JS Dureja, Pbi. Uni, Pta.	RSM based optimization	
Sr No.	DAY 3- 6 TH	SEPTEMBER, 2017		
1.	09:15 AM – 10:45 AM	Lecture by Dr. O.P. Singh, BCET, Gurdaspur	Optimization in supply chain management	
2.	10:45 AM – 11:00 AM	Te	a	
3.	11:00 AM – 12:30 PM	Lecture by Dr. Rupinder Singh, GNDEC, LDH.	Biomedical implants fabrication through investment casting	
4.	12:30 PM – 01:15 PM	Lun		
5.	01:15 PM – 02:45PM	Lecture by Dr. Amit Kamra , GNDEC, LDH	Implant corrosion protection	
6.	02:45 PM – 03:00 PM	Te	a	
7.	03:00 PM – 04:30 PM	Lecture by Dr. JS Grewal, GNDEC, LDH	Lab training on Wear and erosion analysis	
Sr No.		DAY 4- 7 TH SEPTEMBER, 20		
		Lecture by Dr. Sanjeev	Taguchi Based optimization	

		Thakkar, PEC, CHD	
2.	10:45 AM – 11:00 AM		Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Sanjeev Thakkar, PEC, CHD	Taguchi optimization Tutorials
4.	12:30 PM – 01:15 PM	I	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. JS Pandher, NIT Jalandhr	Multi objective optimization
6.	02:45 PM – 03:00 PM		Tea
7.	03:00 PM – 04:30 PM	Lecture by Dr. Akshay	Plagiarism/ similarity analysis
		Girdhar, GNDEC, LDH	through Turnitin software
Sr No.		DAY 5-8 TH SEPTEMBER,	2017
1.	09:15 AM – 10:45 AM	Lecture by Dr. Rupinder Singh	, Dental implants through 3D/4D
		GNDEC, LDH	printing
2.	10:45 AM – 11:00 AM		Tea
3.	11:00 AM – 12:30 PM	Lecture by Dr. Dixit Garg, NIT	Multi criteria decision making
		Kurukshetra	
4.	12:30 PM – 01:15 PM	I	Lunch
5.	01:15 PM – 02:45PM	Lecture by Dr. Sandeep Grover	r, Optimization through Graph
		YMCA	theory
6.	02:45 PM – 03:00 PM		Tea
7.	03:00 PM – 04:30 PM	Valedictory speech By Dr. F	R.S.Seehra and Dr. Sandeep Grover,
		Y	MCA

S. No.	Name of student	4/9/2017	5/9/2017	otective Coatings'	7/9/2017	9/9/2017
1	Amritjot Singh Riat	-Alex	Alu	-11	//w/2017	8/9/2017
2	Baldeep Singh	Bolder	Balduf	Rolden	Balled	Stern
3	Harman Raj Singh	HSA	-HSA	+1510	# Stall	HED
4	Jagdeep Singh Cheema	Jagder	Jagday	Jagdup	Tardeep	Jerder
5	Kamalpreet Singh Riat	Darch	Day-	Bayl	Tr single	W South -
6	Rahul	Jahre	feert	Jack	Jake	Contract of the second
7	Rohit Kumar	Robinson	Phymer	Pre ers	Dia	0.
8	Jagmeet Singh	Jagreet	Jamest	Jayment	Tarment	House

Certificate of Participation



QIP Short Term Course

on

Optimization, Life Enhancement of Bio-Medical Implants by Additive Manufacturing and Protective Coatings

This is awarded to Dr/Mr/Ms Robit Kumar

of GNDEC, Lah. for participation in QIP short term course on

"Optimization, Life Enhancement of Bio-Medeical Implants by Additive Manufacturing and

Protective Coatings" held from 4th September, 2017 to 8th September 2017, organized by Department of

Production Engineering, Guru Nanak Dev Engineering College, Ludhiana.

Dr. Rupinder Singh

Dr. J.S. Grewal Faculty Coordinator Dr. M.S. Saini

Certificate of Participation



QIP Short Term Course

on

Optimization, Life Enhancement of Bio-Medical Implants by Additive Manufacturing and Protective Coatings

This is awarded to Dr/Mr/Ms Amnit Jot Singh Rint

of GND € C, Lelle for participation in QIP short term course on

"Optimization, Life Enhancement of Bio-Medeical Implants by Additive Manufacturing and

Protective Coatings" held from 4th September, 2017 to 8th September 2017, organized by Department of

Production Engineering, Guru Nanak Dev Engineering College, Ludhiana.

Dr. Rupinder Singh

Dr. J.S. Grewal
Faculty Coordinator

Dr. M.S. Saini



Global Initiative of Academic Network (GIAN) Programme GURU NANAK DEV ENGINEERING COLLEGE, GILL ROAD, GILL PARK, LUDHIANA-141006

Report on Conduct of GIAN Course

Title of GIAN Course	Waste management !	by three dimensional/four dimensional printing		
GIAN Course ID	175043L02	- Contain Disputing		
Period of Course	18-12-2017 to 22-12	2017		
Name and Department o	f Faculty from <gndec< td=""><td></td></gndec<>			
Course Coordinator	Trapinaci Singri, Dept	of Production Engineering (GNDEC, Ludhian		
Name	Brof Duninda Sint			
Department	Prof. Rupinder Singh			
Department	Production Engineering			
	Co-host Faculty, if an	y N.A		
Name		N.A		
Department		N.A		
Name and Affiliation of	of International Faculty	11111		
Name	Prof. Fernando Frater	nali		
Affiliation	Univ. of Salerno, Italy			
Name and Affiliation of	of National Faculty, if any			
Name	Prof. Rupinder Singh			
Affiliation	GNDEC Ludhiana			
Structure of the Course				
Duration of course (1 w	veek or 2 weeks)	1 Week		
Number of credits (1 o	r 2)	01		
Total number of lecture	es in the course	10		
Number of lectures by Int	ernational Faculty	06		
Number of lectures by		04		
	oratory/tutorial sessions	10 (06 by International Faculty+04 by Host Faculty)		
Participants of the Cour	se	41		
Number of student partici	pants	24		
N I				

01

16

Number of participants from Industry/ Research

Organisations

Number of Faculty participants

umber of participants	41	
per of participants who credited for the course	41	
Course Generated Fund		
Sponsorship, if any (in Rs.)	NIL ,	9
Registration Fee Collected	NIL	EST.
Total amount	NIL	3.5

Interaction with International Faculty

Interaction of Host Faculty: The interaction of host faculty (Prof. Rupinder Singh from GNDEC Ludhiana) was very fruitful. As a result of this joint effort a frame work for common project for possible submission under Indo-Italian joint project (sponsored by DST) has been finalized. With the research group of Host Faculty and International Faculty around 10 research papers in reputed Internal SCI Journals have been published. The International faculty has floated the option for joint Ph.D programme of both the Indian and Italian University and MOU in this regards is going to be signed very shortly. Overall the interaction was very helpful for expanding the research domain of Host Faculty as per International requirements.

Interaction of other faculty from GNDEC Ludhiana: The International Faculty has given the option to the Faculty from host Institute to work in the research group of Prof. Fraternali under joint projects especially in the area of structure engineering (by using 3D and 4D materials). The offer has been floated by International Faculty for sponsored Ph.D programme (initially 02 numbers) with full 03 years stipend and rent free accommodation at University of Salerno, Italy.

Interaction of faculty/researchers from other institutes/organizations: The faculty and researchers from other Institutions were exposed to the Lab facilities available at GNDEC, Ludhiana with live demonstration of 3D/4D printing and detailed assembly/manufacturing line for development of feed stock filament to be used on commercial 3D printers. Along with this the ASTM/ISO standards for working in International market were also explained. Overall the interaction was two way with lot of tutorial and practical sessions for direct implementation in field.

Signature of Course Coordinator	D.	
Date of submission of report	Line	Professor (Prod. Engg.)
	13-02-2018	Guru Nanak Dev. Engg. College
	The state of the s	Ludhiana-14100C



S. No.	Name	18/12/2017	19/12/2017	20/12/2017	21/12/2017	22/12/2017
1	Rasanpreet Singh Khangura	Paret	Rayson	farer	falen	Para
2	Sumeet Sharma	Shama	Scharma	Scharma	Sghaina	Scharma
3	Gurchetan Singh	Gu	Can	ans	a.	9
4	Gurdeep SINGH	Goodey life	Genely Jo	Gudup light	Gurden Sigla	Gudelphyt
5	Gurmail Singh	ac	Cl.	66	3	æ
6	Jagroop Singh Bhatti	THE SIL	J-187	Jugar	Taroligh	Frogh.
7	Jaskaran Singh Kang	8	8	8	8	8_
8	Jaswinder Singh	Janwinder Sigh	Januind Wigh	Januindu Singh	Janvindusish	Januina Singl
9	Khalid Bashir Wani	CB Wari	KB Wans	KB peans	KB Wans	KB Wang
10	Manavdeep Singh	Mal	Medi	Most-	Mark	Mon
11	Mandeep Singh	Manderp	Mandeep	Mandeep	Karden	M . I

Attendance list of FDP on Solid Waste Management in Indian Cities – Issues & concerns organized by Civil Engineering Department from August 23, 2016 to August 28, 2016.

			to August	28, 2016.				
Sr. No.	Name of Participants	Institute	23/08/2016	24/08/2016	25/08/2016	26/08/2016	27/08/2016	28/08/2016
1	Gurjot Kaur	GNDEC,	Gajot	Constati	Guriot	Gwist	Gwiot	Second 201
2	Magray Owaes Hassan	GNDEC,	M O	NI A	1 bour	1 Jean	J'ay con	M Car
3	Manvir Kaur	GNDEC,	Wa	July	Magor	Mogon	Mogdin	Magu
4	Pallvi Verma	Ludhiana GNDEC, Ludhiana	ala	N.	Me	No	Re	Rat.
5	Rajwinder Singh	GNDEC	Rente	Dunk	Royl	Pinh	Deml	Wer.
6	Rajvinder Kaur	GNDEC, Ludhiana	Rhow	Rkow	Resur	Rham	Rhow	Rkow
7	Raznish Kaur	GNDEC, Ludhiana	Raznish	Raznish	0 -100	Faznish	7	Raznish
8	Shelly	GNDEC, Ludhiana	Shilly	Shelly	Shelly	Shilly	Chilly	Shely
9	Sukhdeep Kaur	GNDEC, Ludhiana	Swerten	Subu Kand	BUNYOU	Swer You	Sulle Ken	Substand
10	Simranjit Singh	GNDEC, Ludhiana	Gir	لسسسنا	Gime	Cime	Cimmin	Cur.
11	Tanveer Singh Jhajj	GNDEC, Ludhiana	This	This.	1jh-Ma	Tili.	Tihiji	Tihii
12	Manroop Kaur	GNDEC, Ludhiana	Markey 1	Warked 1	Now son 1	Nother 6	Newsof 1	Knach
13	Navjot Kaur	GNDEC, Ludhiana	NE	No	Nr	Nb.	Nh	NIA
14	Somll Thakur	Ludhiana	8. Thabu	S. Thabas	3. Thelan	Twen S	Thaby :	3. Thaten
15	Sonakshi Gurung	GNDEC, Ludhiana	dying	Lgwy	of gury	& guing	Rguny &	gung
16	Arvind Kumar	GNDEC, Ludhiana	DF.	AK	8K	Vr	DE	AL

Report of Short Term Training Program on Solid Waste Management in Indian Cities-Issues and Concerns

The TEQIP-II sponsored short term training program on "Solid Waste Management in Indian Cities- Issues and Concerns" was inaugurated on 23rd August, 2016 in the presence of Dr. R.K. Kohli, Vice-Chancellor, Central University of Punjab, Bathinda who was the worthy chief guest for the occasion. He was accompanied by Dr. K.S. Gill, Head of Department, Civil Engineering, GNDEC and Prof. Puneet Pal Singh Cheema, the program coordinator.

"Nothing is a waste, everything is a resource. It's just that we do not know its use", said Dr. R.K. Kohli during his keynote address. He emphasized on the need of initiatives at the individual level which supplement the government efforts and the role of composting practices in achieving those desired objectives.

A total of 40 participants which included faculty members from various technical institutions of Punjab, Himachal Pradesh, Chandigarh and Orissa and engineers from government organizations enrolled for this program. The course focused on various issues related to solid waste management in Indian cities such as the increasing waste generation rates, the inefficient management etc. and the latest techniques which are available and are being practiced or can be adopted in field. There were 14 detailed lectures on topics like landfills, incineration techniques, composting, Solid Waste Management Rules, 2016 and software like LandGEMS etc. by the experts from the prestigious institutes like IIT Delhi, Central University of Punjab, PGIMER, Panjab University, Punjab Agricultural University, and GNDU, Officials from Punjab Pollution Control Board also delivered a talk in the program. The course also comprised a field visit to Nimbua Greenfields Pvt. Ltd., a hazardous waste management facility in Dera Bassi in order to have a deep insight into the actual conditions at the ground level.

The Chief Guest for the valedictory ceremony was Dr. Manoj Datta, Professor at IIT, Delhi and the guest of honor was Dr. B.J. Alappat, Professor at IIT Delhi. The coordinator of the program, Prof. Puneet Pal Singh Cheema said that this course would surely have been a great learning experience for the participants and must have provided them with new ideas to ponder upon.

(Course Coordinator)

Schedule of TEQIP-II sponsored STTP, 'Solid Waste Management in Indian Cities: Issues and Concerns', August 23rd – 28th, 2016, Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana

Day	Time	Activity
Tuesday (23/08/16)	8:30-9:30 am	Registration
	9:30-10:15 am	Inauguration (Chief Guest- Dr. R.K. Kohli, V.C., Central University of Punjab, Bathinda)
	10:15– 10:45 am	High Tea
	10:45 am – 12:15 pm	Session -1 (Dr. Manpreet Singh Bhatti, Deptt. of Botanical and Env. Sciences, GNDU, Amritsar)
	12:15 – 1:15 pm	Introduction by participants (max. 5 minutes or max. 5 slides: about the research carried out in your institution/teaching/consultancy/college/environmental issues of your region)
	1:15 -2:15 pm	Lunch
	2:15-3:45 pm	Session -2 (Dr. K.S. Gill, Deptt. of Civil Engg., GNDEC, Ludhiana)
	3:45 – 4:00 pm	Tea/Coffee Break
	4:00-5:30 pm	Session-3 (Dr. Ashwani Kumar Soni, School of Energy Studies for Agriculture, PAU, Ludhiana)
Wednesday (24/08/16)	7:30 am- Departure from GNDEC	Visit to Hazardous Waste Management Facility (Nimbua, Dera Bassi)
Thursday (25/08/16)	9:30 am-11:00 am	Session -4 (Dr. S.K. Arora, Deptt. of Civil Engg., PEC Univ. of Technology, Chandigarh)
(20,00,10)	11:00 – 11:15 am	Tea/Coffee Break
	11:15 am- 12:45 pm	Session -5 (Dr. V.K. Garg, Centre for Environmental Sci. & Technology, Central University of Punjab, Bathinda)
	12:45 -1:45 pm	Lunch
	1:45-3:15 pm	Session -6 (Dr. V.K. Garg, Centre for Environmental Sci. & Technology, Central University of Punjab, Bathinda)
	3:15-3:30 pm	Tea/Coffee Break
	3:30- 5:00 pm	Session -7 (Dr. A.S. Reddy, School of Energy and Environment, Thapar University, Patiala)
Friday (26/08/16)	9:30-11:00 am	Session -8 (Dr. A.S. Reddy, School of Energy and Environment, Thapar University, Patiala)
	11:00 – 11:15 am	Tea/Coffee Break
	11:15 am- 12:45 pm	Session -9 (Dr. Ravindra Khaiwal, School of Public Health, PGIMER, Chandigarh)
	12:45-1:45 pm	Lunch
	1:45-3:15 pm	Session -10 (Lecture by officials of Punjab Pollution Control Board)
	3:15-3:30 pm	Tea/Coffee Break
	3:30- 5:00 pm	Session -11 (Dr. J.N. Jha, Principal, Govt. Engg. College, Bihar)
Saturday (27/08/16)	9:30-11:00 am	Session -12 (Dr. B.J. Alappat, Deptt. of Civil Engg., IIT Delhi)
(=1/30/10)	11:00 – 11:15 am	Tea/Coffee Break
	11:15 am- 12:45 pm	Session -13 (Dr. B.J. Alappat, Deptt. of Civil Engg., IIT Delhi)
	12:45-1:45 pm	Lunch
	1:45-3:15 pm	Session -14 (Er. Puneet Pal Singh, GNDEC, Ludhiana)
	3:15-3:30 pm	Tea/Coffee Break
	5.15 5.50 pm	Tow College Dicar

	3:30- 5:00 pm	Session-15 (Dr. A.K. Sodhi, GNDEC, Ludhiana)	
Sunday 9:30-11:00 am Session -16 (Dr. Manoj Datta, Deptt. of Civil Er			
(28/08/16)		Delhi)	
	11:00 – 11:45 am	Valedictory and Certificate Distribution	
	11:45 am	Lunch	



Guru Nanak Deu Engineering College

An Autonomous College u/s [2(f) & 12(B)] of UGC Act -1956 Gill Park, Gill Road, Ludhiana-141006, Punjab (India)

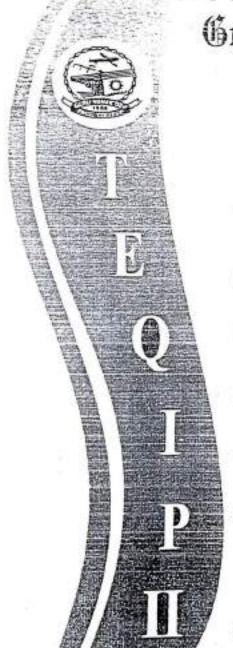
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of GNDEC, Ludwigua	for participation in workshop / Seminar/
	olid Walte Management in udian lities—Issue & Concerns Organized
by Civil Engineering	Department / Branch / Section
from August 23,2016 to	August 28,2015 under TEQIP- II,
Sub Component 1.1, a World Bank Aid	ed Project through MHRD, Govt. of India.

Activity Co-ordinator

Co-ordinator TEQIP-II

Director



Guru Nanak Deu Engineering College

An Autonomous College u/s [2(f) & 12(B)] of UGC Act -1956 Gill Park, Gill Road, Ludhiana-141006, Punjab (India)

-Certificate of Participation &-

	Dr.1. Mr.1 Ms. MAGRAY OWNAES HASSAN
of UNDEC, Ludwigne	for participation in workshop / Seminar/
	Solid Waite Management in eject Indian (ities—Is such & Concerns Organized
*	
by Civil Engineering	Department / Branch / Section
from August 23,2016	to <u>August 28,2016</u> under TEQIP- II,
Sub Component 1.1, a World Ba	ank Aided Project through MHRD, Govt. of India.

Activity Co-ordinator

Co-ordinator TEQIP-II

<u>ISL</u> Director

S. No.	Name of student	28/12/2015	29/12/2015	30/12/2015	31/12/2015	国政党的特别 法
1	Aashish Dhiman	Just	De	De	A85_	
2	Vinay Kumar	Mark	Vingles	Make	1 hours	
3	Atul Babbar	Atul	Atul	Atul	Stal	
4	Gundeep Singh	Gundoup	Ciundup	Gunderp	Cicinterp	
5	Inderdeep Singh	Luder	V. der	Torder	Inder	
6	Manish Vijan	M.Vnan	1	7.1.	M. Vilan	
7	Manjinder Singh	Marriliak	Muzzales	Menjulas!	Mourely	
8	Ranvijay Kumar	Zanyry	Duran.	Piny	Fannia,	
9	Sandeep Singh	as.	Ca.	Ses	Sea	
10	Sudhir Kumar	Kur	Skum	- Kum	5K-	
	-					BENG YERRE PURPOSE AND ADDRESS OF THE PERSON NAMED AND ADDRESS
S. No.	Name of student	1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016
1	Aashish Dhiman	Desc	DEC	A81-	Acc	New
2	Vinay Kumar	Vinale	VI-DE	Market	1 June	11-8-
3	Atul Babbar	Afril	Shul	Alul	Sint	Alue
4	Gundeep Singh	Gunderp	Gundep	Gundoup	Quada	Cundas
5	Inderdeep Singh	Inder	Tuder	Tuder	The	Tuder
6	Manish Vijan	M. Vilan	M. Visan	M Vilan	M.Vizan	
7	Manjinder Singh	May bell	Mongarte	Mounts	Mongineha	Mong
8	Ranvijay Kumar	- Langy	Hampy	Frami jey	tampa.	a sancian
9	Sandeep Singh	Co	Suc	SS	Send	Sec



Guru Nanak Dev Engineering College, Tudhiana

AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT - 1956

Department of Production Engineering

Certificate of participation

2-WEEK FACULTY DEVELOPMENT PROGRAM

NC

"Waste Management and Optimization Techniques"

(under: TEQIP - II)

This certificate is awarded to Ms./Mrs. Mr. Atul Babbar	of
Guru Nonak Dev Engineering College; Ludhiana. for partic 2 Week Faculty Development Program on 'Waste Management and Optimization Techniques' (Under: T	ipation in
held from 27th Dec. 2015 to 5th Jan. 2016, organized by Department of Production Engineering, Gu	EQIP-II), ıru Nanak
Dev Engineering College, Ludhiana.	

Prof. J.S. Grewal

Dr. Rupinder Singh Coordinator Dr. N. ha
TEQIP-II Coordinator





Guru Nanak Dev Engineering College, Ludhiana

AN AUTONOMOUS COLLEGE u/s [2(f) & 12(B)] OF UGC ACT - 1956

Department of Production Engineering

Certificate of participation

2-WEEK FACULTY DEVELOPMENT PROGRAM

N

"Waste Management and Optimization Techniques"

(under: TEQIP - II)

This certificate is awarded to Ms./Mrs	Vinay Kuman	of
Guru Nonak Dev Engineering	College; dudhiana	_ for participation in
2 Week Faculty Development Program on Waste Ma	nagement and Optimization Technique.	s' (Under : TEOIP-II).
held from 27 th Dec. 2015 to 5 th Jan. 2016, organiz	ed by Department of Production Eng	jineering, Guru Nanak
Dev Engineering College, Ludhiana.	Or Engina.	

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Prof. J.S. Grewal

Dr. Rupinder Singh Coordinator

Dr. N. Jha TEQIP-II Coordinator

Event Report of Short Term Course "Latest Trends III IIII IIII IIII and Communication Technologies" Conducted by the IT Dept. during 04th-08th August 2014

Information Technology Department of Guru Nanak Dev Engineering College, Ludhiana conducted the weeklong series of lectures and hands-on practice sessions of Short Term Course (STC) on title "Latest Trends in Information and Communication Technologies". This STC was sponsored by Technical Education Quality Improvement Programme (TEQIP-II) cell of the Institute. The valediction programme of this course was organized in the seminar hall of the campus on 08th Aug. 2014 (Wed.). This programme was organized with the objective of sharing recent developments in the areas network security, bioinformatics, image processing, natural language processing, firewall implementation and configuration with practical demonstration. As many as 17 resource persons in this programme shared their views and further research areas among the participants

Dr. O.P. Gupta, Dy. Director, School of Electrical Engineering at Punjab Agriculture University Ludhiana was invited as chief guest of the valediction programme. In his speech, chief guest emphasised that awareness of technology trends in IT and ICT is the need of the hour, but at same time security of information transferred is important area of concern. He further elaborated that security measures can be implemented at the personal level by doing simple encryption of personal data by oneself. TEQIP-II coordinator, Dr. J.N.Jha mentioned the benefits as well as wastage of resources due to updation in technology every day.

Sh. Amolak Singh Kalsi, Technical Director & District Informatics Officer at National Informatics Centre, Jalandhar was invited as Chief Guest in the inauguration of the programme. Mr. Kalsi pointed out various innovative ideas implemented at the industry and government level for the concern of ICT. In the whole five day programme the academicians, software professional and researchers were invited to deliver the expert talk during the course. During this programme, Dr. Sarbjeet Singh, Associate Prof. from Panjab University Chandigarh elaborated the role of social media, mobility, analytics and cloud computing in the programme. Dr. Maninder Singh, Associate Prof. from Thapar University Patiala shared his views on social network analysis and big data deluge. Dr. Manpreet Singh from GNDEC Ludhiana explained the topic titled "Bioinformatics: From Evolution to Computation". Dr. Anjali Garg from GNIMT Ludhiana elaborated the Local and Global Feature based Descriptors for Shape based Image Retrieval. Mr. Amit Kamra from GNDEC Ludhiana presented new research ideas in the filed of biomedical imaging. Mr. Vipin Gupta from U-Net solution organized the hands on session on Firewall Implementation and Configuration and Public/ Private Key based Authentication using Secure Protocols like SSH, SFTP and HTTPS. Mr. Sanieev Kumar from DAV University Jalandhar and Dr. Parminder Singh from GNDEC Ludhiana delivered expert talk on Natural Language Processing with its Various Research Areas and Text to Speech Synthesis System respectively. Dr. Harish Kumar in his speech specified the role of Cyber Security and Information Retrieval.

Dr. K.S. Mann, HOD of IT Dept. and chief coordinator of this course presented the summary & feedback report of this short term course at valediction programme. He discussed the significance of these types of courses for faculties as well as researchers and congratulated the coordinators for organizing this STC. Participation Certificates were issued to 63 participants, which came from different regions of the country to attend this STC.

Dr. Kinn Jos (PANKAT SHAMBRE)
HOD(IT)

TEQIP-II SPONSORED

SHORT TERM COURSE ON LATEST TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGIES (04TH - 08TH OCTOBER, 2014)

		(04TI	H - 08TH OCTOBER,	2014)		
			SCHEDULE			
Day 1: 04th Octob	er, 2014 (Saturday)					
9:00am-9:30am Registration	10:30am-11:15am	11:15am-12:45pm	12:45pm-1:45pm	1:45pm-3:15pm	3:15pm-3:30pm	3:30pm-5:00pm
9:30am-10:30am Inauguration	Tea	Session - 1.1	Lunch	Session - 1.2	Tea	Session - 1.3
Chief Guest	Mr. Amolak Singh K	alsi	•	·		
		and District Information	s Officer, National I	nformatics Centre Ja	landhar	
Session - 1.1	Dr. Sarbjeet Singh UIET, Panjab Unive	rsity Chandigarh	Social Media, Mob	ility, Analytics and C	loud Computing	
Session - 1.2	Dr. Maninder Singh Thapar University, F	Patiala	Social Network An	alysis		
Session - 1.3	Dr. Maninder Singh Thapar University, F	Patiala	Big Data Deluge			
Session - 1.4 (5.00-5.30pm)	Discussion cum Fee	edback Session so as	to incorporate corr	ective measures/ su	ggesion for the Sho	rt Term Course
Day 2: 05th Octob	per, 2014 (Sunday)					
9:30am-11:00am	11:00am-11:15am	11:15am-12:45pm	12:45pm-1:45pm	1:45pm-3:15pm	3:15pm-3:30pm	3:30pm-5:00pm
Session - 2.1	Tea	Session - 2.2	Lunch	Session - 2.3	Tea	Session - 2.4
Session - 2.1	Mr. Harpreet Khatta Secujenius, Chandi		Information and No	etwork Security with	Practical Demonstra	ation
Session - 2.2	Mr. Kshitiz Secujenius, Chandi		Latest Trends of T	echnologies used fo	r Education with Pra	actical Demonstration
Session - 2.3	Mr. Pankaj Bhambri GNDEC, Ludhiana		Era of Bioinformat	ic Applications		
Session - 2.4	Dr. Manpreet Singh GNDEC, Ludhiana		Bioinformatics: Fro	om Evolution to Com	putation	
Day 3: 06th Octob	per, 2014 (Monday)					
9:30am-11:00am	11:00am-11:15am	11:15am-12:45pm	12:45pm-1:45pm	1:45pm-3:15pm	3:15pm-3:30pm	3:30pm-5:00pm
Session - 3.1	Tea	Session - 3.2	Lunch	Session - 3.3	Теа	Session - 3.4
Session - 3.1	Mr. Naveen Duhan PAU, Ludhiana Bioinformatics: A Step towards Innovation					
Session - 3.2	Dr. Parteek Bhatia Thapar University, F	Patiala	Data Mining with V	VEKA		
Session - 3.3	Dr. Anjali Garg GNIMT, Ludhiana		Local and Global Feature based Descriptor for Shape based Image Retrieval			
Session - 3.4	Mr. Amit Kamra GNDEC, Ludhiana		Biomedical Imagin	g and Computer Vis	ion	
Day 4: 07th Octob	per, 2014 (Tuesday)					
9:30am-11:00am	11:00am-11:15am	11:15am-12:45pm	12:45pm-1:45pm	1:45pm-3:15pm	3:15pm-3:30pm	3:30pm-5:00pm
Session - 4.1	Tea	Session - 4.2	Lunch	Session - 4.3	Теа	Session - 4.4
Session - 4.1	Mr. Vipin Gupta U-Net Solutions, Mo			tation and Configura	tion with Practical D	emonstration
Session - 4.2	Mr. Vipin Gupta U-Net Solutions, Mo	-	,	based Authentication	•	tocols like SSH,
Session - 4.3	Any Participant of the Course	•				h the theme of short
Session - 4.4	Mr. Sanjeev Kumar DAV University, Jala	andhar		Processing and its \	/arious Research A	reas
Day E. 0045- 0-7						
9:30am-11:00am	per, 2014 (Wednesda 11:00am-11:15am	11:15am-12:45pm	12:45pm 1:45pm	1:45pm-2:30pm		
Session - 5.1	Tea	Session - 5.2	12:45pm-1:45pm Valediction	Lunch		
Session - 5.1	Dr. Parminder Singl		Text to Speech Sy	<u> </u>		
Session - 5.2	GNDEC, Ludhiana Dr. Harish Kumar UIET, Panjab Unive	reity Chandigarh	Cyber Security and	d Information Retriev	ral	
Chief Guest	Dr. O.P. Gupta	of Info. Tech., PAU I	udhiana			
Venues	Dy. Director, Scribble	or inio. Tech., FAU I	_uuillaila			
Sessions	Consultancy Samin	ar Hall Teeting and C	Consultancy Cell			
Lunch		Consultancy Seminar Hall, Testing and Consultancy Cell Consultancy Hall, Testing and Consultancy Cell				
Tea						
	Consultancy Hall, Testing and Consultancy Cell					

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

List of Participants (Latest Trends in Information and Communication Technologies)

S.No.	Name	Designation	Affiliation
1	Ajay Shiv Sharma	Assistant Professor	GNDEC, LUDHIANA
2	Akshay Girdhar	Associate Professor	GNDEC, LUDHIANA
3	Amandeep Kaur	Assistant Professor	BHSBIET, LEHRAGAGA
4	Amardeep Singh	Application Developer	PAU, LUDHIANA
5	Amit Kamra	Assistant Professor	GNDEC, LUDHIANA
6	Angaddeep Singh	Lecturer	SRSGPC, LUDHIANA
7	Anil Kumar	Librarian	GNDEC, LUDHIANA
8	Anurag Sharma	Research Scholar	GNDEC, LUDHIANA
9	Arunjot Kaur	Assistant Professor	GNDEC, LUDHIANA
10	Bindia Tarika	Computer Programmer	GNDEC, LUDHIANA
11	Blossom	Assistant Professor	GNDEC, LUDHIANA
12	Charanjeev Kaur	Assistant Professor	DBU, MANDI GOBINDGARH
13	Deepika	Assistant Professor	LCET, LUDHIANA
14	Deepinder Kaur Dhaliwal	Assistant Professor	DBU, MANDI GOBINDGARH
15	Dipti Kunra	Assistant Professor	GNDEC, LUDHIANA
16	Gagandeep Kaur	Lecturer	BCET, LUDHIANA
17	Gaurav Tandon	Assistant Professor	DBU, MANDI GOBINDGARH
18	Gurdit Singh	Research Scholar	PECUT, CHANDIGARH
19	Gurpreet Kaur	Research Scholar	GNDEC, LUDHIANA
20	Gurpreet Singh	Assistant Professor	GGI, KHANNA
21	Gursharan Singh	Lecturer	BCET, LUDHIANA
22	Gurvir Singh	Research Scholar	GNDEC, LUDHIANA
23	Hanit Karwal	Assistant Professor	GGI, KHANNA
24	Harbhag Singh	Assistant Professor	GNDEC, LUDHIANA
25	Hardeep Singh Handa	IT Incharge	RELIANCE, LUDHIANA
26	Hardeep Singh Jawar	HOD	GNDPC, LUDHIANA
27	Harmanjeet Kaur	Research Scholar	GNDEC, LUDHIANA
28	Harminder Kaur	Research Scholar	GNDEC, LUDHIANA
29	Harmohan Singh Dhall	Assistant Professor	GNDEC, LUDHIANA
30	Harpreet Kaur Grewal	Associate Professor	GNDEC, LUDHIANA
31	Inderjeet Singh	Computer Programmer	GNDEC, LUDHIANA
32	Jagreet Kaur	Assistant Professor	PU, CHANDIGARH
33	Jappreet Kaur	Assistant Professor	GNDEC, LUDHIANA
34	Jasbir Singh Saini	Associate Professor	GNDEC, LUDHIANA
35	Jaspreet Kaur	Lecturer	LPU DEP CENTRE, LUDHIANA
36	Kamaldeep Arora	Assistant Professor	GGI, KHANNA
37	Kamaldeep Kaur	Assistant Professor	GNDEC, LUDHIANA
38	Kamaljit Kaur	Assistant Professor	GNDEC, LUDHIANA
39	Karamjit Singh	Lecturer	BCET, LUDHIANA
40	Kiran Jyoti	Assistant Professor	GNDEC, LUDHIANA
41	Kulvinder Singh Mann	Associate Professor	GNDEC, LUDHIANA
42	Kulwinder Singh	Assistant Professor	GGI, KHANNA
43	Lolita Singh	Assistant Professor	HJDITE, GUJRAT
44	Lovepreet Kaur Somal	Assistant Professor	GNDEC, LUDHIANA

45	Manmeet Kaur	Lecturer	SRSGPC, LUDHIANA
46	Manpreet Kaur Grewal	Assistant Professor	GNDEC, LUDHIANA
47	Manpreet Singh	Assistant Professor	GNDEC, LUDHIANA
48	Mohit Kumar	Lecturer	DBU, MANDI GOBINDGARH
49	Pankaj Bhambri	Assistant Professor	GNDEC, LUDHIANA
50	Parminder Kaur Wadhwa	Assistant Professor	GNDEC, LUDHIANA
51	Parminder Singh	Associate Professor	GNDEC, LUDHIANA
52	Prabhjot Kaur	Research Scholar	GNDEC, LUDHIANA
53	Priyanka Arora	Assistant Professor	GNDEC, LUDHIANA
54	Rajan Manro	Assistant Professor	DBU, MANDI GOBINDGARH
55	Randhir Singh	Assistant Professor	GNDEC, LUDHIANA
56	Raninder Kaur	Assistant Professor	GNDEC, LUDHIANA
57	Ranjodh Singh	Assistant Professor	DAV UNI., JALANDHAR
58	Saravpreet Kaur	Assistant Professor	LCET, LUDHIANA
59	Satwinderjit Kaur	Associate Professor	GNDEC, LUDHIANA
60	Shairy	Lecturer	LPU DEP CENTRE, LUDHIANA
61	Sukhjit Singh Sehra	Assistant Professor	GNDEC, LUDHIANA
62	Sumeet Kaur Sehra	Assistant Professor	GNDEC, LUDHIANA
63	Tanpreet Singh	Assistant Professor	AIT, GHARUAN



