

about SLIET, Longowal

Sant Longowal Institute of Engineering & Technology is a Deemed to be University, was established by MHRD, Government of India in 1991 to provide education in emerging areas of Science, Engineering and Technology. The institute caters to the technical manpower requirements at various levels by adopting a concept of modular system in imparting technical education with emphasis on practical training in industry. Mainly the study programs being currently include the courses viz. ICD (Integrated Certificate Diploma) course, undergraduate (B.E.) & postgraduate (M.Tech., M.Sc., MBA) courses and doctoral degrees (Ph.D.) in various branches of Engineering, Science and Technology.

About NIT, Uttarakhand

National Institute of technology, Uttarakhand is located in the hilly terrain of Srinagar Garhwal, Pauri, Uttarakhand. NIT Uttarakhand was established in 2009 under the Act of Parliament of India by the Ministry of Human Resource Development and designed with the status of Institute of National Importance". NIT Uttarakhand is functional from two campuses i.e. parent campus at Srinagar (Garhwal) and satellite campus at MNIT, Jaipur.

About the STTP

The main objective of this STTP is to provide a platform for enhancement of academic and professional learning where the participants would become familiarized about various techniques and tools used for characterization of materials meant for engineering applications as well as scientific research. This STTP is interdisciplinary in nature and is open to faculty members, research scholars,

working professionals from industry, and other R & D organizations etc. The experts from reputed institutes/organizations would share their expertise on various topics related to the theme of the STTP which broadly would include materials characterization by using XRD, Electron and Optical microscopy, Electrochemical techniques especially involving potentiostatic evaluation of different materials etc. Extensive tutorials, practicals as well as demonstrations sessions have been planned to meet the set forth objectives of this STTP.

The Resource Persons for the course will be highly experienced faculty members from reputed Institutes like IITs, Panjab University, Chandigarh, GNDU, NITs, IISERS, etc.

Venue

Sant Longowal Institute of Engg & Tech. Longowal, Sangrur-148106 (Punjab).

REGISTRATION FEE

Delegates from

1. Educational/ R& D organizations: Rs. 1000/-
 2. Industry/ other organizations: Rs. 1500/-
 3. Research Scholars/ students: Rs. 500/-
- Registration form along with registration fee is to be sent to Organizing secretary, (MCATRA-2019). Registration fee may be paid in the form of D.D. drawn in favor of "Director, SLIET" payable at Longowal.

Important dates:

Last date of registration: 20.06.2019
Confirmation of selection: 25.06.2019

Address for Correspondence

Dr. Damanjeet Singh, HoD (Chemistry)
SLIET, Longowal-148106 (Punjab)
Phone: 7986334721
E-mail: mcatra2019sliet@gmail.com
mmsinhaha2005@yahoo.co.in

TEQIP III Sponsored

One week

SHORT TERM TRAINING PROGRAMME

on

Material Characterization & Analytical Techniques for Research Applications

(MCATRA-2019) (July 1-5, 2019)

(Under Twinning Program)

at

SLIET, Longowal
Registration Form

Name: _____

Designation: _____

Field of specialization: _____

Name of the Institute/Organization: _____

E-mail: _____

Tel./Mobile No.: _____

Academic Qualification: _____

Teaching/ Professional experience: _____

Category : Academics /R&D Inst./Org. /
Industry/ Research Scholar/ student

(Kindly submit the proof of identity)
Accommodation required: Yes/No _____

Details of Bank Draft (Regn. Fee): Rs. _____
No. _____ Date _____

(In favor of "Director, SLIET" payable at Longowal)
Arrival Date: _____

Departure Date: _____

Place: _____

Date: _____

Signature of Applicant



Organizing Committee

Patron-in-Chief

Prof. S. K. Jain, Director (SLIET)
Prof. S. L. Soni, Director (NIT UK)

Patron

Prof. A. S. Arora, Dean (Academics)

Chairmen

Prof. M. M. Sinha, HoD (Physics)
Prof. Rajesh Kumar, HoD (ME)

Co-Chairmen

Dr. Jagtar Singh, Coordinator-TEQIP-III (SLIET)
Dr. Vinod Yadav, Coordinator-TEQIP (NIT UK)

Organizing Secretaries

Dr. Damanjeet Singh, HoD (Chemistry)
Dr. A. S. Shahi, Professor (ME)

Coordinator

Er. Anil Kumar Singla, AsP(ME)

Co-Coordiators

Dr. Himanshu Rani, AP (Chemistry)
Dr. Prabhdeep Kaur, AP (Physics)

Local Advisory Committee

Dr. J. S. Dhillon, Dean (FSW)
Dr. D. C. Saxena, Dean (SW)
Dr. Harish Kumar Chopra, Dean (P & D)
Dr. P. K. Singh, Dean (R & C)
Dr. A. Marwaha, HOD (ECE)
Dr. Major Singh, HOD (CSE)
Dr. P. S. Panesar, HOD (FET)
Dr. Parveen Kaur Khanna, HOD (M&H)
Dr. Jay Marwaha, HOD (EIE)
Dr. Gupta, HOD (Maths)

TEQIP III Sponsored
ONE WEEK
SHORT TERM TRAINING PROGRAM
ON
“Material Characterization &
Analytical Techniques for Research
Applications”
(Under Twinning Program)
(MCATRA-2019)
(July 1-5, 2019)



ORGANIZED JOINTLY BY:
Department of Physics, Chemistry and
Mechanical Engineering,
Sant Longowal Institute of Engineering &
Technology
(CFTI under MHRD, Govt. of India)
Longowal, Distt. Sangrur-148106 Punjab
& NIT, Uttarakhand

Department of Physics (SLIET)

The Department offers Ph.D. and M.Sc. in Physics and other basic courses on engineering physics, modern physics and materials science to students of all engineering trades at certificate, diploma and degree levels. Besides teaching, the faculty members are engaged in active research work in their respective fields of interest covering different areas such as Materials Science, Nuclear Physics, Atomic Physics and Condensed Matter Physics etc. and have collaboration with laboratory at National and International level.

Department of Chemistry (SLIET)

The Department offers core courses in chemistry for undergraduate B.E. students of Engineering and students of integrated certificate diploma besides offering a two years M.Sc. programme and Ph.D programme in Chemistry. The Department is committed to excellence in chemistry by establishing research programs for meeting scientific and technological challenges faced by the ever changing, science centered world of the 21st century.

Department of Mechanical Engg. (SLIET)

The department of Mechanical engineering offers Integrated Certificate-Diploma (ICD), Degree (B. Tech.) with specialization in Welding as well as Manufacturing, M. Tech. with specialization in Welding & Fabrication as well as Manufacturing systems, besides Ph. D. courses in the discipline of Mechanical engineering. The department hosts excellent research facilities of high standards which boost up the research environment in the department.

Location

The Sant Longowal Institute of Engg. & Tech. is situated at Longowal (Punjab) which is about 8 kms from Badbar, an important bus stops on Sangrur-Barnala Highway. The nearest railway stations are Sangrur (18km), Sunam (16km), Barnala (25km) & Dhuri (30km).

The Organizing Committee of MACTRA-2019
Solicit your benign presence on the occasion

of
Inaugural Ceremony

of the

TEQIP-III Sponsored STTP

On

Materials Characterization and Analytical Techniques for Research Application

on

Monday, July 01, 2019 at 11.30 AM

in the Computer Block Auditorium of the Institute

Prof. Neeraj Khare

Professor of Physics

Indian Institute of Technology, Delhi

has kindly consented to be the Chief Guest of the function

Prof. Shailendra Jain

Director

Sant Longowal Institute of Engineering and Technology, Longowal
will preside over the function

R.S.V.P.

Organizing Committee, MACTRA-2019



TEQIP -III Sponsored ONE WEEK STTP on
“Material Characterization & Analytical Techniques
for Research Applications”
(Under Twinning Program with NIT Uttarkhand)
(MCATRA-2019)
(July 1-5, 2019)



Sant Longowal Institute of Engineering and Technology
(Deemed University, Centrally Funded Technical Institute of Govt. of India)
Longowal, Distt. Sangrur-148106 (Punjab)

Patron-in-Chief

Prof. S. K. Jain,
Director (SLIET)
Prof. S. L. Soni,
Director (NIT UK)

Patron

Prof. A. S. Arora,
Dean (Academics)

Chairmen

Prof. M. M. Sinha,
HoD (Physics)
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Dr. Vinod Yadav,
Coordinator-TEQIP
(NIT UK)

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Dr. Damanjeet Singh,
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Dr. A. S. Shahi,
Professor (ME)

Coordinator

Er. Anil Kr. Singla,
AsP(ME)

Co-Coordiators

Dr. Himanshu Rani,
AP (Chemistry)
Dr. Prabhdeep Kaur,
AP (Physics)

To,
Prof. Neeraj Khare
Professor of Physics
Coordinator, NRF, IIT Delhi

Subject: Request for allowing participants of the course to visit NRF at IIT Delhi

Dear Sir,

Department of Physics, Chemistry & Mechanical Engineering department of Sant Longowal Institute of Engineering and Technology in collaboration with NIT Uttarakhand is organizing TEQIP-III sponsored One Week Short term training programme (STTP) on "Material Characterization & Analytical Techniques for Research Applications (MCATRA-2019) during 1-5 July, 2019 at Sant Longowal Institute of Engineering and Technology, Longowal (Punjab).

About fifty number of participants which includes faculty, research scholars and master's students from different part of India are attending this course.

I will highly appreciate if you could permit participants of this course to visit nanoscale research facility at IIT Delhi on 3rd July 2019 at around 12:00 noon to 4:00 PM. By visiting this facility, participants can have chance to learn and know about various characterization techniques for examining the nature of materials. This may lead to future collaborative research in the emerging area. I request you to kindly allow this visit and intimate me so that I can plan accordingly.

Looking forward for your positive response.

with best regards,

Yours sincerely

(Prof.M.M.Sinha)
Chairman, STTP

**TEQIP III Sponsored
One week
SHORT TERM TRAINING PROGRAMME**

**on
Material Characterization & Analytical Techniques for Research Applications (MCATRA-
2019) (July 1-5, 2019)
(Under Twinning Program)**

**at
SLIET, Longowal
STTP Tentative Programme-Schedule**

July 1, 2019

- 09:30 - 11:00am Registration**
- 11:00 - 11:30am Inaugural High Tea (Institute Guest House)
- 11:30 - 12:15 PM Inaugural Function (Auditorium, CSE Block)
- 12:00 - 01:30 PM Expert Talk by Professor Neeraj Khare, Professor, IIT Delhi
Topic of Talk: Characterization facilities at nanoscale Research Facility,
IIT Delhi -I
- 01:30 - 02:00 PM Lunch**
- 02:00 - 3:00 PM **Expert Talk by Professor Neeraj Khare, Professor, IIT Delhi**
(Venue: M-102, ME Block)
Topic of Talk: Characterization facilities at nanoscale Research Facility,
IIT Delhi -II
- 03:00 - 03:15 PM Teak Break
- 03:15 - 5:15 PM **Expert Talk by Dr. Sandeep Munjal, Project Scientist, IIT Delhi**
(Venue: M-102, ME Block)
Topic of Talk: XRD pattern: fingerprint of the crystalline substance

July 2, 2019

- 09:30 - 11:00 AM **Expert Talk by Dr. Ashavani Kumar, Professor, NIT Kurushetra**
(Venue: M-102, ME Block)
Topic of Talk: Microscopy for Materials-I
- 11:00 - 11:30am Tea break
- 11:30 - 01:00 PM **Expert Talk by Dr. Ashavani Kumar, Professor, NIT Kurushetra**
(Venue: M-102, ME Block)
Topic of Talk: Microscopy for Materials -II
- 01:00 - 02:00 PM Lunch**
- 02:00 - 5:00 PM **Expert Talk by Ananta K Chaudhary, Bruker Ind. Pvt. Ltd.**
Topic of Talk: XRD and its application -II

July 3, 2019

Visit to Nanoscale research facility at IIT Delhi.
(Bus will start 4:30 AM sharp from Guest house)

July 4, 2019

- 09:30 – 11:00 AM **Expert Talk by Dr. A S Shahi, Professor, SLIET Longowal**
(Venue: M-102, ME Block)
Topic of Talk: Material characterization of engineering alloys used for
Critical Applications
- 11:00 - 11:30am Tea break
- 11:30 – 01:00 PM **Expert Talk by Dr. Nand Dhir,**
(Venue: M-102, ME Block)
Topic of Talk: lecture on UV-VIS
- 01:00 – 02:00 PM Lunch**
- 02:00 – 3:30 PM **Expert Talk by Anand K Tyagi, Professor, SBS STC Ferozepur**
(Venue: M-102, ME Block)
Topic of Talk: Thermo-analytical investigation and charaterisation of
engineering Materials-I
- 03:30 – 03:45 PM Teak Break
- 03:45 – 05:15 PM **Expert Talk by Anand K Tyagi, Professor, SBS STC Ferozepur**
(Venue: M-102, ME Block)
Topic of Talk: Thermo-analytical investigation and charaterisation of
engineering Materials-II

July 5, 2019

- 09:00 – 11:00 AM **Expert Talk by Dr. S K Tripathi, Professor, PU Chandigarh**
(Venue: M-102, ME Block)
Topic of Talk: Characterization techniques for Nano materials -I
- 11:00 - 11:15AM Tea break
- 11:15 – 01:15 PM **Expert Talk by Dr. Harpreet Singh, Professor, IIT Ropar**
(Venue: M-102, ME Block)
Topic of Talk: Use of Scanning Electron Microscopy to Characterize
Thick Copper Coatings Deposited on SS316L Steel
- 01:15 – 02:30 PM Lunch**
- 02:30 – 4:00 PM **Expert Talk by Dr. Ashok K Mishra, Professor IIT Madras**
(Venue: M-102, ME Block)
Topic of Talk: Optical Methods for Materials Characterization
- 04:00 – 05:00 PM **Valedictory Function followed by Tea**

Subject: Various committees for MCATRA-2019.

The following committees are proposed for execution of various activities related to STTP on "Materials characterization & Analytical Techniques for research Application" during 1-5 July 2019 conference to be organized the collaboration of Mechanical Engineering, Chemistry and Physics Departments of the institute.

1. Registration Committee:

- a) Dr. Prabhdeep Kaur, AP (Physics)- Convener
- b) Mr. Jonny Singla, AP (ME)
- c) Ms. Arshpreet Kaur, RS (Chemistry)
- d) Ms. Gagandeep Kaur, RS (Chemistry)

2. Hospitality & Reception Committee:

- a) Dr. A.S. Shahi, Prof (ME) - Convener
- b) Dr. Hemant Kumar, AP (Chemistry)
- c) Mr. Gurjit Singh, LA (Chemistry)
- d) Mr. Rajeev Bagoria, AP (Chemistry)
- e) Ms. Jasneet Rana, RS (Chemistry)
- f) Ms. Madhvi, RS (Chemistry)

3. T.A./D.A. for chief guest/invited speakers etc.

- a) Mr. Anuj Bansal, AP (ME)- Convener
- b) Mr. Surinder Kumar- AP (ME)
- c) Mr. Sanjay Gupta, Jr. Accountant
- d) Mr. Sukhdev Singh, LA (Physics)

4. Purchase committee:

- a) Dr. Himanshu Rani, AP (Chemistry)- Convener
- b) Dr. Hemant Kumar, AP (Chemistry)
- c) Mr. Gurjit Singh, LA (Chemistry)

5. Stage coordination committee:

- a) Dr. Himanshu Rani, AP (Chemistry)- Convener
- b) Mr. Rajeev Bagoria, AP (Chemistry)
- c) Mr. Inder Pal, Tech. (ME)
- d) Ms. Megha Goyal, RS (Physics)
- e) Ms. Poonam, RS (Chemistry)

Submitted for approval please.

Chairman

mi
25/4/19

Dear (Acad)

Damanjeet Singh
30/4/19
(Dr. Damanjeet Singh)
Organizing secretary

Report of STTP/Workshop/Conference Conducted Under TEQUIP-III

1. Name of the Department : Physics, Chemistry & Mech. Engineering
2. Title of Programme : Materials Characterization & Analytical
Techniques for Research Applications (MCATRA-2019)
3. Name of Coordinator : Er. Anil Singla
4. Duration(Dates) : 01-05 July, 2019
5. Day wise Schedule : Annexure – 'A' Attached
6. Details of Experts/Keynote Speakers : Annexure – 'B' Attached

S.No.	Name of Expert with Designation	Organization	No. of Lectures Delivered/ Hours

7. Details of Participants:

(a) No. of Participants : 52

	Faculty	Research Scholars	Industry Participants	Total
External	13	17	Nil	30
Internal	01	21	Nil	22

(b) List of registered participants duly signed by concerned HODs: Annexure 'C' Attached
(Annexure may be attached)

(c) Photocopy of the daily attendance duly signed by HODs: Annexure – 'D' Attached
(Annexure may be attached)

8. Registration Fee:

(a) Total registration fee collected from participants: Rs. 24,000/-

(b) Amount of registration fee deposited in Faculty and Development Fund: NIL

Account No. 3523522568 (established under Four Fund of TEQIP)

Receipt No. _____ Date _____ Amount _____

9. Expenditure Details: (In Rs.)

Head of Expenditure	Sanctioned	Actual Expenditure
TA/DA for experts	Rs. 1,50,000/-	Rs. 21985/-
Honorarium for experts	+ Rs. 24000 (generated from registration Fee) + Rs. 7000/-	Rs. 35,000/-
Hospitality	(Sponsorship from Central Bank of India towards mementos) =	Rs. 87,632/-
Registration Kit	Rs. 181,000/-	Rs. 10,780/-
Course Material(Preferably in CD)		Nil
Printing		Rs. 5,630/-
Misc. etc.		Rs. 28,960/-
Total		Rs. 1,89,987/-

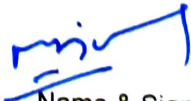
10. **Summary of the feedback taken from the participants:** (Annexure may be attached):

The participants very much appreciated that all the speakers were knowledgeable and experts in their respective fields. The participants mentioned that visit to Nanoscale Research facility at IIT Delhi was very informative and fruitful for the research purpose. However, many of the participants insisted on more hands on training sessions in the in their feedback.

11. **Outcome of the program on the basis of brainstorming session:**

The STTP was very helpful for young scientists. Candidates got exposure to different characterisation techniques after attending this program. One-day visit to Nanoscale Research facility at IIT Delhi was very helpful to get the demonstration of different state of the art equipment's use for material characterisation these days. A visit to the central facility at SLIET was also arranged, which helped candidates from outside the SLIET to get knowledge about the research activities and opportunities at SLIET.

Name & Signature of Coordinator
(Er. Anil Singla)


Name & Signature of HOD
(Dr. M M Sinha)

List of registered candidates for MCA TRA-2019 during 01-05 July 2019

Sr. No.	Name of participants	Affiliation	Email address	Status Student/faculty	Amount of Registrati on fee	Mode of payment DD/Cash)	Accomm odation required	Schedule of arrival & departure		Signature
								Arrival	Departure	
1.	Dr. Devinder Singh	Sri Guru Teg Bahadur Khalsa college, Sri Anandpur Sahib	drdevinderphy sics@gmail.com	Faculty	1000	DD	Yes	30.06.19	05.07.19	
2.	Dr. Amrit Singh	Sri Guru Teg Bahadur Khalsa college, Sri Anandpur Sahib	amritslicet@gmail.com	Faculty	1000	DD	Yes	30.06.19	05.07.19	
3.	Dr. Rupinderpal Singh	Sri Guru Teg Bahadur Khalsa college, Sri Anandpur Sahib	nagararupinderpal@gmail.com	Faculty	1000	DD	Yes	30.06.19	05.07.19	
4.	Abhinav Soni	Govt. Polytechnic College, Bathinda	aruhani80@gmail.com	Faculty	1000	DD	Yes	01.07.19	05.07.19	
5.	Dr. Ritika Sachdeva	SSD Girls College, Bathinda	Ritika.sachdeva21@gmail.com	Faculty	1000	DD	Yes	01.07.19	05.07.19	
6.	Avtar Singh	Yadavindra College of engineering, Punjabi University, Guru Kashi Campus, Talwandi Sabo	avtardhanjal@gmail.com	Faculty	1000	Cash	Yes	01.07.19	05.07.19	
7.	Arvind Tiwari	Mechanical Engg. Department, RKGIT, Ghaziabad	tarvind87@gmail.com	Faculty	1000		Yes	01.07.19	05.07.19	
8.	Shrikant Bhardwaj	Mechanical Engg. Department, RKGIT, Ghaziabad	shrikantabes@gmail.com	Faculty	1000		Yes	01.07.19	05.07.19	
9.	Dr. Inderpal	DM College Moga	Inderpal.hadro	faculty	1000	Cash	No	01.07.19	05.07.19	

	Singh		ns@gmail.com						
10.	Dr. Karamjit Singh	Punjabi University, Patiala	dhaiwalkaramjit@gmail.com	Faculty	1000	DD	No	01.07.19	05.07.19
11.	Dr. Anju Saini	YCoE, Punjabi University, Patiala	anjusaini04@yahoo.co.in	Faculty	1000		Yes	01.07.19	05.07.19
12.	Dr. Nidhi Sharotri	Sri Sai University, Palampur	nidhisiet1@gmail.com	Faculty	1000		Yes	01.07.19	05.07.19
13.	Dr. Paramjeet Kaur	DAV Bathinda	paramsidhu22@gmail.com	Faculty	1000		Yes	01.07.19	05.07.19
14.	Dr. Priti Bansal	YCoE, Punjabi University, Patiala	preet2aanand@yahoo.co.in	Faculty	1000		Yes	01.07.19	05.07.19
15.	Akash Kumar	Soft Matter Physics, AMU, Aligarh	akashphm007@gmail.com	R/S (student)	500	DD	Yes	30.06.19	06.07.19
16.	Depanshu Varshney	Soft Matter Physics, AMU, Aligarh	depanshuk.l.j.1993@gmail.com	R/S (student)	500	DD	Yes	30.06.19	06.07.19
17.	Ariba Parveen	Soft Matter Physics, AMU, Aligarh	aribaahmad27@gmail.com	R/S (student)	500	DD	Yes	30.06.19	06.07.19
18.	Aditi Sharma	Central University of Himachal Pradesh Dharamshala(HP)	sharmaarpit1911@gmail.com	R/S (student)	500	DD	Yes	30.06.19	05.07.19
19.	Mr. Nagayya C Raghaji	Dr. B. A. M. University Aurangabad	ncraghoji@gmail.com	R/S (student)	500	DD	Yes	30.06.19	05.07.19
20.	Rahul Gupta	TJET, Patiala	rahulsiect2008@gmail.com	R/S (student)	500	DD	No	01.07.19	05.07.19
21.	Harshdeep Kaur	PAU Ludhiana	harshdeepkaur850@gmail.com	R/S (student)	500	DD	No		
22.	Shiwani Kalita	Central University of Himachal Pradesh	shivanikalita786@gmail.com	R/S (student)	500		No	01.07.19	05.07.19
23.	Nitika Devi	Central University of	nitikal19967@gmail.com	R/S	500		No	01.07.19	05.07.19

		Himachal Pradesh	gmail.com	(student)						
24.	Mr. Vivek Bahuguna	NIT Utrakhand		R/S (student)			Yes	01.07.19	05.07.19	
25.	Mr Adersh Chaturvedi	NIT Utrakhand		M.Tech. (student)			Yes	01.07.19	05.07.19	
26.	Mr. Nishu Giri	NIT Utrakhand		M.Tech. (student)			Yes	01.07.19	05.07.19	
27.	Tanvi Sahni	PAU, Ludhiana	tanvisahni1994@gmail.com	R/S (student)	500		Yes	01.07.19	05.07.19	
28.	Jaspreet Kaur Grewal	PAU, Ludhiana	Gjaspreet55@yahoo.com	R/S (student)	500		Yes	01.07.19	05.07.19	
29.	Manpreet Kaur	PAU Ludhiana	Manpreetubhi27@gmail.com	R/S (student)	500		Yes	01.07.19	05.07.19	
30.	Manmeet Kaur	PAU Ludhiana	manmeetgiu2@yahoo.com	R/S (student)	500		Yes	01.07.19	05.07.19	
31.	Manjinder Kaur	PAU Ludhiana	kharamanjinder@gmail.com	R/S (student)	500		Yes	01.07.19	05.07.19	
32.	Harpreet Kaur	IK Gujral PTU Jalandhar	harpreetk12@gmail.com	R/S (student)	500	DD	No	01.07.19	05.07.19	
33.	Ramaneek Sidhu	PAU Ludhiana	ramaneeksidhu23@gmail.com	(student)	500	DD	No	01.07.19	05.07.19	
34.	Hardeep Sidhu			(student)	500	DD		01.07.19	05.07.19	
35.	Komal Pandey	PAU Ludhiana	komalpandey756@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
36.	Varinder Kumar	PAU, Ludhiana	kumar.varinder57@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
37.	Roopanshi	PAU, Ludhiana	ringjimgoyal@gmail.com	(student)	500	DD	yes	01.07.19	05.07.19	
38.	Jasleen Kaur	PAU Ludhiana	jasleenkaur7500@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
39.	Prianbidh	PAU Ludhiana	thakurkaran846@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	

40.	Priya Kapoor	PAU Ludhiana	goodluckpriya1997@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
41.	Palvi	PAU Ludhiana	rawapalvi@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
42.	Rupinder Kaur	PAU Ludhiana	krupinder472@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
43.	Mansi Goyal	PAU Ludhiana	mansigoyal861@gmail.com	(student)	500	DD	No	01.07.19	05.07.19	
44.	Harneet Kaur	PAU Ludhiana	Harneetmann0001@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
45.	Puneet Kaur	PAU Ludhiana	puneetkaur1166@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
46.	Isha Dudeja	PAU Ludhiana	ishadudeja275@gmail.com	(student)	500	DD	yes	01.07.19	05.07.19	
47.	Vishaldeep Kaur	PAU Ludhiana	Vdeep075@gmail.com	(student)	500	DD	Yes	01.07.19	05.07.19	
48.	Gaganjit Kaur Sidhu	PAU, Ludhiana	sidhugaganjit@gmail.com	(student)	500	DD	No	01.07.19	05.07.19	
49.	Dr. Jaspal Gill	Dept. of Mechanical Engg., SLIET, Longowal	jsgillsliet@yahoo.co.in	Faculty			No	01.07.19	05.07.19	
50.	Mr Rakesh Kumar	Dept. of Mechanical Engg., SLIET, Longowal		Faculty			No	01.07.19	05.07.19	
51.	Pardeep Saini	Dept. of Mechanical Engg., SLIET, Longowal	pardeepsainisliet@gmail.com	R/S (student)			No	01.07.19	05.07.19	
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60.	Dr. Payal malik	Dept. of Chemistry Engg., SLIET, Longowal		Faculty	No	01.07.19	05.07.19
61.	Dr. Hemant Kumar	Dept. of Chemistry Engg., SLIET, Longowal		Faculty	No	01.07.19	05.07.19
62.	Mr. Anuj Bansal	Dept. of Mechanical Engg., SLIET, Longowal		Faculty	No	01.07.19	05.07.19
63.	Mr. Jhony Singla	Dept. of Mechanical Engg., SLIET, Longowal		Faculty	No		
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Poster of MCATRA 2019 during the July 1-5, 2019



Photo of the participant who attended the Short-Term Training Program



Photo of the participant who attended the Short-Term Training Program



Photo of the participant who attended the Short-Term Training Program



Photo of the participant who attended the Short-Term Training Program



Photo of the participant visit at IIT Delhi as part of STTP



Photo of token of love to External Expert



Photo of token of love to External Expert