

Criterion No: 2.3.1

Criterion Details: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.

S. No.	Particulars	Annexure No.
1.	Sample Internship Certificates	Annexure - I
2.	Sample Project Certificates	Annexure - II
3.	Guest Lecture seminars and Workshops	Annexure - III
4.	Experiential Learning and Industrial Visit, Educational Tours	Annexure - IV
5.	Learning through Extension activities: Tree Plantation, Blood Donation, Sawach Bharat Abhiyan, Voter Awareness	Annexure - V
6.	Teaching Through Case Studies	Annexure - VI
7.	Club Activities	Annexure - VII

G.S.Tyagi
Director
Tula's Institute, Dehradun

Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:

- To promote intellectual and skilled human capital generation employment and entrepreneurship.
- To be educational centre of excellence of multi ethnicity and diversity.
- To establish as technology driven teaching learning institution.
- To provide world class platform for research and innovation.
- To inculcate social, environmental, heritage values.

Annexure – I

Sample Internship Certificates


G. S. Tuli
Director
Tula's Institute, Dehradun

TULAS INSTITUTE, DEHRADUN			
DEPARTMENT OF MECHANICAL ENGINEERING			
INTERNSHIP / SUMMER TRAINING DETAILS			
MECHANICAL IV YEAR			
S.N.O.	Roll Number	Name of Student	Company Name
1	180120104001	Adarsh Gautam	Uttarakhand Transport Corporation
2	180120104002	Amodh Kushwaha	Shree Jalapa Devi Auto Works
3	180120104003	Anubhaw Singh	Aarti Steels Limited
4	180120104004	Ayush Prakash Dikshit	Aarti Steels Limited
5	180120104005	Bhushan pal	Shree Jalapa Devi Auto Works
6	180120104006	Bhupatinath	Shree Jalapa Devi Auto Works
7	180120104007	Binod Yadav	Shree Jalapa Devi Auto Works
8	180120104008	Mohith Kokkirala	Uttarakhand Transport Corporation
9	180120104009	Prashant	Shreeji Packaging & Logistics Services
10	180120104010	Rahul tanti	Uttarakhand Transport Corporation
11	180120104011	Ranjan Gupta	Shree Jalapa Devi Auto Works
12	180120104012	Ritu Raj Singh	Aarti Steels Limited
13	180120104013	Rohan Rana	Uttarakhand Transport Corporation
14	180120104014	Sabir Ansari	Shree Jalapa Devi Auto Works
15	180120104015	Sachin Kumar	Shreeji Packaging & Logistics Services
16	180120104016	Sagar Chaudhary	Shreeji Packaging & Logistics Services
17	180120104017	Sajan Kumar Singh	Shree Jalapa Devi Auto Works
18	180120104018	Saurabh Pandey	Aarti Steels Limited
19	690120104002	Chetan soni	Uttarakhand Transport Corporation
20	690120104003	Giken karga	Uttarakhand Transport Corporation
21	690120104004	Manjil Subba	Shreeji Packaging & Logistics Services
22	690120104005	Prateek Thapa	Aarti Steels Limited
23	690120104006	Rahul Negi	Uttarakhand Transport Corporation

JL
2009
Department of Mechanical Engineering
Tula's Institute, Dehradun


 Director
 Tula's Institute, Dehradun



Uttarakhand Transport Corporation

A Government of Uttarakhand Undertaking

Dated:- 10/12/2021

#CERTIFICATE#

Certified that Adarsh Gautam is a student of Tulas Institute ,Dhoolkot, PO-selaqui,Chakrata road dehradun has undertaken mechanical engineering training in the divisional workshop UTC w.e.f. 8/11/2021 to 10/12/2021

He was remain present during the training period.

He has completed his training quiet successfully and his behaviour and conduct remain satisfactory during this period.

I wish all success in his career.

Tula's Institute
Director
Dehradun

Teekaram Aditya

Asst. Divisional Manager(Tech)

मानव संसाधन विभाग
टेक्निकल डीभेस विभाग
Divisional Manager(Technical),
UTTARAKHAND TRANSPORT CORPORATION,
Dehradun.



श्री जालपा देवी अटो वर्क्स
Shree Jalapa Devi Auto Works
(Authorised Service Center of Sipordi Trading Private Limited)
Sitapalla, Kathmandu, Nepal. Tel. +977-1-4281718

Date :- 02/12/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr Amodh Kushwaha of Tula's Institute, Dehradun India has completed attachment from 03/11/2021 to 02/12/2021 in customer care CV II department at Sitapalla, Kathmandu.

We wish him all the best in his future endeavours.

Kedar Theng

Manager-Training

Director
Tula's Institute, Dehradun



AARTI STEELS LIMITED

STEEL WIRE DIVISION

Works : FOCAL POINT, LUDHIANA-141010 (INDIA)

Date:- 20/12/2021

TO WHOM IT MAY CONCERN

It is certified that Mr Anubhaw Sinha has undergone training in our organization from 15th November to 20th December 2021.

During the period we found him very punctual sincere and very cooperative nature.

We wish him all the best in his future career.

For AARTI STEELS LTD.

(Steel wire Division)

Shubinder Moudgil

Asst. Manager HR.

Director
Tula's Institute, Dehradun



AARTI STEELS LIMITED

STEEL WIRE DIVISION

Works : FOCAL POINT, LUDHIANA-141010 (INDIA)

Date:- 20/12/2021

TO WHOM IT MAY CONCERN

It is certified that Mr Ayush Prakash Dikshit has undergone training in our organization from 15th November to 20th December 2021.

During the period we found him very punctual sincere and very cooperative nature.

We wish him all the best in his future career.

For AARTI STEELS LTD.

(Steel wire Division)

Shubinder Moudgil

Asst. Manager HR.

Shub

Chetan
Director
Tula's Institute, Dehradun



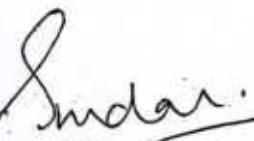
श्री जालपा देवी अटो वर्क्स
Shree Jalapa Devi Auto Works
(Authorised Service Center of Sipardi Trading Private Limited)
Sitapalla, Kathmandu, Nepal. Tel. +977-1-4281718

Date :- 02/12/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr Bhushan Pal of Tula's Institute, Dehradun India has completed attachment from 03/11/2021 to 02/12/2021 in customer care CV II department at Sitapalla, Kathmandu.

We wish him all the best in his future endeavours.


Kedar Theng

Manager-Training


Director
Tula's Institute, Dehradun



श्री जालपा देवी अटो वर्क्स
Shree Jalapa Devi Auto Works
(Authorised Service Center of Sipardi Trading Private Limited)
Sitapalla, Kathmandu, Nepal. Tel. +977-1-4281718

Date :- 02/12/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr Bhupatinath of Tula's Institute, Dehradun India has completed attachment from 03/11/2021 to 02/12/2021 in customer care CV II department at Sitapalla, Kathmandu.

We wish him all the best in his future endeavours.

Kedar Theng

Manager-Training

Director
Tula's Institute, Dehradun



श्री जालपा देवी अटो वर्क्स
Shree Jalapa Devi Auto Works
(Authorised Service Center of Sipardi Trading Private Limited)
Sitapalla, Kathmandu, Nepal. Tel. +977-1-4281716

Date :- 02/12/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr Binod Yadav of Tula's Institute, Dehradun India has completed attachment from 03/11/2021 to 02/12/2021 in customer care CV II department at Sitapalla, Kathmandu.

We wish him all the best in his future endeavours.

Kedar Theng

Manager-Training

Binod Yadav
Director
Tula's Institute, Dehradun



Uttarakhand Transport Corporation

A Government of Uttarakhand Undertaking

Dated:- 10/12/2021

#CERTIFICATE#

Certified that Mohith Kokkirala is a student of Tulas Institute ,Dhoolkot, PO-selaqui,Chakrata road dehradun has undertaken mechanical engineering training in the divisional workshop UTC w.e.f. 8/11/2021 to 10/12/2021

He was remain present during the training period.

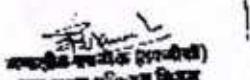
He has completed his training quiet successfully and his behaviour and conduct remain satisfactory during this period.

I wish all success in his career.


Director
Tula's Institute, Dehradun

Teekaram Aditya

Asst. Divisional Manager(Tech)


उत्तराखण्ड राज्य सरकार
Divisional Manager(Technical),
UTTARAKHAND TRANSPORT CORPORATION,
Dehradun.

Shreeji Packaging & Logistics Services



Head Office : Plot No. 252, Sector 12-B, Gandhidham-370201, Gujarat, India.

Ph.: 02836-221292, 232444, 220223 Fax : 02836-230444, 239879

Factory: Plot No. 8, Sector-1A, Integrated Industrial Estate, Ranipur, HARIDWAR 249 403
Uttarakhand, India, Phone : 01334 - 234454/309607, Fax : 01334- 230860, Email : shreejihrd@sancharnet.in

Date:- 15/12/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr Prashant has undergone training in our organization from 10 November to 15 December 2021

During his training period he got exposure above operating the Machines and related works.

We found him sincere hard working in his assignments.

We wish all success in his future Endeavour.

For Shreeji Packaging & Logistic Services

Authorised Signatory

Director
Tula's Institute, Dehradun



Uttarakhand Transport Corporation

A Corporation of Uttarakhand Government

Dated:- 10/12/2021

#CERTIFICATE#

Certified that Ranul tanti is a student of Tulas Institute ,Dhoolkot, PO-selaqui,Chakrata road dehradun has undertaken mechanical engineering training in the divisional workshop UTC w.e.f. 8/11/2021 to 10/12/2021

He was remain present during the training period.

He has completed his training quiet successfully and his behaviour and conduct remain satisfactory during this period.

I wish all success in his career.

Teekaram Aditya

Asst. Divisional Manager(Tech)

मानव संस्करण
प्रशिक्षण विभाग
Divisional Manager(Technical)
UTTARAKHAND TRANSPORT CORPORATION,
Dehradun.

Director
Tulas Institute, Dehradun



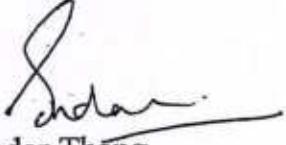
श्री जालपा देवी अटो वर्क्स
Shree Jalapa Devi Auto Works
(Authorised Service Center of Sipordi Trading Private Limited)
Sitapalla, Kathmandu, Nepal. Tel. +977-1-4281718

Date :- 02/12/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr Ranjan Gupta of Tula's Institute, Dehradun India has completed attachment from 03/11/2021 to 02/12/2021 in customer care CV II department at Sitapalla, Kathmandu.

We wish him all the best in his future endeavours.


Kedar Theng

Manager-Training


Director
Tula's Institute, Dehradun



AARTI STEELS LIMITED

STEEL WIRE DIVISION

Works : FOCAL POINT, LUDHIANA-141010 (INDIA)

Date: 20/12/2021

TO WHOM IT MAY CONCERN

It is certified that Mr Rituraj Singh has undergone training in our organization from 15th November to 20th December 2021.

During the period we found him very punctual sincere and very cooperative nature.

We wish him all the best in his future career.

For AARTI STEELS LTD.

(Steel wire Division)

Shubinder Moudgil

Asst. Manager HR.

Diploma in Electrical Engineering
Tula's Institute, Dehradun

AM Director
Tula's Institute, Dehradun



Dated:- 10/12/2021

#CERTIFICATE#

Certified that Rohan Rana is a student of Tulas Institute ,Dhoolkot, PO-selaqui,Chakrata road dehradun has undertaken mechanical engineering training in the divisional workshop UTC w.e.f. 8/11/2021 to 10/12/2021

He was remain present during the training period.

He has completed his training quiet successfully and his behaviour and conduct remain satisfactory during this period.

I wish all success in his career.


Tula's Institute, Dehradun
Director

Teekaram Aditya

Asst. Divisional Manager(Tech)


Div. Manager (Technical)
UTTARAKHAND TRANSPORT CORPORATION,
Dehradun.



श्री जालपा देवी अटो वर्क्स
Shree Jalapa Devi Auto Works
(Authorised Service Center of Siperdi Trading Private Limited)
Sitapalla, Kathmandu, Nepal. Tel. +977-1-4281718

Date :- 02/12/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr Sabir Ansari of Tula's Institute, Dehradun India has completed attachment from 03/11/2021 to 02/12/2021 in customer care CV II department at Sitapalla, Kathmandu.

We wish him all the best in his future endeavours.

Kedar Theng

Manager-Training

CMJ
Director
Tula's Institute, Dehradun

Shreeji Packaging & Logistics Services



Head Office : Plot No. 252, Sector 12-B, Gandhidham-370201, Gujarat, India.

Ph.: 02836-221292, 232444, 220223 Fax : 02836-230444, 239879

Factory: Plot No. 8, Sector-1A, Integrated Industrial Estate, Ranipur, HARIDWAR 249 403
Uttarakhand, India, Phone : 01334 - 234454/309607, Fax : 01334- 230860, Email : shreejihrd@sancharnet.in

Date: 15/12/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr Sachin Kumar has undergone training in our organization from 10 November to 15 December 2021

During his training period he got exposure above operating the Machines and related works.

We found him sincere hard working in his assignments.

We wish all success in his future Endeavour.

For Shreeji Packaging & Logistic Services

Authorised Signatory

Director
Tula's Institute, Dehradun

Shreeji Packaging & Logistics Services



Head Office : Plot No. 252, Sector 12-B, Gandhidham-370201, Gujarat, India.

Ph.: 02836-221292, 232444, 220223 Fax : 02836-230444, 239879

Factory : Plot No. 8, Sector-1A, Integrated Industrial Estate, Ranipur, HARIDWAR 249 403

Uttaranchal, India, Phone : 01334 - 234454/309607, Fax : 01334- 230860, Email : shreejihrd@sancharnet.in

Date:- 15/12/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr Sagar Chaudhary has undergone training in our organization from 10 November to 15 December 2021

During his training period he got exposure above operating the Machines and related works.

We found him sincere hard working in his assignments.

We wish all success in his future Endeavour.

For Shreeji Packaging & Logistic Services

Authorised Signatory

Director
Tula's Institute, Dehradun



श्री जालपा देवी अटो वर्क्स
Shree Jalapa Devi Auto Works
(Authorised Service Center of Slipardi Trading Private Limited)
Sitapalla, Kathmandu, Nepal. Tel. +977-1-4281716

Date :- 02/12/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr Sajan Kumar Singh of Tula's Institute, Dehradun India has completed attachment from 03/11/2021 to 02/12/2021 in customer care CV II department at Sitapalla, Kathmandu.

We wish him all the best in his future endeavours.

Kedar Theng

Manager-Training

Director
Tula's Institute, Dehradun



ISO/TS 16949 CERTIFIED COMPANY

AARTI STEELS LIMITED

STEEL WIRE DIVISION

Works : FOCAL POINT, LUDHIANA-141010 (INDIA)

Date:- 20/12/2021

TO WHOM IT MAY CONCERN

It is certified that Mr Saurabh Pandey has undergone training in our organization from 15th November to 20th December 2021.

During the period we found him very punctual sincere and very cooperative nature.

We wish him all the best in his future career.

For AARTI STEELS LTD.

(Steel wire Division)

Shubinder Moudgil

Asst. Manager HR.

Director
Tula's Institute, Dehradun



Dated:- 10/12/2021

#CERTIFICATE#

Certified that Chetan soni is a student of Tulas Institute ,Dhoolkot, PO-selaqui,Chakrata road dehradun has undertaken mechanical engineering training in the divisional workshop UTC w.e.f. 8/11/2021 to 10/12/2021

He was remain present during the training period.

He has completed his training quiet successfully and his behaviour and conduct remain satisfactory during this period.

I wish all success in his career.


Tula's Institute
Director, Dehradun

Teekaram Aditya

Asst. Divisional Manager(Tech)


TEEKARAM ADITYA (Signature)
Asst. Divisional Manager
Divisional Manager(Technical)
UTTARAKHAND TRANSPORT CORPORATION,
Dehradun.



Dated:- 10/12/2021

#CERTIFICATE#

Certified that Giken karga is a student of Tulas Institute ,Dhoolkot, PO-selaqui,Chakrata road dehradun has undertaken mechanical engineering training in the divisional workshop UTC w.e.f. 8/11/2021 to 10/12/2021

He was remain present during the training period.

He has completed his training quiet successfully and his behaviour and conduct remain satisfactory during this period.

I wish all success in his career.


Tula's Institute
Director, Dehradun

Teekaram Aditya

Asst. Divisional Manager(Tech)


मानव संसाधन (टेक्निकल)
उत्तराखण्ड ट्रांसपोर्ट कॉर्पोरेशन
Divisional Manager(Technical)
UTTARAKHAND TRANSPORT CORPORATION,
Dehradun.

Shreeji Packaging & Logistics Services



Head Office : Plot No. 252, Sector 12-B, Gandhidham-370201, Gujarat, India.

Ph.: 02836-221292, 232444, 220223 Fax : 02836-230444, 239879

Factory : Plot No. 8, Sector-1A, Integrated Industrial Estate, Ranipur, HARIDWAR 249 403

Uttarakhand, India, Phone : 01334 - 234454/309607, Fax : 01334- 230860, Email : shreejihrd@sancharnet.in

Date:- 15/12/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr Manjil Subba has undergone training in our organization from 10 November to 15 December 2021

During his training period he got exposure above operating the Machines and related works.

We found him sincere hard working in his assignments.

We wish all success in his future Endeavour.

For Shreeji Packaging & Logistic Services

Authorised Signatory

Director
Tula's Institute, Dehradun



ISO 9001 CERTIFIED COMPANY

AARTI STEELS LIMITED

STEEL WIRE DIVISION

Works : FOCAL POINT, LUDHIANA-141010 (INDIA)

Date:- 20/12/2021

TO WHOM IT MAY CONCERN

It is certified that Mr Prateek Thapa has undergone training in our organization from 15th November to 20th December 2021.

During the period we found him very punctual sincere and very cooperative nature.

We wish him all the best in his future career.

For AARTI STEELS LTD.

(Steel wire Division)

Shubinder Moudgil

Asst. Manager HR.

Director
Tula's Institute, Dehradun



Dated:- 10/12/2021

#CERTIFICATE#

Certified that Rahul Negi is a student of Tulas Institute ,Dhoolkot, PO-selaqui,Chakrata road dehradun has undertaken mechanical engineering training in the divisional workshop UTC w.e.f. 8/11/2021 to 10/12/2021

He was remain present during the training period.

He has completed his training quiet successfully and his behaviour and conduct remain satisfactory during this period.

I wish all success in his career.


Tula's Institute
Director
Dehradun

Teekaram Aditya

Asst. Divisional Manager(Tech)


उत्तराखण्ड राज्य सरकार
उत्तराखण्ड परिवहन बोर्ड
Divisional Manager(Technical)
UTTARAKHAND TRANSPORT CORPORATION,
Dehradun.

DEPARTMENT OF MECHANICAL ENGINEERING
INTERNSHIP/SUMMER TRAINING DETAILS
MECHANICAL III YEAR

S.NO.	Roll Number	Name of Student	Company Name
1	190120104001	Adarsh kumar	Remark Skill Education
2	190120104002	Aditya utkarsh	Autopark Four wheeler Solutions
3	190120104003	Aman dixit	RN Gupta & Corp Ltd
4	190120104004	Anubhav srivastav	Bajaj Hindusthan Sugar Ltd
5	190120104005	Ayush chand	Udemy
6	190120104006	Beauty raj	RN Gupta & Corp Ltd
7	190120104007	Bijoy sutradhar	Fabaron Mechanical Engineers
8	190120104008	Gatla saiprakash	CAD DESK
9	190120104009	Kapil kumar pal	Udemy
10	190120104010	Mujammil khan	Bajaj Hindusthan Sugar Ltd
11	190120104011	Nikhil saxena	Maha Laxmi Group
12	190120104012	Pankaj kumar shah	Udemy
13	190120104013	Shoaib alam	Muvro Technologies Private Ltd
14	190120102016	Videsh kumar	Udemy
15	700120104001	Aakash Michael	Udemy
16	700120104002	Ritwik Singh	Mahindra & Mahindra

Dr.
Department of Mechanical Engineering
Tula's Institute, Dehradun


 Director
 Tula's Institute, Dehradun



Course Completion Certificate

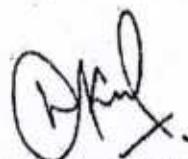
We are honoured to present this certificate to


ADARSH KUMAR

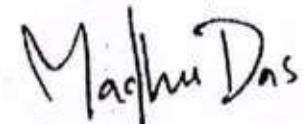
On Successful Completion of Remark Skill Live Online
Training with Microsoft Technology Associate Certification
from January 2021 to February 2021

Course

ARTIFICIAL INTELLIGENCE



Founder
Hitesh Kumar



Managing Head
Madhu Das



Autopark

The Complete Four Wheeler Solution

OPP. D.A.V. SCHOOL, Khabra, NH-28, MUZ

Mob : 9386008503
: 9905895941

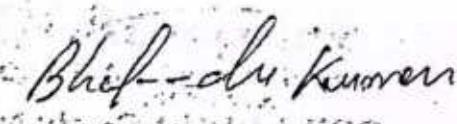
Date :

CERTIFICATE OF TRAINING

This is to certify that MR. Aditya Utkarsh S/O Mr. Mohan Kumar from Tula's Institute Dehradun has successfully completed one month (From 15 Jan 2022 to 15 Feb. 2022) internship programme at Autopark from our Mechanical workshop. During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.


Director
Tula's Institute, Dehradun


Chief Executive Officer

R. N. Gupta and Corp. Ltd.

Certificate of Internship


Director
Tula's Institute, Dehradun

The internship certificate is awarded to Anmol Dixit
for successful completion of Training on Development ofgie Steel and
Tool Steel
from 8th June 2022 to 30th June 2022 with A Grade

Vijay Kumar Verma
R.N. Gupta & Co. Ltd. (Unit-II)
G.T. Road, (DORAWA)
Vijay Kumar Verma

Date: 30/06/22

Ref. No.: - BHSL/BUD/HR/2021

Dated- 18-03-2021

To Whom It May Concern

This is to certify that Mr. Anubhav Srivastav, a student of B.Tech., (Mechanical Engineering), from Tula's Institute, Dehradun did 1 month internship from, 21st January 2021 to 22nd February 2021.

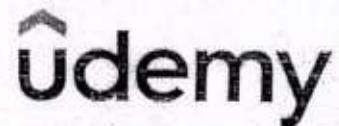
During this period his work & conduct were found satisfactory.

We wish him all the best for his career ahead.

For, Bajaj hindusthan sugar ltd,
Unit- Budhana (Muzaffarnagar)

(Authorized Signatory)

Director
Tula's Institute, Dehradun



Certificate no: UC-48e89f02-0c0a-4d7e-8839-a2055ab25052

Certificate url: ude.my/UC-48e89f02-0c0a-4d7e-8839-a2055ab25052

Reference Number: 0004

CERTIFICATE OF COMPLETION

AutoCAD : 2D And 3D Modelling

Instructors Nakul Satone


Tula's Institute, Dehradun
Director

AYUSH CHAND

Date Dec. 15, 2021

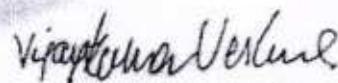
Length 18.5 total hours

R. N. Gupta and Corp. Ltd.

Certificate of Internship

The internship certificate is awarded to Beauty Raj
for successful completion of Training on Development of Die Steel and
Tool Steel
from 8th June 2022 to 30th June 2022 with A⁺ Grade


Tula's Institute, Director
Date: 30/06/22


Vijay Kumar Verma
R.N. Gupta & Co. Ltd. (Unit-II)
G.T. Road, (DORAHIA)
Distt. Ludhiana 141421



Fabaron Mechanical Engineers

Process, Plant Piping, Structural Fabrication & Mechanical Erection

Office : 52, Ground Floor, Vishal Residency, Mumbai - Pune Road, Kasarwadi, Pune - 411 034 Maharashtra India
Regd. Office : Eden Villa, Survey No. 258, Plot No. 35, Hissa No. 2 A, Main Road No. 1, Cross Road No. 19
Kheste Park, Pune - 411 032, Maharashtra India. Cell : 9423585603, 9730065643
Email : fabaronmech@gmail.com, Website : www.fabaronmech.com

Ref.

Date : 25-02-2021

To Whom It May Concern

This is to certify that Mr Bijoy Sutradhar, Roll No-190120104007 a student of B.Tech(Mechanical Engineering). From Tula's Institute, Dehradun did 1 month internship from 23rd January 2021 to 24th February 2021.

During this period his work & conduct were found satisfactory.

We wish him all the best for his career ahead.

For, Fabaron Mechanical Engineers
Shop No. 52, Ground Floor, Vishal Residency,
Kasarwadi, Pune - 411 034, Maharashtra.
FABARON MECHANICAL ENGINEERS
Tula's Institute, Dehradun
Kasharkad, Dehradun, UP
Date: 25/02/2021

Director
Tula's Institute, Dehradun

(Authorized Signatory)

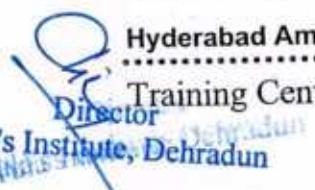
CERTIFICATE OF COMPLETION



Congratulations!

The course you have completed, was designed to meet your learning needs with professional instructors, relevant content, authorized courseware and ongoing evaluation by PTTS.




Director
Tula's Institute, Dehradun

Gatla Sai Prakash

Name

Certificate Course in Mechanical CAD

Course Title

AutoCAD Mechanical

Software Covered

Hyderabad Ameerpet

Training Centre



Reg.No.:8003/4163

Gatla Yadagiri

S/o D/o W/o

60 Hours

Course Duration

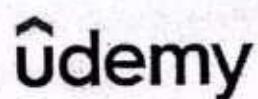
15 Feb 2022

Awarded on

Excellent

Grade

MANAGING DIRECTOR



Certificate no: UC-4B0891D2-0c0e-4d7e-8839-a2055ab25052
Certificate url: ude.my/UC-4B0891D2-0c0e-4d7e-8839-a2055ab25052
Reference Number: 0004

CERTIFICATE OF COMPLETION

AutoCAD : 2D And 3D Modelling

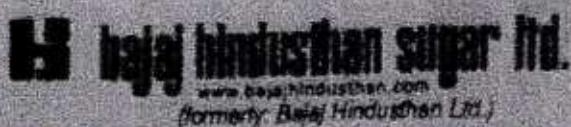
Instructors Nakul Satone

KAPIL KUMAR PAL

Date Dec. 15, 2021

Length 18.5 total hours

OIS
Director
Tula's Institute, Dehradun



Ref. No.: BHSL/BUD/HR/2021

Dated: 18-02-2021

To Whom It May Concern

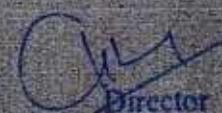
This is to certify that '**Mr. Mujammil Khan**' student of B.Tech., (Mechanical Engineering), from Tula's Institute, Dehradun did 1 month internship from, 21st January 2021 to 22nd February 2021.

During this period his work & conduct were found satisfactory.

We wish him all the best for his career ahead.

For, Bajaj hindusthan sugar ltd,
Unit- Budhana (Muzaffarnagar)


(Authorized Signatory)


Director
Tula's Institute, Dehradun

CERTIFICATE OF TRAINING

This is to certify that MR. Nikhil Saxena s/o Mr. Abdhesh Kumar Saxena ,from Tula Institute Dehradun has successfully completed one month (From 15 Jan 2022 to 15 Feb 2022) internship programme at Mahalaxmi Motors from our Mechanical workshop. During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.


Authorized signature
MAHALAXMI MOTORS
RAUNIL ROAD, P.O. BAHI, RAJPUR, U.P.


Director
Tula's Institute, Dehradun

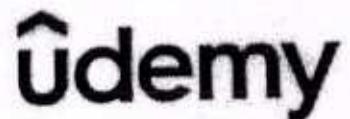
Maha Laxmi Motors

5, KM Rampur Road, Q.B. Ganj, Bareilly

PH. : 91-9837009725-01

Email: info@mahalaxmi.group, www.mahalaxmi.group

GST No: 09AAKFM6620N1ZR



Certificate no: UC-48e89f02-0c0e-4d7e-8839-a2055ab25052
Certificate url: [udemy.com/certificate/UC-48e89f02-0c0e-4d7e-8839-a2055ab25052](https://www.udemy.com/certificate/UC-48e89f02-0c0e-4d7e-8839-a2055ab25052)
Reference Number: 0004

CERTIFICATE OF COMPLETION

AutoCAD : 2D And 3D Modelling

Instructors Nakul Satone



Director
Tula's Institute, Dehradun

PANKAJ SHAH

Date Dec. 15, 2021

Length 18.5 total hours



Certificate no: UC-48e89f02-0c0e-4d7e-8839-a2055ab25052
Certificate url: ude.my/UC-48e89f02-0c0e-4d7e-8839-a2055ab25052
Reference Number: 0004

CERTIFICATE OF COMPLETION

AutoCAD : 2D And 3D Modelling

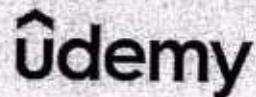
Instructors **Nakul Satone**



VIDESH KUMAR

Date **Dec. 15, 2021**

Length **18.5 total hours**



Certificate no: UC-4Be89f02-0c0e-4d7a-8939-a2055ab25052
Certificate url: udemy/UC-4Be89f02-0c0e-4d7a-8939-a2055ab25052
Reference Number: 0004

CERTIFICATE OF COMPLETION

AutoCAD : 2D And 3D Modelling

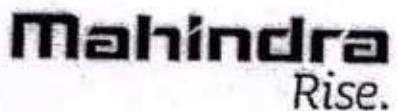
Instructors **Nakul Satone**

Aakash Michael

Date **Dec. 15, 2021**

Length **18.5 total hours**


Director
Tula's Institute, Dehradun



Mahindra & Mahindra Ltd.
Automotive Sector,
Sector - 5, Integrated Industrial Estate
SIDCUL, Haridwar (Uttarakhand) - 249 403
Tel : (01334) 239181, 82, 83
Fax : (01334) 239184

Ref: ER/729813/June/2022/01

Date: 02-02-2021

To Whomsoever It May Concern

This is to certify that Mr. Ritwik Singh (Token. No.-729813) has worked with us from 02.01.2021 to 02.02.2021 in Summer Internship.

During his contract period his work has found satisfactory.

We wish him for future endeavour.

For Mahindra & Mahindra Limited,

Vimal Kumar Singh
DGM - ER & Admin

Director
Tula's Institute, Dehradun

Regd. Office: Gateway Building Apollo Bunder, Mumbai-400 001
CIN NO - L65990MH1945PLC004558
www.mahindra.com
Tel : +91(22)22021031
Fax : +91(22)22875485



Internship Certificate

Date: - 03/07/2022

This is to certify that **Mr. Kanahiya Tulsyan** from **Tula's Institute, Dehradun** has successfully completed his two months of offline internship with **Skyview Smart Solutions**.

Internship: Content Writing (full-time)

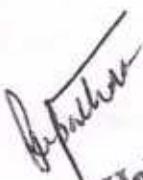
During his tenure, we found him active and competent in executing all tasks. Also, the services provided by him were all satisfactory.

We wish him great success in all future endeavors.

YOUSRA KHAN
HR Manager



 Director
Tula's Institute, Dehradun

 HoD
Department of Journalism & Media
Tula's Institute, Dehradun



प्रातः दर्पण न्यूज

हेड ऑफिस: 268, A/A, रामबाबू जीन, वेलनगंज, आगरा - 282004

सम्पर्क सूत्र: +91 9068913111, 7895339493

Email: praatahdarpannews@gmail.com

Website: www.praatahdarpannews.com

Date of Issue – 16/06/2022

To whomsoever it may concern,

This document is to certify that Dev Sidharth has completed his/her internship in Production Executive Intern at Pratah Darpan News, from 10/05/2022 to 11/06/2022.

During the internship, Mr./Ms./Mrs. Dev Sidharth demonstrated a keen interest and enthusiasm to learn new skills. His/Her performance exceeded our expectations and his/her dedication to their role and responsibilities was commendable. All of the tasks were completed on time and to the best of his/her abilities.

We wish him/her all the best for his/her career.

With regards

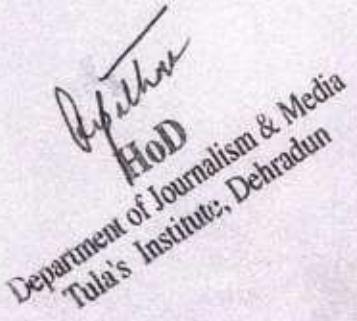


(Signature)

Rajesh Kumar



Chintan
Director
Tula's Institute, Dehradun



Apurva
HoD
Department of Journalism & Media
Tula's Institute, Dehradun

JANADESH EXPRESS INDIA LIMITED

CIN :- U22219UR2020PLC010947

PAN : AAECJ0105E

TAN : MRTJ029F

Office No. : 0135-2763999

Helpline No. : 9910943629

S.No JEII/203/22

Date : 02/04/2022

Miss - Varsha Mishra
D/O - Mr. Mahesh Dutta Mishra
Address - Dhulkot, Chakrata Road, Near Tula's Institute Dehradun
Cont no - 6398081089

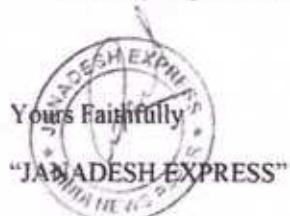
RF: Offer the position of- Video Editing (internship)

With a reference your application and subsequent interview you had with us. We are pleased to offer you the above post on the terms and condition finalized with you.

Your stipend will be 2000/- per month.

Your employment with Janadesh Express India Limited will be on at basis, which means you and the company are free to terminate the employment relationship at any time for any reason. This letter is not a contract or guarantee of employment for a definite amount of time. Request you to join the duties on 02nd April 2022. At the time of your joining would be required to submit the following:-

- ❖ Proof of Age (DOB)
- ❖ Certificate of true copies of your Education/Proof qualification.
- ❖ 4 passport Size Photographs
- ❖ Experience Certificate
- ❖ Salary Slip (Preview)



Chintan
Director
Tula's Institute, Dehradun

Panchsheel Park-2, Chakrata Road
Near FRI Gate No.2, Dehradun, Uttarakhand- 248001

editor@janadeshexpress.in
www.janadeshexpress.in

*HoD
Department of Journalism & Media
Tula's Institute, Dehradun*

14



DESIGNCOMM

IxiqnoSpacesBlockc, 1st floor,
Uptown Cyberabad,
100 Feet Road, Ayyappa Society,
Madhapur, Hyderabad, Telangana, 500081

Certificate of

22 Jan 2022

Sub: Certificate of Internship/Training Completion

This is to certify that Mr. Pravesh Kumar has successfully completed internship (from 20th Dec 2021 to 20th Jan 2022) as web developer at Designcomm Technologies Pvt Ltd.

We have found her to be self - starter who is motivated.

Regards,

Jagadeesh T,
Director



getdesigns@designcomm.in



+91 913 229 6211

Chh
Director
Tula's Institute, Dehradun

aws

COURSE
CERTIFICATE

Aug 31, 2021

Shantanu

Getting Started with AWS Machine Learning



[Signature]
GATE
Director
Tula's Institute, Dehradun

[Signature]

Verify at [coursera.org/verify/GREGJ11FQAT](https://www.coursera.org/verify/GREGJ11FQAT)
This certificate confirms [redacted] has completed this course and participated in its final project.



Date: 1st December 2021

Ritik Mehta,

04, Mehta Parisar, Kanipura Road,
Opposite St. Paul H.S.School,
Ujjain, Madhya Pradesh-456001

Dear Ritik,

We welcome you to us as a trainee intern. At Emmbi Industries Limited, we believe that our team is our biggest strength and take pride in hiring ONLY the best and the brightest. We are confident that you would play a significant role in the overall success of the venture and wish you the most enjoyable, learning packed and truly meaningful internship experience with us.

Position : Your initial position with the company will be as a trainee intern.

Duration : 6 months.

Start date : 15th December 2021.

Anticipated end date : 30th May 2022.

We look forward to you joining us and we are excited about the opportunity to work with you. Kindly confirm your acceptance of this offer of the internship by signing below. If you have any questions, direct them to the internship program manager/mentor.

Gangrade

Sudhir Kumar Gangrade
Internship Program Mentor
+91 8306781108

Accepted : _____

Date :

Place :

Emmbi Industries Limited Rakholi Unit - 99/2/1 & 9, Madhuban Industrial Estate, Madhuban Dam Road, Rakholi Village Silvassa (D & NH) 396 230 INDIA



Sudhir Kumar Gangrade
Director
Tula's Institute, Dehradun



CERTIFICATE OF COMPLETION

THIS IS PRESENTED TO

for completing Internship for 3 months
at Paradoxalpha Foundation from 18/08/2021 to 18/11/21 as a
Web Development Intern.

Director
Tula's Institute, Dehradun

Keshav Agarwal

Ranveer Singh

Founder & Director

CIN: U85300UR2021NPL012737

Ixiono Spaces Block C, 1st floor,
Uptown Cyberabad,
100 Feet Road, Ayyappa Society,
Madhapur, Hyderabad, Telangana, 500081



Certificate of Internship

22 July 2021

Sub: Certificate of Internship/Training Completion

This is to certify that Mr. Virat Kumar Singh has successfully completed internship (from 20th June 2021 to 20th July 2021) as Web Developer at Designcomm Technologies Pvt Ltd.

We have found him to be self - starter who is motivated.

Regards,

Jagadeesh T,
Director

A handwritten signature in black ink, appearing to read "Jagadeesh T."

A handwritten signature in blue ink, appearing to read "Ajay".

Director
Tula's Institute, Dehradun



3rd

Certificate no: UC-e86dbcf8-7d15-492d-9539-c3d7dda58e36
Certificate url: ude.my/UC-e86dbcf8-7d15-492d-9539-c3d7dda58e36

Reference Number: 0004

CERTIFICATE OF COMPLETION

Python and Django Full Stack Web Developer Bootcamp

Instructors **Jose Portilla**

Director

Tula's Institute, Dehradun

Sunny kumar

Date Jan. 19, 2022

Length 85 total hours



Certificate no: UC-9ea3d841-04cc-4ad7-a3f4-3c11d3cb43ac
Certificate url: ude.my/UC-9ea3d841-04cc-4ad7-a3f4-3c11d3cb43ac

Reference Number: 0004

CERTIFICATE OF COMPLETION

The Complete JavaScript Course 2021: From Zero to Expert!

Instructors **Jonas Schmedtmann**



Director
Tula's Institute, Dehradun

Rajat Harsh

Date **Nov. 5, 2021**

Length **68.5 total hours**



Siddharth Chauhan

Developer Program

Certificate of Completion

August 10th, 2021



Director
Tula's Institute, Dehradun

Over the period of June 2021 to August 2021, Siddharth Chauhan has completed practical task modules in:

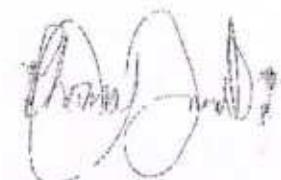
Define technical requirements
Design changes to an existing architecture
Scale on-premise system infrastructure to the cloud
Reading and understanding code
Attention to detail

Debugging algorithms
Unit testing
User Acceptance Testing - UAT
Security maturity assessment
IAM policies and permissions

Securing the software development lifecycle (SDLC)
Shaping the Problem
Data and privacy



Johnny Rosenby
Nordic Recruitment
Director



Tom Brunskill
CEO, Co-Founder of
Forage



Certificate nc: UC-260ac798-9529-4e8d-8d02-3a17526ee176
Certificate url: ude.my/UC-260ac798-9529-4e8d-8d02-3a17526ee176

Reference Number: 0004

CERTIFICATE OF COMPLETION

The Complete 2021 Web Development Course - Build 15 Projects

Instructors **Development Island (UK)**


Director
Tula's Institute, Dehradun

Sahil Joshi

Date **Nov. 13, 2021**

Length **99.5 total hours**



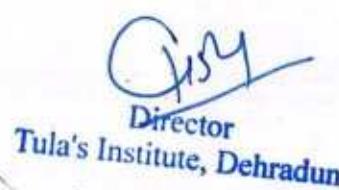
Certificate no: UC-260ac798-9529-4e8d-8d02-3a17526ee176
Certificate url: ude.my/UC-260ac798-9529-4e8d-8d02-3a17526ee176

Reference Number: 0004

CERTIFICATE OF COMPLETION

The Complete 2021 Web Development Course - Build 15 Projects

Instructors **Development Island (UK)**


Director
Tula's Institute, Dehradun

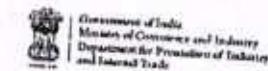
Nikhil Mathur

Date **Nov. 13, 2021**

Length **99.5 total hours**



Homeflic Wegrow



#startupindia

CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

SURAJ KUMAR

CODEIGNER PYTHON

15 HOURS / 3 MONTHS

Director
Tula's Institute, Dehradun

17 September 2021

Suraj Kumar successfully completed a 25-hour Python course at Tula's Institute, Dehradun. He demonstrated a strong understanding of the concepts and completed all assignments with high quality. His dedication and hard work have paid off, and he has shown great potential in learning new skills. We wish him all the best for his future endeavors.

Yours sincerely,
Amit Kumar

Amit Kumar
Course Director

Kudos Report
Date: 17/09/2021

CERTIFICATE ID HFWGCPA0495

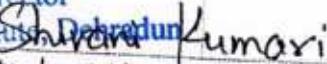


Certificate

of hours of learning

shivani kumari

Excel basic to advanced by Trump Excel
22 hours 35 minutes


Director
Tula's Institute Dehradun

Student signature:
shivani kumari


Adrian Medeiros Dantas
CEO / Director - Cursa

This certificate proves that the student has attended the following courses in the Cursa application, which is available in the Google application store (Google Play), proving the authenticity of the respective viewing time of video lessons that are made available by third parties through the platform of Youtube. To account for the time in the course, the student must watch the videos until the end. If you have received this certificate from someone else and want to verify that it is authentic, go to cursa.app/en/verify and consult by email: shivanijha2408@gmail.com

Application manager: Medeiros Tecnologia LTDA - Brazilian company
E-mail: contato@cursa.app



Certificate

of hours of learning

shivani kumari

Java for beginners by ProgrammingKnowledge
50 hours 30 minutes

Director

ITMA Institute, Dehradun

Shivani Kumari

Student signature:
shivani kumari

Adrian Medeiros Dantas
CEO / Director - Cursa

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shivanijha2408@gmail.com

Application manager: Medeiros Tecnologia LTDA - Brazilian company
E-mail: contato@cursa.app



Certificate

of hours of learning

shivani kumari

iOS by Stanford - Paul Hegarty

22 hours 35 minutes


Director
Dila's Institute, Dehradun

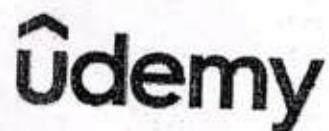
Shivani Kumari
Student signature:
shivani kumari


Adrian Medeiros
CEO / Director - Cursa

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Application manager: Medeiros Tecnologia LTDA - Brazilian company
E-mail: contato@cursa.app





Certificate no: UC-e89d4ea7-f244-48fa-a498-1d1e2f7b982f
Certificate url: ude.my/UC-e89d4ea7-f244-48fa-a498-1d1e2f7b982f

Reference Number: 0004

CERTIFICATE OF COMPLETION

Data Structures and Algorithms Python: The Complete Bootcamp

Instructors **Shubham Sarda**



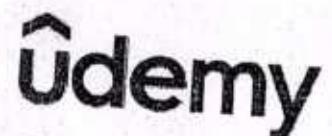
Director
Tula's Institute, Dehradun



Pallavi Priti

Date **14 Nov 2021**

Length **20 total hours**

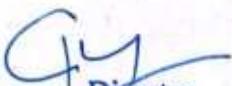


Certificate no: UC-e89d4ea7-f244-48fa-a498-1d1e2f7b982f
Certificate url: ude.my/UC-e89d4ea7-f244-48fa-a498-1d1e2f7b982f
Reference Number: 0004

CERTIFICATE OF COMPLETION

Data Structures and Algorithms Python: The Complete Bootcamp

Instructors **Shubham Sarda**


Director
Tula's Institute, Dehradun

Pallavi Priti

Date **14 Nov 2021**

Length **20 total hours**

Certificate

of hours of learning

Sumesh Makhija

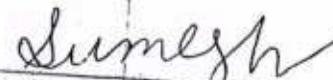
Java by Stanford

99 hours 30 minutes :: From 17/12/2021 to 17/12/2021

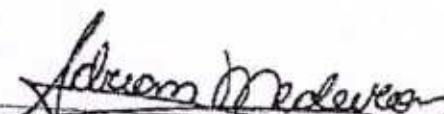


Director

Tula's Institute, Dehradun



Student signature:
Sumesh Makhija



Adrian Medeiros Dantas
CEO / Director - Cursa

This certificate proves that the student has attended the following courses in the Cursa application, which is available in the Google application store (Google Play), proving the authenticity of the respective viewing time of video lessons that are made available by third parties through the platform of YouTube. To account for the time in the course, the student must watch the videos until the end. If you have received this certificate from someone else and want to verify that it is authentic, go to cursa.app/en/verify and consult by email: sumeshmakhija19@gmail.com

Application manager: Medeiros Tecnologia LTDA - Brazilian company
E-mail: contato@cursa.app



cursa

EEE Department

Session 2021-22

S.No.	Roll No.	Name	Organization
1	200120108001	Manish Yadav	Internshala/Arduino
2	200120108002	Prashant Raj	Internshala/Arduino
3	710120108001	Abhishek Chauhan	Internshala/Arduino
4	710120108002	Ayush Negi	Internshala/Arduino
5	710120108003	Nzanthung R Tsopoe	Internshala/Arduino
6	710120108004	Razoto Veswuh	Internshala/Arduino
7	710120108005	Saurav Naudiyal	Internshala/Arduino
8	710120108006	Thungchibemo Ngullie	Internshala/Arduino
9	710120108007	Tobo Z Achumi	Internshala/Arduino
10	190120108001	Ambuj Mohan	Microsoft/AI
11	190120108002	Bikram Singh Tharu	Ensino Research and Development Private Limited
12	190120108003	Brikhesh Kumar Yadav	Ensino Research and Development Private Limited
13	190120108004	Digvijay Sanjeevan	Deloitte
14	190120108005	Gaurav Singh	Automation Anywhere
15	190120108006	Hira Khan	Shinpa Electrical Company
16	190120108008	Swarnalata Debbarma	Ensino Research and Development Private Limited
17	190120108009	Vinita Kumari	Ramkrishna Spinning Mills Private Limited
18	700120108001	Livika H Aye	Ensino Research and Development Private Limited
19	700120108002	Shinde Akhilesh Sunil	Automation Anywhere
20	700120108003	Vikani K Tuccu	Ensino Research and Development Private Limited
21	180120108001	Aman Chaudhary	Internshala/Arduino
22	180120108004	Moh Halim Ansari	Bhusal Cable Wire Industries Private Limited
23	180120108005	Pawan Yadav	Internshala/Arduino
24	180120108006	Pushkar Yadav	Internshala/Arduino
25	690120108001	Dalina debbarma	Internshala/Arduino
26	690120108002	Shivangi Chandel	Internshala/Arduino



Director
Tula's Institute, Dehradun

ECE Department

Session 2021-22

S.No.	Roll No.	Name	Organization
1	200120102001	M.Angteshang Kanshouwa	Intershala/ Arduino
2	200120102002	Shubham Kumar	Intershala/ Arduino
3	710120102001	Krishnendu Ghosh	Intershala/ Arduino
4	190120102001	ABHISHEK KUMAR	Udemy Core java
5	190120102002	ABHISHEK KUMAR	Udemy (web development)
6	190120102003	ANUP BAHUGUNA	FreeCodeChamp (Responsive Web design)
7	190120102004	APOORV ARYA	FreeCodeChamp (Responsive Web design)
8	190120102005	AVISHEK KUMAR GUPTA	Fortune IT (Python)
9	190120102006	DARSHANA PALKHEDE	Machine Learning
10	190120102007	HARDEV KUMAR	Udemy (Data science and Machine learning)
11	190120102008	HARSH RAJ	Udemy (web developer Bootcamp)
12	190120102009	JASMAN GILL	Udemy (PYTHON PROGRAMMING)
13	190120102010	PRABHANSHU KUMAR	Jovian (Machine learning with python). NEILIT (MATLAB PROGRAMMING)
14	190120102011	PRIYANSHU BISWAS	Universal sales corporation, (ERP, EC)
15	190120102012	SHIVAM KUMAR	
16	190120102013	SHREYANSH MISHRA	FreeCodeChamp (Responsive Web design)
17	190120102014	SUMIT KUMAR	Udemy Core Java
18	190120102015	SUSHIVAM	FreeCodeChamp (Responsive Web design)
19	700120102001	Manish Kumar Ram	XESP INDUSTRIES, (Embedded system design with Arduino)
20	180120102001	Ashish Waikom	
21	180120102002	Kundan Kumar	SkillUP (Introduction to artificial intelligence)
22	180120102003	NiveditaSuman	MATLAB
23	180120102004	Om Prakash	
24	180120102005	Ravi Shekhar	
25	180120102006	Shubham Kumar	SkillUP (Introduction to artificial intelligence)
26	180120102007	UtkarshAmbastha	Python Institute(Programming in python)
27	180120102008	Vijayabhishek Kumar	
28	180120102009	Vikas Kumar Gupta	
29	690120102001	SudarshanThakuri	Udemy(Electronics and PCB design)



Director
 Tula's Institute, Dehradun



Certificate no: UC-cb8e0a35-eb6a-4c2b-bf5a-887a3117582b
Certificate url: ude.my/UC-cb8e0a35-eb6a-4c2b-bf5a-887a3117582b
Reference Number: 0004

CERTIFICATE OF COMPLETION

Complete Core Java In Simple Way

Instructors DURGASOFT NAGOOR BABU

Director
Tula's Institute, Dehradun

Sumit Kumar

Date July 6, 2022

Length 100 total hours

Certificate of Training

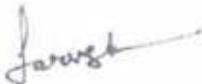
Darshana Palkhede

has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

We wish Darshana all the best for future endeavours.



Director
Tula's Institute, Dehradun



Sarvesh Agarwal

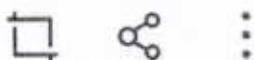
FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-10-05

Certificate no.: 107EF1F3-45F0-7127-11C6-C83D2C32FCED

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

← 14



Image

Word

14/14

Udemy

CERTIFICATE OF COMPLETION

MATLAB Master Class: Go from Beginner to Expert in MATLAB

Instructors: **Naveen Aram** **Nivedita Suman**Date: Feb. 25, 2023
Length: 59.5 total hours
Director
Tula's Institute, Dehradun

Rotate



Markup



Extract Text



Signature



Note

Annexure – II

Sample Project Certificates


G.S. Tyagi
Director
Tula's Institute, Dehradun

TULAS INSTITUTE ,DEHRADUN
DEPARTMENT OF MECHANICAL ENGINEERING
MAJOR PROJECT DETAILS

MECHANICAL IV YEAR (2021-22)

S.NO.	Roll Number	Name of Student	PROJECT NAME
1	180120104001	Adarsh Gautam	Plastic Bottle Vending Machine
2	180120104002	Amodh Kushwaha	Solar Desalination System with Evacuated Tube Collectors
3	180120104003	Anubhaw sinha	Plastic Bottle Vending Machine
4	180120104004	Ayush Prakash Dikshit	Plastic Bottle Vending Machine
5	180120104005	Bhushan pal	Solar Desalination System with Evacuated Tube Collectors
6	180120104006	Bhupatinath	Plastic Bottle Vending Machine
7	180120104007	Bindu Yadav	Solar Grass Cutter
8	180120104008	Mohith Kokkirala	Solar Grass Cutter
9	180120104009	Prashant	Head & Head Motion Moving Wheel Chair
10	180120104010	Rahul tanti	Head & Head Motion Moving Wheel Chair
11	180120104011	Ranjan Gupta	Head & Head Motion Moving Wheel Chair
12	180120104012	Ritu Raj Singh	Head & Head Motion Moving Wheel Chair
13	180120104013	Rohan Rana	Solar Grass Cutter
14	180120104014	Sabir Ansari	Solar Desalination System with Evacuated Tube Collectors
15	180120104015	Sachin Kumar	Solar Desalination System with Evacuated Tube Collectors
16	180120104016	Sagar Chaudhary	Solar Grass Cutter
17	180120104017	Sajan Kumar Singh	Solar Desalination System with Evacuated Tube Collectors
18	180120104018	Saurabh Pandey	Solar Grass Cutter
19	690120104002	Chetan soni	Head & Head Motion Moving Wheel Chair
20	690120104003	Giken karga	Head & Head Motion Moving Wheel Chair
21	690120104004	Manjil Subba	Solar Grass Cutter
22	690120104005	Prateek Thapa	Solar Grass Cutter
23	690120104006	Rahul Negi	Plastic Bottle Vending Machine



Director
Tula's Institute, Dehradun


 Director
 Tula's Institute, Dehradun



Certificate from the Supervisor

This is to certify that the Project Report entitled "**SOLAR DESALINATION SYSTEM WITH EVACUATED TUBE COLLECTORS.**"

Submitted by

Amodh Kushwaha	Roll no. 180120104002
Bhushan Pal	Roll no. 180120104005
Sajan Kumar Singh	Roll no. 180120104017
Sabir Ansari	Roll no. 180120104014
Sachin Kumar	Roll no. 180120104015

At Tula's Institute, Dehradun for the degree of **Bachelor of Technology in MECHINICAL ENGINEERING** is their original work carried out by them under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature :

Supervisor Name :

RAHUL KUMAR

Supervisor Designation :

ASSISTANT PROFESSOR

Date

30/5/2022

Name & Signature of External Examiner:

30/5/22

Om
Director
Tula's Institute, Dehradun



Certificate from the Supervisor

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Bhushan Pal	Roll no. 180120104005
Sajan Kumar Singh	Roll no. 180120104017
Sabir Ansari	Roll no. 180120104014
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Supervisor Signature

Supervisor Name

Supervisor Designation

Date

Name & Signature of External Examiner:

: RAHUL KUMAR
: ASSISTANT PROFESSOR

30/5/2022

Jotiyal
30/5/22

Director
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled :

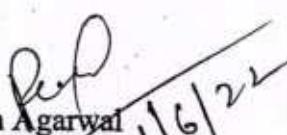
Plastic Bottle Vending Machine

Submitted by

Ayush Prakash Dikshit	180120104004
Rahul Negi	690120104006
Bhupati Nath	180120104006
Adarsh Gautam	180120104001
Anubhav Sinha	180120104003

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in Mechanical Engineering is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature

: 
16/22

Supervisor Name

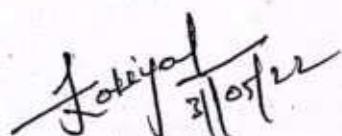
: Piyush Agarwal

Supervisor Designation

: Assistant Professor

Date

: 31-05-2022


31/05/22

HOD

Department of Mechanical Engineering
Tula's Institute, Dehradun



Director

Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled :

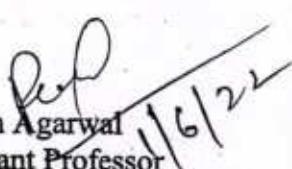
Plastic Bottle Vending Machine

Submitted by

Ayush Prakash Dikshit	180120104004
Rahul Negi	690120104006
Bhupati Nath	180120104006
Adarsh Gautam	180120104001
Anubhav Sinha	180120104003

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in Mechanical Engineering is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature

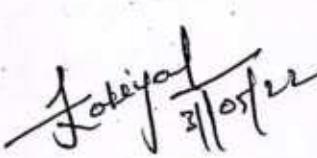


: Piyush Agarwal
: Assistant Professor
: 31-05-2022

Supervisor Name

Supervisor Designation

Date



HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



Director
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "Solar Desalination System"

Submitted by :

Ayush Chand	Roll No. 190120104005
Beauty Raj	Roll No. 190120104006
Videsh Kumar	Roll No. 190120104016
Ritwik Singh	Roll No. 700120104002

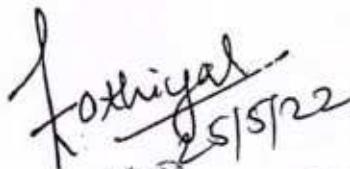
at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023

Mr. Devesh Sharma is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature : Dwarka
Supervisor Name : Mr. Devesh Sharma
Supervisor Designation : Assistant Professor
Date : 25/5/2022

Name & Signature of Project Coordinator: Ashwani Kumar Ankit AS


Director
Tula's Institute, Dehradun


HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "Solar Desalination System"

Submitted by :

Ayush Chand

Roll No. 190120104005

Beauty Raj

Roll No. 190120104006

Videsh Kumar

Roll No. 190120104016

Ritwik Singh

Roll No. 700120104002

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023

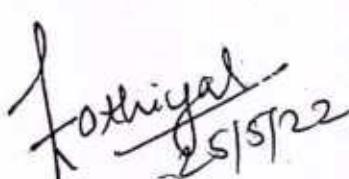
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Supervisor Signature : Dwarka
Supervisor Name : Mr. Devesh Sharma
Supervisor Designation : Assistant Professor
Date : 25/5/2022

Name & Signature of Project Coordinator:

Ashwani Kumar Ankit AS


Director
Tula's Institute, Dehradun


HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor

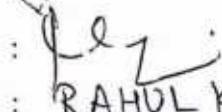
This is to certify that the Project Report entitled "**SOLAR DESALINATION SYSTEM WITH EVACUATED TUBE COLLECTORS.**"

Submitted by

Amodh Kushwaha	Roll no. 180120104002
Bhushan Pal	Roll no. 180120104005
Sajan Kumar Singh	Roll no. 180120104017
Sabir Ansari	Roll no. 180120104014
Sachin Kumar	Roll no. 180120104015

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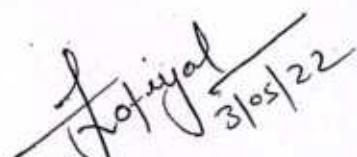
Supervisor Signature :


RAHUL KUMAR
ASSISTANT PROFESSOR

Date :

30/5/2022

Name & Signature of External Examiner:


Satyajal
30/5/22



Certificate from the Supervisor

This is to certify that the Project Report entitled "**SOLAR DESALINATION SYSTEM WITH EVACUATED TUBE COLLECTORS.**"

Submitted by

Amodh Kushwaha	Roll no. 180120104002
Bhushan Pal	Roll no. 180120104005
Sajan Kumar Singh	Roll no. 180120104017
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Supervisor Signature :

Supervisor Name : RAHUL KUMAR

Supervisor Designation : ASSISTANT PROFESSOR

Date : 30/5/2022

Name & Signature of External Examiner:

30/5/22



Certificate from the Supervisor

This is to certify that the Project Report entitled "**SOLAR DESALINATION SYSTEM WITH EVACUATED TUBE COLLECTORS.**"

Submitted by

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Bhushan Pal	Roll no. 180120104005
Sajan Kumar Singh	Roll no. 180120104017
Sabir Ansari	Roll no. 180120104014
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Supervisor Signature :

Supervisor Name :

RAHUL KUMAR

Supervisor Designation :

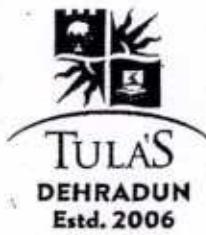
ASSISTANT PROFESSOR

Date :

30/5/2022

Name & Signature of External Examiner:

30/5/22



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled :

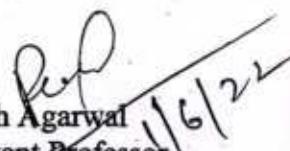
Plastic Bottle Vending Machine

Submitted by

Ayush Prakash Dikshit	180120104004
Rahul Negi	690120104006
Bhupati Nath	180120104006
Adarsh Gautam	180120104001
Anubhav Sinha	180120104003

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in Mechanical Engineering is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

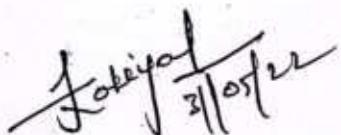
Supervisor Signature


Piyush Agarwal
Assistant Professor
31-05-2022

Supervisor Name

Supervisor Designation

Date


HOD

Department of Mechanical Engineering
Tula's Institute, Dehradun


Director
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled :

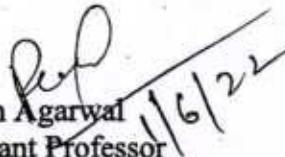
Plastic Bottle Vending Machine

Submitted by

Ayush Prakash Dikshit	180120104004
Rahul Negi	690120104006
Bhupati Nath	180120104006
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Supervisor Signature

: 
6/22

Supervisor Name

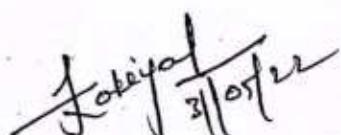
: Piyush Agarwal

Supervisor Designation

: Assistant Professor

Date

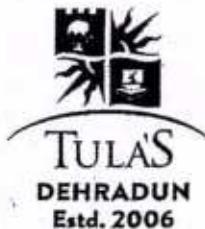
: 31-05-2022


3/05/22

HOD

Department of Mechanical Engineering
Tula's Institute, Dehradun


Director
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled :

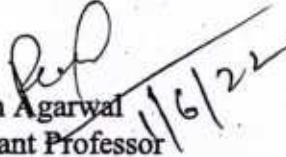
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Submitted by

Ayush Prakash Dikshit	180120104004
Rahul Negi	690120104006
Bhupati Nath	180120104006
Adarsh Gautam	180120104001
Anubhav Sinha	180120104003

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Supervisor Signature

: 
/6/22

Supervisor Name

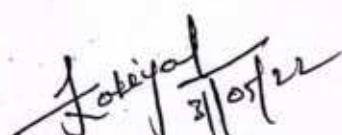
: Piyush Agarwal

Supervisor Designation

: Assistant Professor

Date

: 31-05-2022


3/05/22

HOD

Department of Mechanical Engineering
Tula's Institute, Dehradun


Director
Tula's Institute, Dehradun



Certificate from the Supervisor

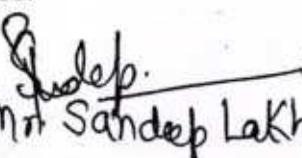
This is to certify that the Project Report entitled "**HEAD AND HAND MOTION MOVING WHEEL CHAIR.**"

Submitted by

Prashant	Roll no. 180120104002
Ranjan Kumar Gupta	Roll no. 180120104005
Rituraj Singh	Roll no. 180120104017
Chetan Soni	Roll no. 180120104014
Giken Karga	Roll no. 180120104015
Rahul Tanti	Roll no. 180120104010

At Tula's Institute, Dehradun for the degree of **Bachelor of Technology in MECHINICAL ENGINEERING** is their original work carried out by them under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature


Mr. Sandeep Lakhera


Director
Tula's Institute, Dehradun

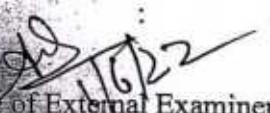
Supervisor Name

Assistant Professor

Supervisor Designation

Date

Name & Signature of External Examiner:


HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor

This is to certify that the Project Report entitled "**HEAD AND HAND MOTION MOVING WHEEL CHAIR.**"

Submitted by

Prashant	Roll no. 180120104002
Ranjan Kumar Gupta	Roll no. 180120104005
Rituraj Singh	Roll no. 180120104017
Chetan Soni	Roll no. 180120104014
Giken Karga	Roll no. 180120104015
Rahul Tanti	Roll no. 180120104010

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Supervisor Signature

Supervisor Name

Supervisor Designation

Date

Name & Signature of External Examiner:

Sandeep Lakhani

Director

Tula's Institute, Dehradun

Assistant Professor

HOD

Department of Mechanical Engineering
Tula's Institute, Dehradun

31/05/22



Certificate from the Supervisor

This is to certify that the Project Report entitled "**HEAD AND HAND MOTION MOVING WHEEL CHAIR.**"

Submitted by

Prashant	Roll no.	180120104002
Ranjan Kumar Gupta	Roll no.	180120104005
Rituraj Singh	Roll no.	180120104017
Chetan Soni	Roll no.	180120104014
Giken Karga	Roll no.	180120104015
Rahul Tanti	Roll no.	180120104010

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Supervisor Signature

: Mr. Sandeep Lakhessa

Director
Tula's Institute, Dehradun

Supervisor Name

: Assistant Professor

Supervisor Designation

: HOD

Date

: 31/05/22
Name & Signature of External Examiner:
HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor

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Giken Karga	Roll no. 180120104015
Rahul Tanti	Roll no. 180120104010

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Supervisor Signature

Supervisor Name

Supervisor Designation

Date

Name & Signature of External Examiner:

Sandep
Mr Sandep Lakheda
Assistant Professor
Tula's Institute, Dehradun

Director

31/05/22
HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor

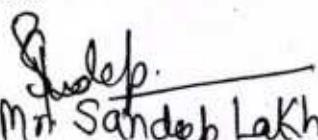
This is to certify that the Project Report entitled "**HEAD AND HAND MOTION MOVING WHEEL CHAIR.**"

Submitted by

Prashant	Roll no. 180120104002
Ranjan Kumar Gupta	Roll no. 180120104005
Rituraj Singh	Roll no. 180120104017
Chetan Soni	Roll no. 180120104014
Giken Karga	Roll no. 180120104015
Rahul Tanti	Roll no. 180120104010

At Tula's Institute, Dehradun for the degree of **Bachelor of Technology in MECHINICAL ENGINEERING** is their original work carried out by them under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

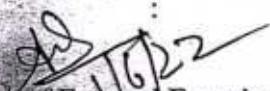
Supervisor Signature


Mr. Sandeep Lakhessa

Supervisor Name

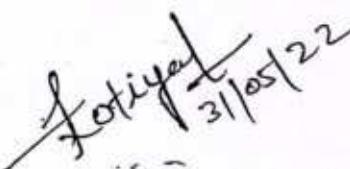
Assistant Professor

Date


16/05/22

Name & Signature of External Examiner:


Director
Tula's Institute, Dehradun


HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun
31/05/22



Certificate from the Supervisor

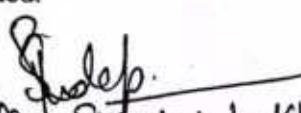
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Supervisor Signature


Mr. Sandeep Lakhera

Director
Tula's Institute, Dehradun

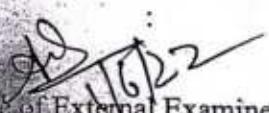
Supervisor Name

: Assistant Professor

Date

31/05/22

Name & Signature of External Examiner:


HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



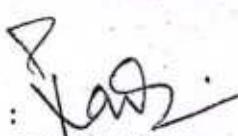
Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "Solar Grass Cutter"

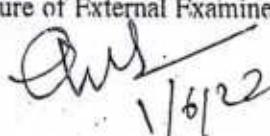
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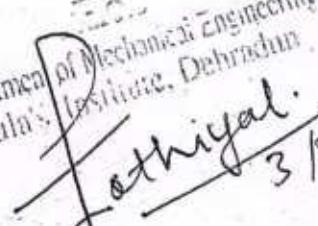
Binod Yadav	Roll No. 180120104007
Mohith Kokirala	Roll No. 180120104008
Rohan Rana	Roll No. 180120104013
Saurabh Pandey	Roll No. 180120104018
Manjil Subba	Roll No. 690120104004
Prateek Thapa	Roll No. 690120104005

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
Mr. Rahul Kumar is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature : 
Supervisor Name : Mr. Rahul Kumar
Supervisor Designation : Assistant Professor
Date : 30/5/2022

Name & Signature of External Examiner:

 1/6/22
Director
Tula's Institute, Dehradun

Department of Mechanical Engineering
Tula's Institute, Dehradun
 30/5/22



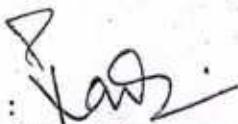
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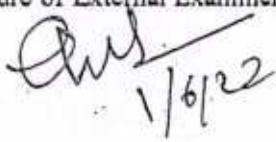
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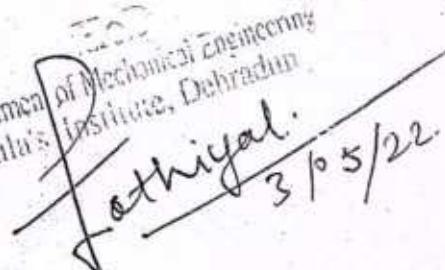
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Supervisor Name : Mr. Rahul Kumar
Supervisor Designation : Assistant Professor
Date : 30/5/2022

Name & Signature of External Examiner:


1/6/22

Department of Mechanical Engineering
Tula's Institute, Dehradun

Fothiyal 30/5/22


Director
Tula's Institute, Dehradun



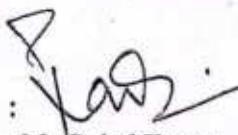
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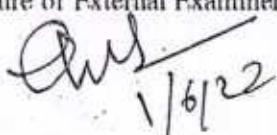
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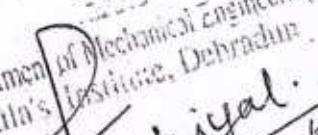
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Supervisor Name : Mr. Rahul Kumar
Supervisor Designation : Assistant Professor
Date : 30/5/2022

Name & Signature of External Examiner:



Department of Mechanical Engineering
Tula's Institute, Dehradun



Director
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

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Submitted by :

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Supervisor Signature

Supervisor Name

: Mr. Rahul Kumar

Supervisor Designation

: Assistant Professor

Date

: 30/5/2022

Name & Signature of External Examiner:

Department of Mechanical Engineering
Tula's Institute, Dehradun

Pothiyal
30/5/22

Director
Tula's Institute, Dehradun



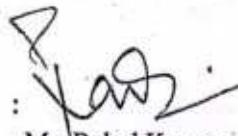
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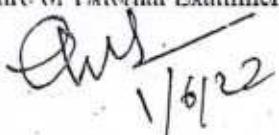
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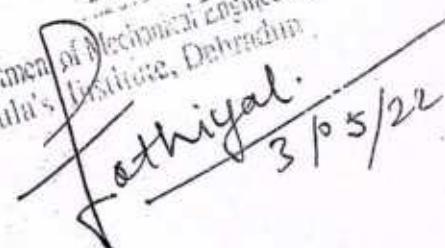
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Supervisor Signature : 
Supervisor Name : Mr. Rahul Kumar
Supervisor Designation : Assistant Professor
Date : 30/5/2022

Name & Signature of External Examiner:



Department of Mechanical Engineering
Tula's Institute, Dehradun

30/5/22


Director
Tula's Institute, Dehradun



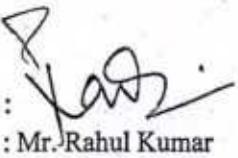
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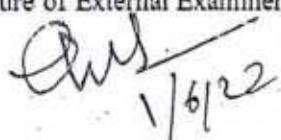
Submitted by :

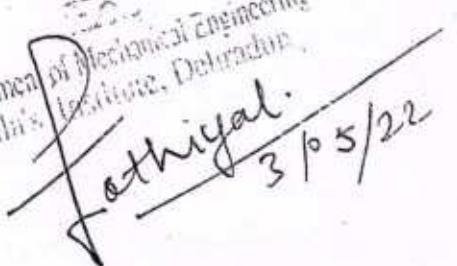
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at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
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Supervisor Signature : 
Supervisor Name : Mr. Rahul Kumar
Supervisor Designation : Assistant Professor
Date : 30/5/2022

Name & Signature of External Examiner:



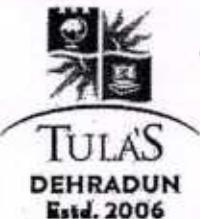
Department of Mechanical Engineering
Tula's Institute, Dehradun
 30/5/22


Director
Tula's Institute, Dehradun

TULAS INSTITUTE ,DEHRADUN			
DEPARTMENT OF MECHANICAL ENGINEERING			
MINOR PROJECT DETAILS			
MECHANICAL III YEAR			
S.N0.	Roll Number	Name of Student	Project Name
1	190120104001	Adarsh kumar	All Terrain Vehicle
2	190120104002	Aditya utkarsh	Design & Fabrication of Ecokart Vehicle
3	190120104003	Aman dixit	All Terrain Vehicle
4	190120104004	Anubhav srivastav	Design & Fabrication of Ecokart Vehicle
5	190120104005	Ayush chand	Solar Desalination System
6	190120104006	Beauty raj	Solar Desalination System
7	190120104007	Bijoy sutradhar	Solar Grass Cutter
8	190120104008	Gatla saiprakash	Design & Fabrication of Ecokart Vehicle
9	190120104009	Kapil kumar pal	Solar Grass Cutter
10	190120104010	Mujammil khan	Solar Grass Cutter
11	190120104011	Nikhil saxena	Design & Fabrication of Ecokart Vehicle
12	190120104012	Pankaj kumar shah	Solar Grass Cutter
13	190120104013	Shoaib alam	All Terrain Vehicle
14	190120102016	Videsh kumar	Solar Desalination System
15	700120104001	Aakash Michael	All Terrain Vehicle
16	700120104002	Ritwik Singh	Solar Desalination System



Director
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "Solar Desalination System"

Submitted by :

Ayush Chand	Roll No. 190120104005
Beauty Raj	Roll No. 190120104006
Videsh Kumar	Roll No. 190120104016
Ritwik Singh	Roll No. 700120104002

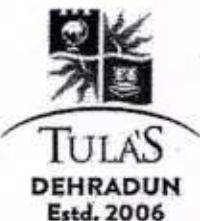
at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
Mr. Devesh Sharma is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature : Dwarka
Supervisor Name : Mr. Devesh Sharma
Supervisor Designation : Assistant Professor
Date : 25/5/2022

Name & Signature of Project Coordinator: Ashwani Kumar Ankit AS


Director
Tula's Institute, Dehradun

Fotriyal
25/5/2022
HOD
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "Solar Desalination System"

Submitted by :

Ayush Chand	Roll No. 190120104005
Beauty Raj	Roll No. 190120104006
Videsh Kumar	Roll No. 190120104016
Ritwik Singh	Roll No. 700120104002

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023

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Supervisor Signature : *Dwarka*
Supervisor Name : Mr. Devesh Sharma
Supervisor Designation : Assistant Professor
Date : 25/5/2022

Name & Signature of Project Coordinator: *Ashwani Kumar Ankit AS*

G.M.
Director
Tula's Institute, Dehradun

Jothiyal
HOD
25/5/2022
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "Solar Grass Cutter"

Submitted by :

Bijoy Sutradhar
Kapil Kumar Pal
Mujammil Khan
Pankaj Kumar Shah

Roll No. 190120104007
Roll No. 190120104009
Roll No. 190120104010
Roll No. 190120104012

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
Mr. Rahul Kumar is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature

Supervisor Name

: Mr. Rahul Kumar

Supervisor Designation

: Assistant Professor

Date

: 25/5/2022

Name & Signature of Project Coordinator:

Director
Tula's Institute, Dehradun

Fathiyal
25/5/22

Department of Computer Science
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

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Kapil Kumar Pal
Mujammil Khan
Pankaj Kumar Shah

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Supervisor Signature

Supervisor Name

: Mr. Rahul Kumar

Supervisor Designation

: Assistant Professor

Date

: 25/5/2022

Name & Signature of Project Coordinator:

Director
Tula's Institute, Dehradun

Fathiyal
25/5/22

Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

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Submitted by :

Bijoy Sutradhar
Kapil Kumar Pal
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Pankaj Kumar Shah

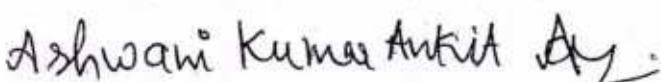
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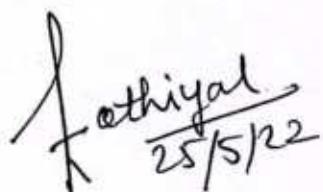
Supervisor Signature
Supervisor Name
Supervisor Designation
Date


: Mr. Rahul Kumar
: Assistant Professor
: 25/5/2022

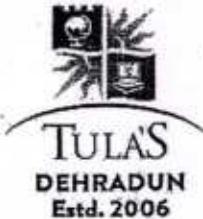
Name & Signature of Project Coordinator:




Director
Tula's Institute, Dehradun


Kothiyal
25/5/22

Department of Computer Science
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

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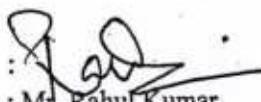
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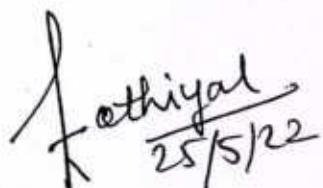
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Supervisor Signature
Supervisor Name
Supervisor Designation
Date


: Mr. Rahul Kumar
: Assistant Professor
: 25/5/2022

Name & Signature of Project Coordinator: *Ashwani Kumar Ankit AY*


Director
Tula's Institute, Dehradun


Fethiyal
25/5/22

Department of Computer Science
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "DESIGN & FABRICATION OF ECOKART VEHICLE"

Submitted by :

Aditya Utkarsh	Roll No. 190120104002
Anubhav Srivastav	Roll No. 190120104004
Gatla Saiprakash	Roll No. 190120104008
Nikhil Saxena	Roll No. 190120104011

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
Mr. Ankit Jain is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature :
Supervisor Name : Mr. Ankit Jain
Supervisor Designation : Assistant Professor
Date : 25/05/2022

Name & Signature of Project Coordinator: Ashwani Kumar Ankit

Director
Tula's Institute, Dehradun

Dr. Kothiyal
25/5/22

Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "DESIGN & FABRICATION OF ECOKART VEHICLE"

Submitted by :

Aditya Utkarsh	Roll No. 190120104002
Anubhav Srivastav	Roll No. 190120104004
Gatla Saiprakash	Roll No. 190120104008
Nikhil Saxena	Roll No. 190120104011

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
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Supervisor Signature : *Mr.*
Supervisor Name : Mr. Ankit Jain
Supervisor Designation : Assistant Professor
Date : 25/05/2022

Name & Signature of Project Coordinator: *Ashwani Kumar Ankit A*

OM
Director
Tula's Institute, Dehradun

Kothiyal
25/5/22

Designation of Coordinator, Dehradun
Tula's Institute, Dehradun



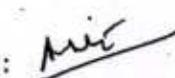
Certificate from the Supervisor/Co-supervisor

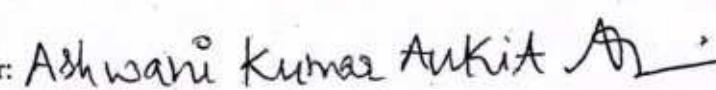
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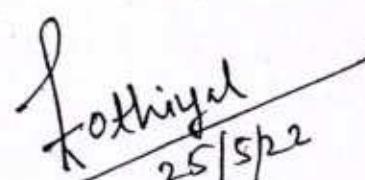
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Supervisor Signature : 
Supervisor Name : Mr. Ankit Jain
Supervisor Designation : Assistant Professor
Date : 25/05/2022

Name & Signature of Project Coordinator: Ashwani Kumar Ankit 


Director
Tula's Institute, Dehradun


Kothiyal
25/5/22

Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "DESIGN & FABRICATION OF ECOKART VEHICLE"

Submitted by :

Aditya Utkarsh	Roll No. 190120104002
Anubhav Srivastav	Roll No. 190120104004
Gatla Saiprakash	Roll No. 190120104008
Nikhil Saxena	Roll No. 190120104011

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
Mr. Ankit Jain is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature	:	
Supervisor Name	:	Mr. Ankit Jain
Supervisor Designation	:	Assistant Professor
Date	:	25/05/2022

Name & Signature of Project Coordinator: Ashwani Kumar Ankit

Director
Tula's Institute, Dehradun

Kothiyal
25/5/22

Tula's Institute Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "All Terrain Vehicle"

Submitted by :

Adarsh Kumar	Roll No. 190120104001
Aman Dixit	Roll No. 190120104003
Shoib Alam	Roll No. 190120104013
Aakash Michael	Roll No. 700120104001

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023

Mr. Anurag Bahuguna is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature : *Anurag 25/5/22*
Supervisor Name : Mr. Anurag Bahuguna
Supervisor Designation : Assistant Professor
Date : 25/5/22

Name & Signature of Project Coordinator: *Ashwani Kumar Ankit*

CKM
Director
Tula's Institute, Dehradun

Fathiyah
25/5/22
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "All Terrain Vehicle"

Submitted by :

Adarsh Kumar	Roll No. 190120104001
Aman Dixit	Roll No. 190120104003
Shoib Alam	Roll No. 190120104013
Aakash Michael	Roll No. 700120104001

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023
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Supervisor Signature : *Anurag* 25/5/22
Supervisor Name : Mr. Anurag Bahuguna
Supervisor Designation : Assistant Professor
Date : 25/5/22

Name & Signature of Project Coordinator: *Ashwani Kumar Ankit* *AS*


Director
Tula's Institute, Dehradun

J. Sohiyal 25/5/22
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "All Terrain Vehicle"

Submitted by :

Adarsh Kumar	Roll No. 190120104001
Aman Dixit	Roll No. 190120104003
Shoib Alam	Roll No. 190120104013
Aakash Michael	Roll No. 700120104001

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Supervisor Signature : *Anurag* 25/5/22
Supervisor Name : Mr. Anurag Bahuguna
Supervisor Designation : Assistant Professor
Date : 25/5/22

Name & Signature of Project Coordinator: *Ashwani Kumar Ankit*

Director
Tula's Institute, Dehradun

Jothiyal 25/5/22
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled : "All Terrain Vehicle"

Submitted by :

· Adarsh Kumar	Roll No. 190120104001
Aman Dixit	Roll No. 190120104003
Shoib Alam	Roll No. 190120104013
Aakash Michael	Roll No. 700120104001

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in 2019-2023

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Supervisor Signature : *Anurag* 25/5/22
Supervisor Name : Mr. Anurag Bahuguna
Supervisor Designation : Assistant Professor
Date : 25/5/22

Name & Signature of Project Coordinator: *Ashwani Kumar Ankit* *AK*

Ch Director
Tula's Institute, Dehradun

Fathiyal 25/5/22
Department of Mechanical Engineering
Tula's Institute, Dehradun



Certificate from the Supervisor/Co-supervisor

This is to certify that the Project Report entitled:

"FIRE EXTINGUISHING ROBOT VEHICLE"

Submitted by

Ashish Waikhom

Roll No. 201803006

Sudarshan Thakuri

Roll No. 201803010

at Tula's Institute, Dehradun for the degree of Bachelor of Technology in Electronics and Communication Engineering is his/her original work carried out by him/her under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree or diploma. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature

: 310512022

Supervisor Name

: Rahul Negi

Supervisor Designation

: Asst. Professor

Date

:

Director
Tula's Institute, Dehradun



CERTIFICATE FROM THE SUPERVISOR

This is to certify that the Project Report entitled "**GREENHOUSE ENVIRONMENT MONITORING AND CONTROLLING SYSTEM**"

Submitted by

Om Prakash Kumar
Kundan Kumar
Shubham Kumar

Roll No.180120102004
Roll No.180120102002
Roll No.180120102006

At Tula's Institute, Dehradun for the degree of **Bachelor of Technology in ELECTRONICS & COMMUNICATION ENGINEERING** is their original work carried out by them under my guidance and supervision. This work is fully or partially has not been submitted for the award of any other degree. The assistance and help taken during the course of the study has been duly acknowledged and the source of literature amply recorded.

Supervisor Signature :
Supervisor Name : Mr. Mohit Kumar
Supervisor Designation : Assistant Professor
Date : 31-05-2022

Name & Signature of External Examiner

Munendra Chauhan
Director
Tula's Institute, Dehradun

**Guest Lecture seminars
and
Workshops**



TULA'S DEHRADUN

INSTITUTE

• Approved by AICTE, Ministry of HRD, Govt. of India • ISO 9001:2015

Affiliated: • Uttarakhand Technical University • Sri Dev Suman Uttarakhand University • Uttarakhand Board of Technical Education

To,

Date: 25/02/2022

The Director

Tula's Institute, Dehradun

Subject: Approval for the Expert Talk on "Scope of Mechanical Engineering in Railway Industry"

Dear Sir,

The Society of Mechanical Engineering, Tula's Institute is going to conduct an expert talk on the topic "**Scope of Mechanical Engineering in Railways**" on 28 February 2022. The guest for the talk is Mr. Yash Khawade who is **Senior Engineer** at Faiveley Transport- A Wabtec Company, **Project Engineer** Edlocus Solutions Pvt.Ltd, Chennai, and **Associate at 3D Printkart, Bengaluru, Research Intern (R&D Drives)** Danfoss India Pvt.Ltd, Chennai.

WORKSHOPS CONDUCTED AS SPEAKER

- Introduction to 3D Printing-Nov 2018, Coorg Dental College, Coorg
- Introduction to Additive Manufacturing- Dec 2018, Mobility India, Bengaluru
- 15 day training on CAE basics, April,2020.(virtual)
- How to build 3D Printer- Dec 2020, Crescent University AICTE(ATAL), Chennai

CERTIFICATIONS AND TRAININGS

- Mastering Ansys CFD (Fluent and ICEEM)- *Udemy, 2020*
- Hyper mesh-Linear Static Analysis-*Udemy, 2020*
- Creo-Parametric -*Indo German Tool Room, 2013*
- Vehicle Dynamics-*Elite Techno Groups, 2013*
- Design and Manufacturing ATV-*15 Days training, 2015*

I am looking for the approval for the above mentioned expert talk and therefore requesting you to kindly grant permission for the same.

Mr. Ankit Jain
Assistant Professor

Director
Tula's Institute, Dehradun

Hemant Ahlawat
25/02/22

Vision:

- To emerge as an academic center of excellence by producing world class professionals promoting innovation and research.

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.

Dhoolikul, P.O. Jelaqui, Chakrata Road
Dehradun - 248011 (U.K India)

www.tulas.edu.in

Approved
25/02/2022



Date: 26/2/2022

Notice

Subject:-Scope of Mechanical Engineering in Railway Industry

The Society of Mechanical Engineering, Tula's Institute is going conduct an expert talk on the topic "**Scope of Mechanical Engineering in Railway Industry**" on 28th February 2022. The guest for the talk is Mr. Yash Khawade senior engineer at Faiveley Transport- A Wabtec Company, Bengaluru. Meeting link will be share through mail.

The details of the Expert talk are as follows:

Name of the Expert: - Mr.Yash Khawade

Designation :- Senior engineer at Faiveley Transport- A Wabtec Company, Bengaluru

Date and Day: - 28/02/2022

Time: - 12:30 P.M. onwards

Mr. Pradeep Kothiyal

HOD (ME Department)
Pradeep Kothiyal 2022
Tula's Institute
Department of Mechanical Engineering
Tula's Institute, Dehradun

Cc to:-

Director's Office

Registrar's Office

Dean's Office


Director
Tula's Institute, Dehradun

Vision

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EXPERT TALK MECHANICAL DEPARTMENT



TULA'S DEHRADUN INSTITUTE

* Approved by AICTE, Ministry of HRD, Govt. of India * ISO 9001:2015
Affiliated: * Uttarakhand Technical University * Sri Dev Suman Uttarakhand University * Uttarakhand Board of Technical Education

To,

Date: 25/02/2022

The Director

Tula's Institute, Dehradun

Subject: Approval for the Expert Talk on "Scope of Mechanical Engineering in Railway Industry"

Dear Sir,

The Society of Mechanical Engineering, Tula's Institute is going to conduct an expert talk on the topic "Scope of Mechanical Engineering in Railways" on 28 February 2022. The guest for the talk is Mr. Yash Khawade who is Senior Engineer at Ferrey Transport- A Wabtec Company, Project Engineer Edlocus Solutions Pvt.Ltd, Chennai, and Associate at 3D Printzkart, Bengaluru, Research Intern (R&D Drives) Danfoss India Pvt.Ltd, Chennai.

WORKSHOPS CONDUCTED AS SPEAKER

- Introduction to 3D Printing-Nov 2018, Coorg Dental College, Coorg
- Introduction to Additive Manufacturing- Dec 2018, Mobility India, Bengaluru
- 15 day training on CAE basics, April,2020.(virtual)
- How to build 3D Printer- Dec 2020, Crescent University AICTE(ATAL), Chennai

CERTIFICATIONS AND TRAININGS

- Mastering Ansys CFD (Fluent and ICEEM)- Udemy, 2020
- Hyper mesh-Linear Static Analysis-Udemy, 2020
- Creo-Parametric -Indo German Tool Room, 2013
- Vehicle Dynamics-Elite Techno Groups, 2013
- Design and Manufacturing ATV-15 Days training, 2015

I am looking for the approval for the above mentioned expert talk and therefore requesting you to kindly grant permission for the same.

Mr. Ankit Jain
Assistant Professor

Visions:
• Be emerging as an academic centre producing world class professionals promoting innovation and research

Mission:
• Promote intellectual and skilled human capital generation, employment and entrepreneurship.
• Be a research centre of excellence in multi-disciplinary and diverse.

Approved
Date: 25/02/2022
Director
Tula's Institute, Dehradun

P.D. Salgotra
Chairman

Secretary
Tula's Institute, Dehradun

NOTICE



**TULA'S
DEHRADUN** INSTITUTE

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Affiliated: * Uttarakhand Technical University * Sri Dev Suman Uttarakhand University * Uttarakhand Board of Technical Education

Date: 26/2/2022

Notice

Subject:-Scope of Mechanical Engineering in Railway Industry

The Society of Mechanical Engineering, Tula's Institute is going conduct an expert talk on the topic "Scope of Mechanical Engineering in Railway Industry" on 28th February 2022. The guest for the talk is Mr. Yash Khawade senior engineer at Faiveley Transport- A Wabtec Company, Bengaluru. Meeting link will be share through mail.

The details of the Expert talk are as follows:

Name of the Expert: - Mr. Yash Khawade

Designation :- Senior engineer at Faiveley Transport- A Wabtec Company, Bengaluru

Date and Day: - 28/02/2022

Time: - 12:30 P.M. onwards

Mr. Pradeep Kothiyal

HOD (ME Department)

Yash Khawade
Yash Khawade
Department of Mechanical Engineering
Tula's Institute, Dehradun

Cc to:

Director's Office

Registrar's Office

Dean's Office

Vision:
• To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:
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• Be educational centre of excellence of multi ethnicity and diversity.

Director, P.O. Sahiba, Chaudhary Road
Dehradun-248011 (Uttarakhand India)

www.tulas.in

Director
Tula's Institute, Dehradun

Press Release of Expert Talk on “Scope of Mechanical Engineering in Railway Industry”

The Society of Mechanical Engineering, Tula's Institute conducted an expert talk on the topic “Scope of Mechanical Engineering in Railway Industry” on 28th February 2022. The guest for the talk was **Mr Yash Khawade** Senior Engineer at Faiveley Transport- A Wabtec Company, Bengaluru. He also has specialization in following in the following areas introduction to 3D Printing-Nov 2018, Dental College, introduction to Additive Manufacturing- Dec 2018, Mobility India, Bengaluru ,15 day training on CAE basics, April,2020.(virtual) ,How to build 3D Printer- Dec 2020, Crescent University AICTE(ATAL), Chennai

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Hyper mesh-Linear Static Analysis-Udemy, 2020

Creo-Parametric -Indo German Tool Room, 2013

Vehicle Dynamics-Elite Techno Groups, 2013

Design and Manufacturing ATV-15 Days training, 2015

OBJECTIVE

The objective of this expert talk was to understand how the overhead line systems need specifications to be written, designs to be reviewed and technical queries to be answered which falls in the purview of mechanical engineers. Some of them diversify and become track engineers which entail the same functions, but the focus shifts to the track systems.

The responsibilities and assignments of train operations are loosely referred to as *Open Line*. A great deal of emphasis is placed on open line experience. Indeed, there are few cases of people who have succeeded in the organization without a significant tenure on the *Open Line*.

From a general public's point of view the most exciting tasks are related to accident relief and traffic restoration. **IRSME** is responsible for designing, acquiring / building and maintenance of the accident relief infrastructure and organization. In times of emergency, the appropriate officer is responsible for mobilizing the **Accident Relief Medical Equipment (ARME)** and **Accident Relief Trains (ART)**. Accidents are times of great stress and anxiety. Inquiries and investigation into the cause can carry on for months after a major accident.



Director
Tula's Institute, Dehradun

OUTCOMES OF THE EVENT

The new trends and future scope of mechanical engineering in railway industry mechanical engineers in Indian railways look for **train operations like crew management, motive power ability, traffic restoration, repair and rolling stock management and manufacturing etc.**

- Carrying out the secondments for experimental methods of railway vehicles dynamics.
- Carrying out the secondments for theoretical methods of railway vehicles dynamics.
- Carrying out the secondments for theoretical methods of mechanical structures fatigue.
- Organization of three study visits for experimental methods of railway vehicles.
- Dynamics Organization of one study visit for experimental methods of mechanical structures fatigue.
- Provision of software package for simulation of railway dynamics operational.

The Mechanical Engineer will design and deliver embedded train control systems. The candidate will work as part of the hardware, electronics, and software development team to develop safety products for rail applications. This individual will be responsible for designing all facets of mechanical assemblies for railroad control systems, including CNC metal components, moulded plastic components, electronics enclosures, cabling, thermal management, vibration / shock resistance, weatherproofing, structural tower components, weldments and optimization for cost / manufacturing / installation.



Dr. Ashok Kumar
Director
Tula's Institute, Dehradun

EVEN POSTER

DEPARTMENT OF MECHANICAL
ENGINEERING IS ORGANISING

EXPERT TALK ON

**SCOPE OF MECHANICAL
ENGINEERING IN RAILWAY
INDUSTRY**

SPEAKER

**MR. YASH
KHAWADE**

**SENIOR ENGINEER
FAIVELEY TRANSPORT - A
WABTEC COMPANY ,
BENGALURU**



**28TH FEBRUARY, 2022
12:30 PM ONWARDS**

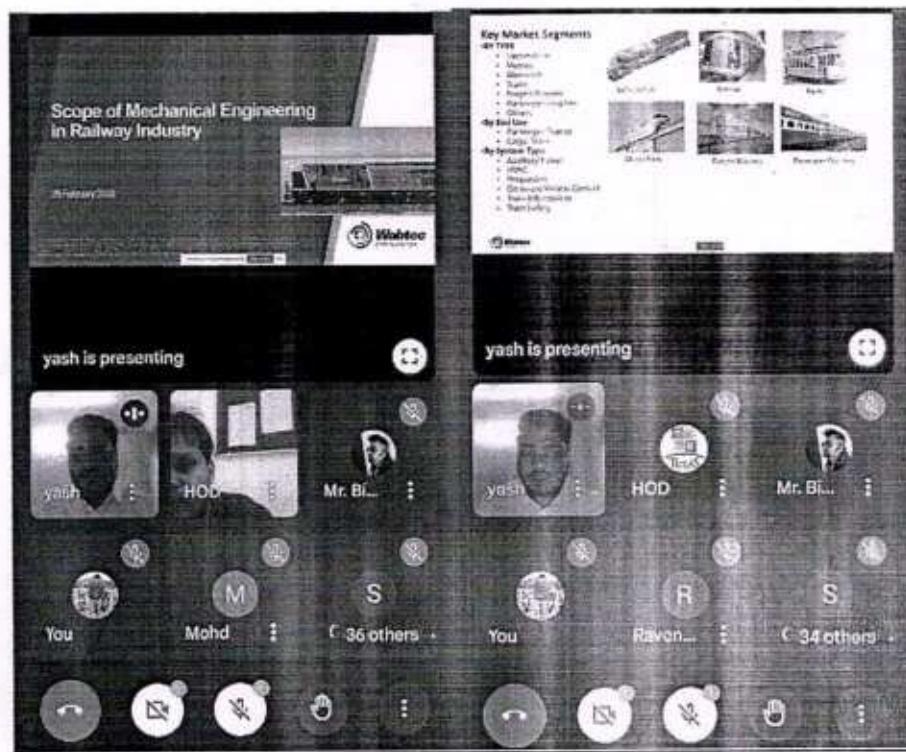
LIVE ON Google Meet



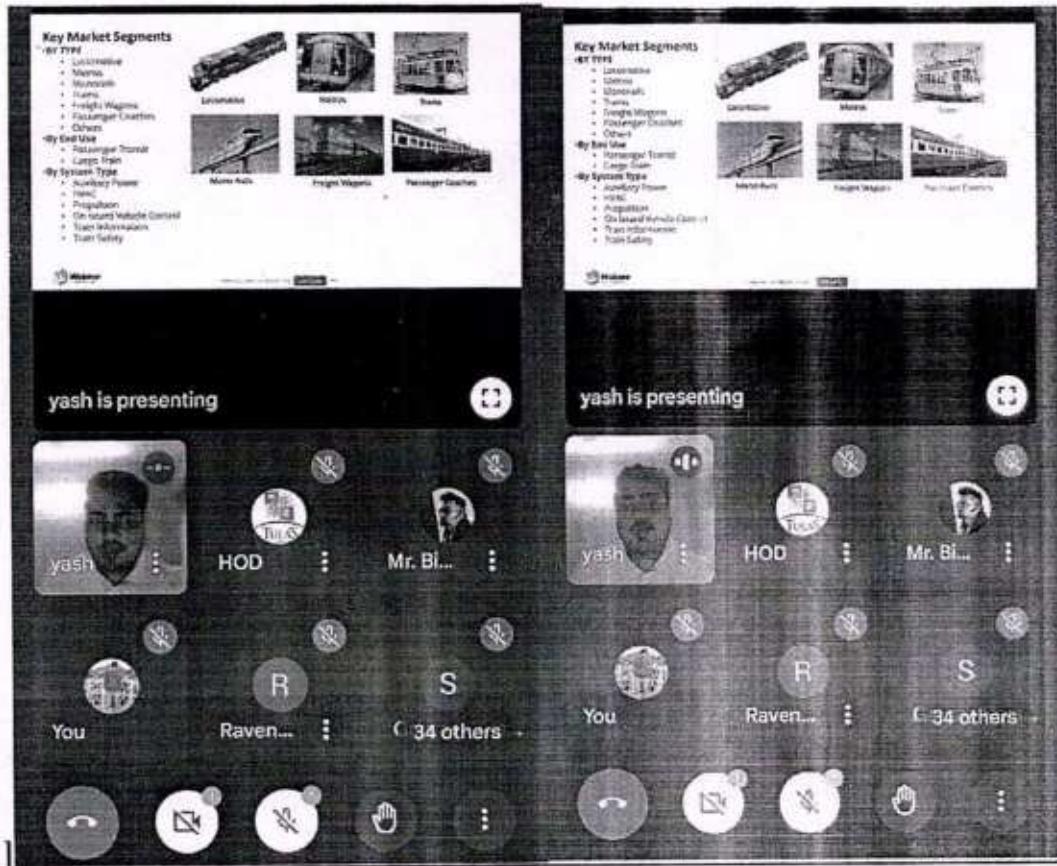
**COORDINATOR: MR. ANKIT JAIN (ASSISTANT PROFESSOR, M.E. DEPARTMENT)
CONTACT DETAILS : 7669049518**

Director
Tula's Institute, Dehradun

LIVE ATTENDANCE RECORD

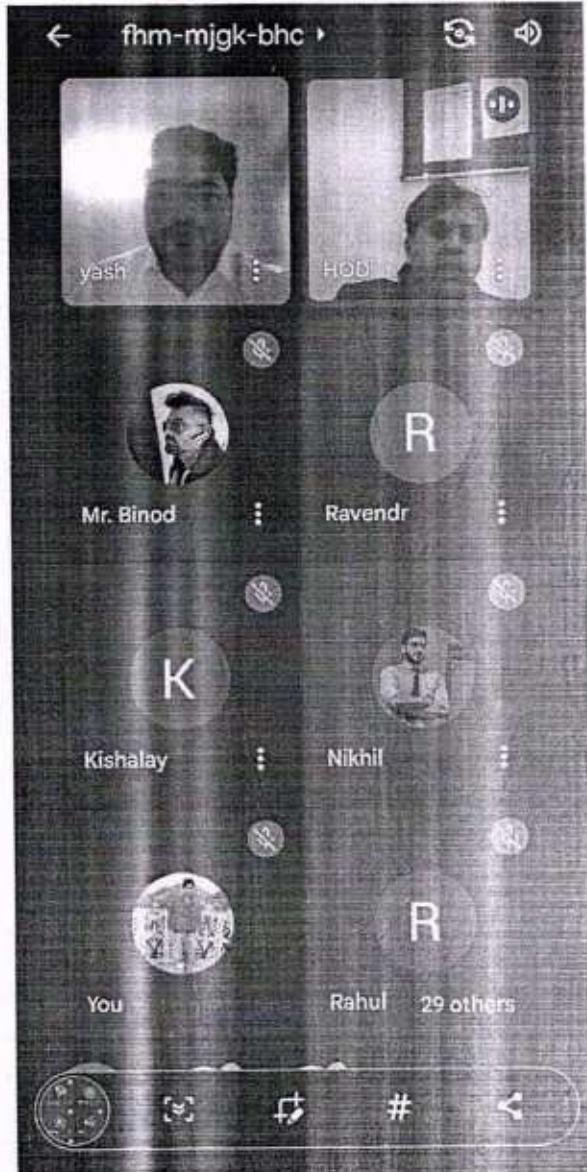



Director
Tula's Institute, Dehradun



1

Arvind
Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun



TULA'S DEHRADUN

INSTITUTE

• Approved by AICTE, Ministry of HRD, Govt. of India • ISO 9001:2015
Affiliated: • Uttarakhand Technical University • Sri Dev Suman Uttarakhand University • Uttarakhand Board of Technical Education

To,

Date: 18/02/2022

The Director
Tula's Institute, Dehradun

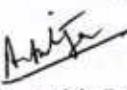
Subject: Approval for the Expert Talk on "Recent Trends in Solar Energy"

Dear Sir,

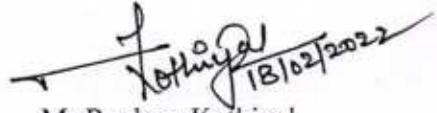
The Society of Mechanical Engineering, Tula's Institute is planning to conduct an expert talk on the topic "**Recent Trends in Solar Energy**" on 24 February 2022. The guest for the talk is Dr.Gopal Nandan who is Professor in Department of Mechanical & Industrial Engg. Amity University Noida.

Dr. Gopal Nandan obtained PhD from Indian Institute of Technology Roorkee in the area of Nuclear Reactor Safety in 2011. Dr. Nandan earned his ME degree from BITS Pilani (Rajasthan) in 2000. He obtained B.Sc (Engineering) in Mechanical Engineering from B. C. E. Bhagalpur (A Govt. Engineering College of Bihar, Affiliated to T.M.B. University, Bhagalpur) in 1998. He has published sixteen research papers in various peer-reviewed international journals and conferences. His major research interest includes Nuclear reactor safety, Heat transfer, FEM, CFD, Fuel cells, Phase change materials. He is reviewer of seven International Journals. He has fifteen years of teaching and research experience. At present Dr. Nandan is serving at Amity University Uttar Pradesh as Professor in the department of Mechanical and Automation Engineering. Prior to this he was associated with DIT University Dehradun, COE, Roorkee and BITS Pilani (Rajasthan). Currently he is supervising students of PhD and M Tech.

I am looking for the approval for the above mentioned expert talk and therefore requesting you to kindly grant permission for the same.


Mr. Ankit Jain
Assistant Professor
Mechanical Engineering


Director
Tula's Institute, Dehradun

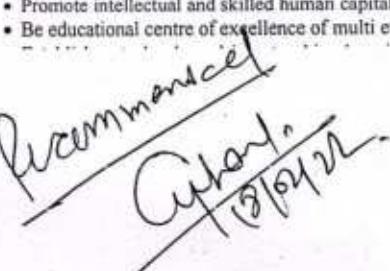

Mr. Pradeep Kothiyal
Head of Department
Mechanical Engineering

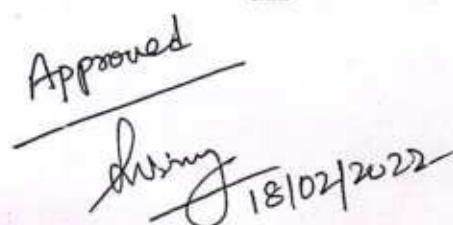
Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.


Dr. Girish Chandra
18/02/2022


Approved
Dr. Shrawan Kumar
18/02/2022

 Dholikot, P.O. Selaqui, Chakrata Road
Dehradun - 248011 (U.K India)

 www.tulas.edu.in



Date: 21/2/2022

Notice

Subject: - Recent trends in solar energy

The Society of Mechanical Engineering, Tula's Institute conducted an expert talk on the topic "Recent Trends in Solar Energy" on 24th February 2022. The guest for the talk was Dr. Gopal Nandan obtained PhD from Indian Institute of Technology Roorkee.

Meeting link will be share through mail.

The details of the Expert talk are as follows:

Name of the Expert: - Dr. Gopal Nandan

Designation: - Professor in department of mechanical & industrial engineering at IIT Roorkee.

Date and Day: - 24/02/2022

Time: - 02:00 P.M. onwards

Mr. Pradeep Kothiyal

HOD (ME Department)

Tula's Institute

Department of Mechanical Engineering
Tula's Institute, Dehradun

Cc to:-

Director's Office

Registrar's Office

Dean's Office

Director
Tula's Institute, Dehradun

Vision

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- Be educational centre of excellence of multi ethnicity and diversity.

Compose

Mail

Inbox 5,009

Starred

Snoozed

Sent**Drafts** 81

More

Chat

Spaces



No spaces yet

Create or find a space



Tula's Institute
Director
Tula's Institute, Dehradun

Meet

Dr. Gopal Nandan

to me, HOD

Dear Mr. Ankit,

Thank you very much for inviting me for an expert talk. I shall be available to deliver the talk in the giv

Ankit Jain

Sir I request you to deliver an expert talk for our students on recent trends in Solar energy on 24.02.2022. Kind

postmaster@amity.edu.in

Your message to gnandan@amity.edu.in couldn't be delivered. gnandan wasn't found at amity.edu.in. ankit.jain

Ankit Jain <ankit.jain@tulas.edu.in>

to gnandan, HOD

Sir

I request you to deliver an expert talk for our students on recent trends in Solar energy on 24.02.2022. Kindly accept our request for the same.

Thanks & Regards

Ankit Jain

Assistant Professor

Tula's Institute

Dehradun

Compose

Mail

Inbox 5,009

Starred

Snoozed

Sent**Drafts** 81

More

Chat

Spaces

Tula's Institute, Dehradun
Director



No spaces yet

Create or find a space

Meet

Dr. Gopal Nandan

to me, HOD

Dear Mr. Ankit,

Thank you very much for inviting me for an expert talk. I shall be available to deliver the talk in the gi

With Best Regards,

**Prof. (Dr.) Gopal Nandan
Head Student Affairs, ASET**

Professor, ME Department
Amity University Uttar Pradesh
Sector 125, Noida – 201 313, U.P
Tel.:+91(0)-120-439-2729
Mobile: +91- 94129 55789
Website: www.amity.edu/aset

[Message clipped] [View entire message](#)

THE DEPARTMENT OF
MECHANICAL ENGINEERING
IS ORGANIZING

**AN EXPERT TALK ON
RECENT TRENDS IN SOLAR ENERGY**



Tula's
Institute DEHRADUN

SPEAKER

**DR. GOPAL
NANDAN**

Professor
(PhD. IIT Roorkee)



**24TH FEBRUARY, 2022
2:00 PM ONWARDS**

LIVE ON



Google Meet

FOR ALL THE STUDENTS OF M.E. DEPARTMENT

COORDINATOR: MR. ANKIT JAIN (ASSISTANT PROFESSOR, M.E. DEPARTMENT)
CONTACT DETAILS : 7669049518

A handwritten signature in blue ink, appearing to read "G.N." or "Gopal NANDAN".

Director
Tula's Institute, Dehradun

Press Release of Expert Talk on “Recent Trends In Solar Energy”

The Society of Mechanical Engineering, Tula's Institute conducted an expert talk on the topic **“Recent Trends in Solar Energy”** on **24th February 2022**.The guest for the talk was **Dr. Gopal Nandan obtained PhD from Indian Institute of Technology Roorkee** in the area of Nuclear Reactor Safety in 2011. Dr. Nandan earned his ME degree from BITS Pilani (Rajasthan) in 2000. He obtained B.Sc (Engineering) in Mechanical Engineering from B. C. E. Bhagalpur (A Govt. Engineering College of Bihar, Affiliated to T.M.B. University, Bhagalpur) in 1998. He has published sixteen research papers in various peer-reviewed international journals and conferences. His major research interest includes Nuclear reactor safety, **Heat transfer, FEM, CFD, Fuel cells, Phase change materials**. He is reviewer of **seven International Journals**. He has fifteen years of teaching and research experience. Currently he is supervising students of PhD and M.Tech.

OBJECTIVE

The objective of this expert talk was to understand how Solar energy is playing a pivotal role in compensating the electrical energy as there is short fall in this energy due to more demand and decline trends of conventional source of energies exhaustion of fuels like coal, petroleum, natural gases and constant of environmental and climatic changes to cope up this photovoltaic installation is being done in an electrical system to compensate and enhance the energy an photovoltaic installation in an electrical system is made from the assembly of various photovoltaic units that uses solar energy to produce the electricity in a cheaper way from sun power. Till now the use and scope of solar energy is limited and has not reached up to masses Moreover the efficiency of the system is also low due to which the output is not sufficient as compared to input as in some installed case of solar panel it has been observed that efficiency is not more than 27%. To make it versatile and more useful for the masses newer trends and innovations will help.



Director
Tula's Institute, Dehradun

OUTCOMES OF THE EVENT

- Over the past decade, the cost of solar has fallen dramatically.
- New technologies promise to increase efficiency and lower costs further.
- Solar energy will soon be unbeatable compared to fossil fuels.

Solar energy has come a long way in a decade. Back in 2010, the global market was small and highly dependent on subsidy regimes in countries such as Germany and Italy. This year there will be more than 115 (GW) of solar installed across the world, which is more than all other generation technologies put together. It is also increasingly low cost, especially in sunnier regions where it has already become the lowest-cost form of new electricity generation. In the coming years, technology improvements will ensure that solar becomes even cheaper. It could well be that by 2030, solar will have become the most important source of energy for electricity production in a large part of the world. This will also have a positive impact on the environment and climate change. Going forward the solar industry has very clear cost-reduction roadmaps, which should see solar costs halving by 2030. There is already a move in place towards higher-efficiency modules, which can generate 1.5 times more power than existing, similarly sized modules today using a technology called tandem silicon cells. These are going to have a large impact going forward.

In addition, there are production innovations coming down the pipeline that will reduce the amounts of costly materials such as silver and silicon used in the manufacture of solar cells, as well as innovations such as bifacial modules which allow panels to capture solar energy from both sides. The other important innovation is around how best to integrate solar into our homes, businesses and power systems. This means better power electronics and a greater use of low-cost digital technologies. What this means is that solar will reach, in many parts of the world, a leveled cost of energy that will make it unbeatable compared to fossil fuels. Given that solar is so easy and quick to install, not to mention flexible after all, solar can be used to power something as small as a watch or as large as a city it should mean that solar installations continue to grow over the coming decade. This could also be very good for the climate. Now that is something bright to write about.



Dr. A.M. Singh
Director
Tula's Institute, Dehradun

EVEN POSTER

THE DEPARTMENT OF
MECHANICAL ENGINEERING
IS ORGANIZING

AN EXPERT TALK ON RECENT TRENDS IN SOLAR ENERGY



SPEAKER

DR. GOPAL NANDAN

Professor
(Ph.D. IIT Roorkee)



**24TH FEBRUARY, 2022
2:00 PM ONWARDS**

LIVE ON



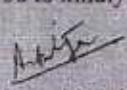
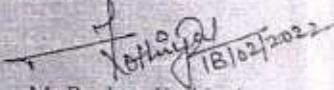
Google Meet

FOR ALL THE STUDENTS OF M.E. DEPARTMENT

**COORDINATOR: MR. ANKIT JAIN (ASSISTANT PROFESSOR, M.E. DEPARTMENT)
CONTACT DETAILS : 7669049518**

A handwritten signature in blue ink, appearing to read "AJ".
Director
Tula's Institute, Dehradun

EXPERT TALK MECHANICAL DEPARTMENT

 TULA'S DEHRADUN INSTITUTE <small>* Approved by AICTE, Ministry of HRD, Govt. of India * ISO 9001:2015 Affiliated: * Uttarakhand Technical University * Sri Dev Saman Uttarakhand University * Uttarakhand Board of Technical Education</small>	
To, The Director Tula's Institute, Dehradun	Date: 18/02/2022
Subject: Approval for the Expert Talk on "Recent Trends in Solar Energy"	
Dear Sir,	
The Society of Mechanical Engineering, Tula's Institute is planning to conduct an expert talk on the topic "Recent Trends in Solar Energy" on 24 February 2022. The guest for the talk is Dr. Gopal Nandan who is Professor in Department of Mechanical & Industrial Engg. Amity University Noida.	
Dr. Gopal Nandan obtained PhD from Indian Institute of Technology Roorkee in the area of Nuclear Reactor Safety in 2011. Dr. Nandan earned his ME degree from BITS Pilani (Rajasthan) in 2000. He obtained B.Sc (Engineering) in Mechanical Engineering from B. C. E. Bhagalpur (A Govt. Engineering College of Bihar, Affiliated to T.M.B. University, Bhagalpur) in 1998. He has published sixteen research papers in various peer-reviewed international journals and conferences. His major research interest includes Nuclear reactor safety, Heat transfer, FEM, CFD, Fuel cells, Phase change materials. He is reviewer of seven International Journals. He has fifteen years of teaching and research experience. At present Dr. Nandan is serving at Amity University Uttar Pradesh as Professor in the department of Mechanical and Automation Engineering. Prior to this he was associated with DIT University Dehradun, COE, Roorkee and BITS Pilani (Rajasthan). Currently he is supervising students of PhD and M Tech.	
I am looking for the approval for the above mentioned expert talk and therefore requesting you to kindly grant permission for the same.	
 Mr. Ankit Jain Assistant Professor Mechanical Engineering	 Mr. Pradeep Kothiyal Head of Department Mechanical Engineering
Vision: • To emerge as an academic centre producing world class professionals promoting innovation and research.	
Mission: • Promote intellectual and skilled human capital, generation employment and entrepreneurship. • Be educational centre of excellence of multi ethnicity and diversity.	
<i>Recommended Goyal 18/02/2022</i>	
<i>Approved Kothiyal 18/02/2022</i>	
<i>ChS Director Tula's Institute, Dehradun</i>	

 Dhokla, P.O. Selang, Chakura Road
Dehradun - 248311 (Uttarakhand, India)

 www.tulas.org.in

NOTICE



**TULA'S
DEHRADUN**

INSTITUTE

* Approved by AICTE, Ministry of HRD, Govt. of India * 25(1)(b) of 2018
Affiliated * Uttarakhand Technical University * Shri Dev Sanskruti Uttarakhand University * Uttarakhand Board of Technical Education

Date: 21/2/2022

Notice

Subject: - Recent trends in solar energy

The Society of Mechanical Engineering, Tula's Institute conducted an expert talk on the topic "Recent Trends in Solar Energy" on 24th February 2022. The guest for the talk was Dr. Gopal Nandan obtained PhD from Indian Institute of Technology Roorkee.

Meeting link will be share through mail.

The details of the Expert talk are as follows:

Name of the Expert: - Dr. Gopal Nandan

Designation: - Professor in department of mechanical & industrial engineering at IIT Roorkee.

Date and Day: - 24/02/2022

Time: - 02:00 P.M. onwards

Mr. Pradeep Kothiyal

HOD (ME Department)
Tula's Institute

Cc to:-

Director's Office

Registrar's Office

Dean's Office

Value:

- To bring about an academic culture including world class infrastructure promoting innovation and research.

Mission:

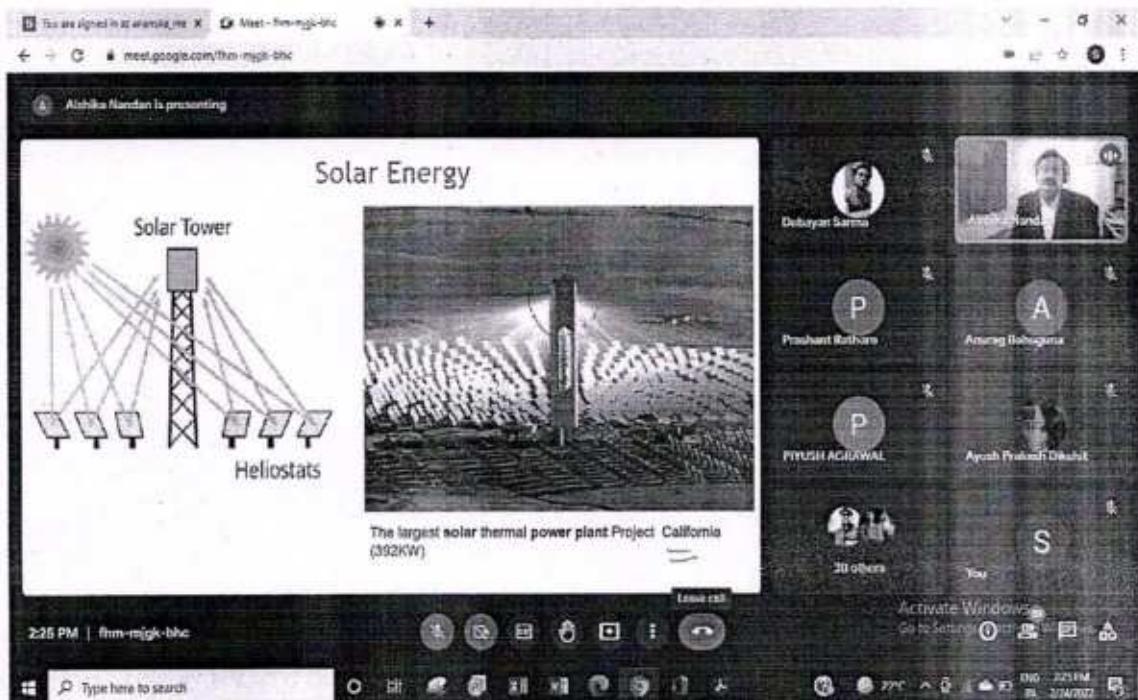
- To imbue intellectual and skilled human capital for better employment and competitiveness.
- To be an eminent centre of excellence of multi-cultural and diversity.

Zoom - S.C.P.O. Sevika Chhatra Akash
Gangotri - 24/02/2022 (14:00 hrs)

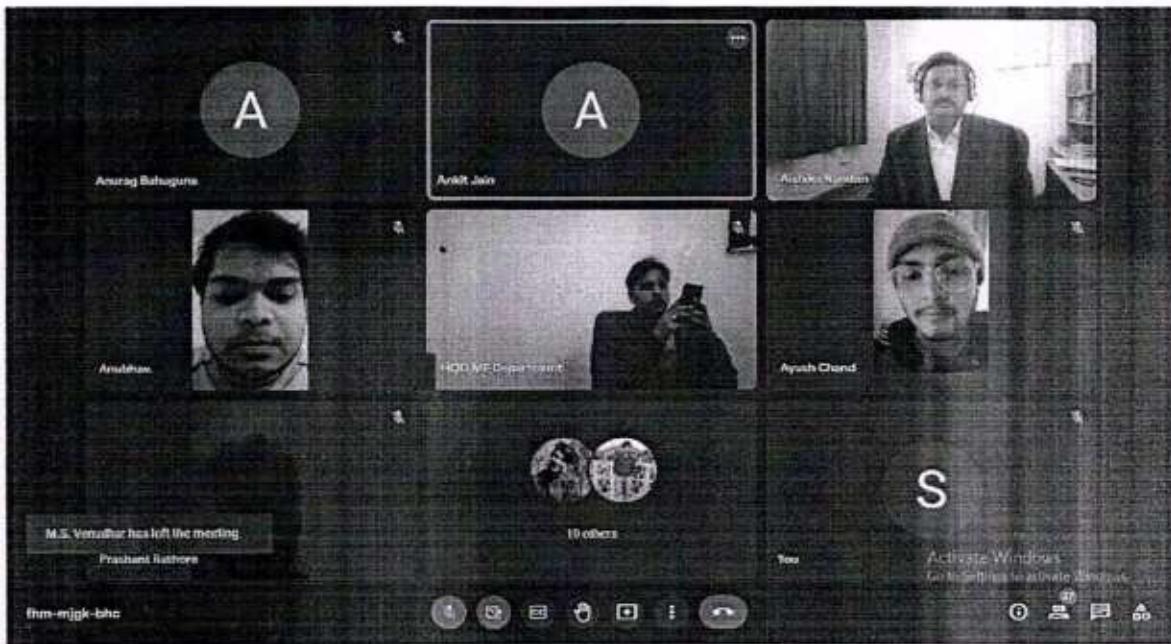
www.tulasit.ac.in

Director
Tula's Institute, Dehradun

LIVE ATTENDANCE RECORD

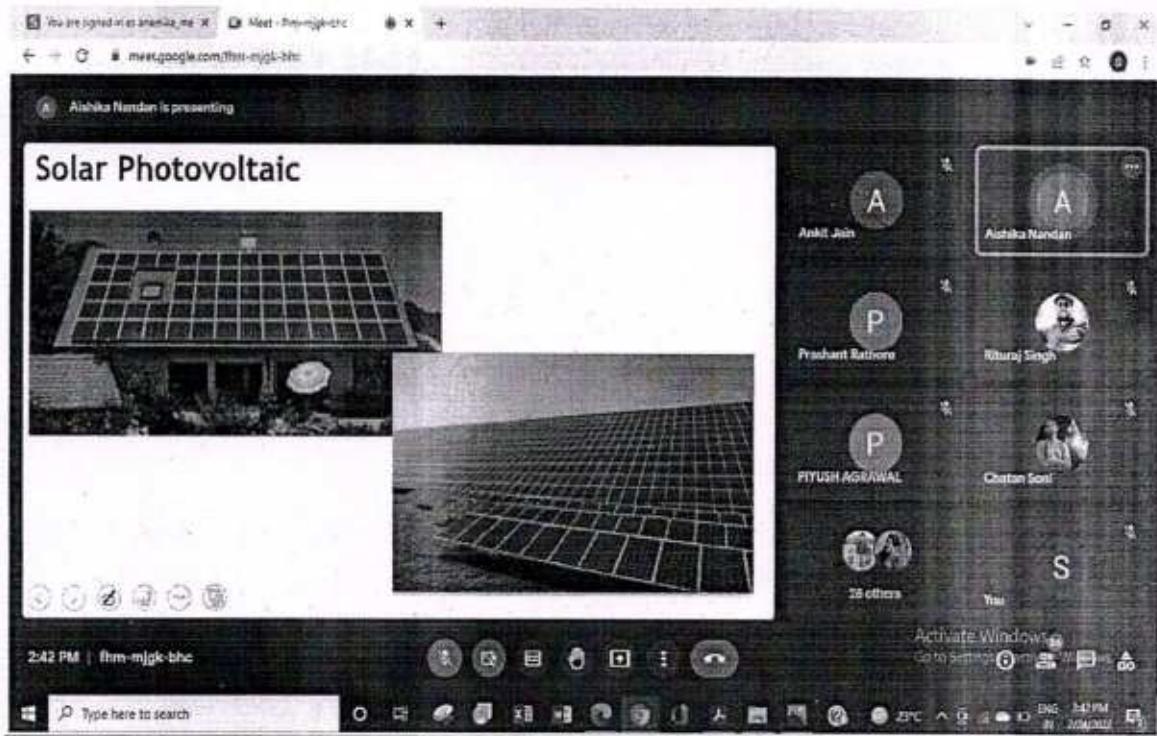



Director
Tula's Institute, Dehradun



A screenshot of a Google Meet video conference. The main content area displays a presentation slide titled '7. Solar Heat for Industrial Processes'. The slide features a large image of a solar furnace facility in a mountainous area. Below the image, the text reads 'The Solar Furnace of Odeillo, In Font-Romeu-Odeillo-Via (Pyrénées-Orientales, France)'. On the right side of the screen, a participant named 'Aishika Nandan' is shown presenting. The participant list on the right includes 'Anubhav', 'Prashant Rathore', 'Ritupriya Singh', 'PITUSH AGRAWAL', 'Chetan Soni', and '28 others'. The bottom of the screen shows the Windows taskbar with various icons and system status information.


Director
Tula's Institute, Dehradun



C. Director
Tula's Institute, Dehradun



TULA'S DEHRADUN

INSTITUTE

• Approved by AICTE, Ministry of HRD, Govt. of India • ISO 9001:2015

Affiliated: • Uttarakhand Technical University • Sri Dev Suman Uttarakhand University • Uttarakhand Board of Technical Education

Date: 25/11/2021

To
Director
Tula's Institute, Dehradun

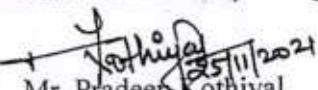
Subject: Approval for the Expert Talk on "Micromachining of quartz material with electro chemical spark machining"

Dear Sir,

The Society of Mechanical Engineering, Tula's Institute conducted an expert talk on the topic "**Micromachining of quartz material with electro chemical spark machining**" on 27th December 2021. The guest for the talk was Dr. Rahul S. Mulik who is Associate Professor in Department of Mechanical & Industrial Engg. Indian Institute of Technology, Roorkee, Uttarakhand.

He is having around 10 years of experience in different prestigious Institutes of India; currently he is working in Department of Mechanical & Industrial Engg. Indian Institute of Technology, Roorkee, Uttarakhand. He is member of Institute/Dept. Faculty Assessment Committee. He receives Best Paper Award many times in India and Abroad. He is working on different International Collaborations Projects and Govt. of India Funded Projects. The total numbers of participants were 40.

I am looking for the approval for the above mentioned expert talk.
I am therefore requesting you to kindly grant permission for the same.


Mr. Pradeep Kothiyal
Head of Department
Mechanical Engineering
Department of Mechanical Engineering
Tula's Institute, Dehradun

Vision

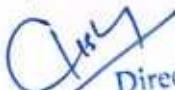
- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.

 Dhoikot, P.O. Selaqui, Chakrata Road
Dehradun - 248011 (U.K. India)

 www.tulas.edu.in


Director
Tula's Institute, Dehradun



Ref. No.....Tula's/SME/2512/01

Date: 25/12/21

Notice

It is to inform all the students and staff of Department of Mechanical Engineering that the **Society of Mechanical Engineering**, Tula's Institute conducting an expert talk on the topic "**Micromachining of quartz material with electro chemical spark machining**" on **27th December 2021**. The guest for the talk is Dr. Rahul S. Mulik, Associate Professor in Department of Mechanical & Industrial Engineering, Indian Institute of Technology, Roorkee, Uttarakhand.

Mr. Pradeep Kothiyal
HOD (ME Department)
Tula's Institute
Department of Mechanical Engineering
Tula's Institute, Dehradun

Copy To-

1. Director Office:
2. Dean Academics Office:
3. Department Notice Board

For Kind Information
For Kind Information

Director
Tula's Institute, Dehradun

Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.

Here are some pictures of event-

DEPARTMENT OF MECHANICAL
ENGINEERING IS ORGANISING

EXPERT TALK ON

**Micro Machining Of Quartz Material with
Electro Chemical Spark Machining**



SPEAKER

**DR. RAHUL
S. MULIK**

Associate Professor in
Mechanical and Industrial
Engineering Department
at IIT Roorkee



27th December, 2021
10:30 am Onwards

LIVE ON Google Meet

Coordinator: Mr. Pradeep Kothiyal (HOD M.E Department), 9808310569



Director
Tula's Institute, Dehradun

From: Devesh Sharma <devesh.sharma@tulas.edu.in>

Sent: 21 December 2021 03:52 PM

To: RSM@iitr.ac.in; rahul.mulik@me.iitr.ac.in

Cc: HOD ME Department <me.hod@tulas.edu.in>

Subject: [SUSPECTED SPAM] Invitation for expert talk to be held on 27 december 2021

Respected Sir,

This mail is to invite you for the expert talk on the topic "Micromachining of Quartz material with electrochemical spark machining" which is to be held on 27 december 2021 i.e on monday via online mode.

you are cordially invited as the guest lecturer.

kindly revert the mail confirming your presence for the day.

Feel free to contact me for any query.

Regards

thank you

Mr. Devesh Sharma

(Assistant Professor)

Mechanical Department

Tula's Institute

Dehradun, Uttarakhand

Mob- 9808980782



Director
Tula's Institute, Dehradun



HOD ME <me.hod@tulas.edu.in>

to Rahul

Noted sir

Thankyou

Regards

Dec 27, 2021, 7:42 PM

On Mon, Dec 27, 2021, 12:04 PM Rahul MULIK <rahul.mulik@me.iitr.ac.in> wrote:

Dear Professor,

Please find details of Pan. Adhar and bank details attached herewith.

With thanks and regards,

Dr. Rahul S. MULIK,

Associate Professor,

Department of Mechanical & Indl. Engg.

Indian Institute of Technology (IIT) Roorkee.

Roorkee- Uttarakhand

India - 247667

Ph. 0091 1332 285761

M: 8941921969

Email: rsm@iitr.ac.in

rsmprod@gmail.com

skype: rahul.mulik2

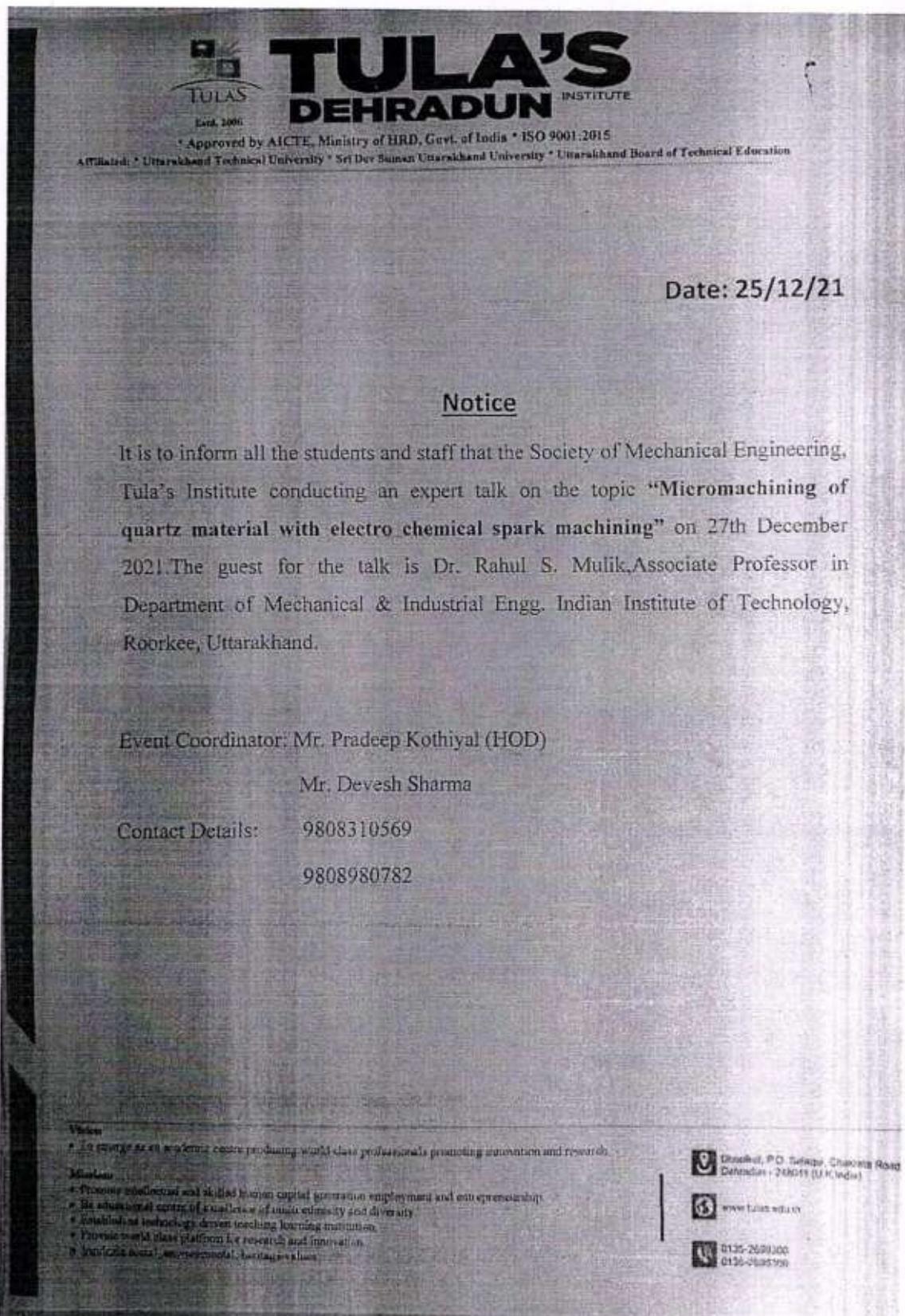
https://www.iitr.ac.in/departments/ME/pages/People+Faculty+Rahul_S_Malik.html

Google Scholar: <https://scholar.google.com/citations?user=3FvUR1cAAAAJ&hl=en>

Director

Tula's Institute, Dehradun

Press Release of Expert Talk on “Micromachining of quartz material with electro chemical spark machining”



Date: 25/12/21

Notice

It is to inform all the students and staff that the Society of Mechanical Engineering, Tula's Institute conducting an expert talk on the topic "**Micromachining of quartz material with electro chemical spark machining**" on 27th December 2021. The guest for the talk is Dr. Rahul S. Mulik, Associate Professor in Department of Mechanical & Industrial Engg. Indian Institute of Technology, Roorkee, Uttarakhand.

Event Coordinator: Mr. Pradeep Kothiyal (HOD)

Mr. Devesh Sharma

Contact Details: 9808310569

9808980782

三

* The magazine's print and digital editions are produced with class-leading editorial, design, production and research.

14

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 - Re-establishing centre of excellence of research, education and diversity
 - Sustainable technology driven teaching learning institution
 - Providing world class platform for research and innovation
 - Encouraging research in environmental, technological areas

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01.35-2629300

 Director
Tula's Institute, Dehradun

Topic of Expert Talk

The Society of Mechanical Engineering, Tula's Institute conducted an expert talk on the topic "Micromachining of quartz material with electro chemical spark machining" on 27th December 2021. The guest for the talk was Dr. Rahul S. Mulik who is Associate Professor in Department of Mechanical & Industrial Engg. Indian Institute of Technology, Roorkee, Uttarakhand.

He is having around 10 years of experience in different prestigious Institutes of India, currently he is working in Department of Mechanical & Industrial Engg. Indian Institute of Technology, Roorkee, Uttarakhand. He is member of Institute/Dept. Faculty Assessment Committee. He receives Best Paper Award many times in India and Abroad. He is working on different International Collaborations Projects and Govt. of India Funded Projects. The total numbers of participants were 40.

OBJECTIVE

- The objective of this expert talk was to understand
- How to increase efficiency of micro machine in the field of conventional mode and robotics.
 - Laser Welding.
 - Material characterization, Modelling, FMS, CFD and Optimization.
 - System engineering, Human factors approach in system design.
 - Role of automation in Micro/Nano Manufacturing.
 - Interaction between Laser and work piece. Melt pool Kinematics during Laser beam micromachining.
 - Rapid Prototype and Polishing Fluids.
 - Advanced research area or the combination of different areas from Mech. Engg. Including design, industries and thermal so the one person get the flavour of all the area and can try to last there area of research



Director
Tula's Institute, Dehradun

OUTCOMES OF THE EVENT

The Expert talk on Micro manufacturing brought together experts, faculty members and participants to learn about micro manufacturing and their applications. This course has been successfully conducted by the joint efforts of thirty one eminent speakers from different reputed academic institutions, scientists from R & D houses, and practicing engineers from industries. Participants were exposed to important practical topics like metrology for measurement of micro and Nano features using SEM, TEM, and EDAX etc. Emerging thermal micromachining processes which include electric discharge micromachining, laser beam micromachining, ion beam micro-/Nano- machining as well as chemical micromachining, electrochemical micromachining and their variants were also discussed in detail with many applications. Experts also emphasized on the need for better understanding of these micro manufacturing techniques to better utilize them. As a part of the course, the participants had lab visit to several micro manufacturing facilities available in the institute and were exposed to the various capabilities existing in IIT Kanpur which can be useful for their research.



Director
Tula's Institute, Dehradun

REC Rahul Malik is presenting

In presence of magnetic field
(North pole)

11:35 AM | Expert talk by Dr. Rahul S. Malik

Type here to search

Rahul Malik HOD ME Department Saurabh Pandey

A Anmol Kushwaha Nishit Sharma C Chetan Saini

VISHNU 20200102 15 others S You

11:35 27-12-2021

REC Rahul Malik is presenting

Material selection and its properties

- Innovations in the area of computers, electronics items and communications industry, the role of hard, resistant to scratch and non-conducting advanced materials increased.
- Quartz seems to be an ideal material for fulfill the demand of advance engineering applications. It possesses various chemical and physical properties like hard, brittle chemical inactive and small thermal expansion coefficient.
- Quartz used in the fabrication of piezoelectric elements for such applications as timing, frequency control and frequency selection. The refractive nature of quartz and its high melting point make it perfect for being used in all industrial high temperature processes.

11:36 AM | Expert talk by Dr. Rahul S. Malik

Type here to search

Rahul Malik HOD ME Department Saurabh Pandey

A Anmol Kushwaha Nishit Sharma C Chetan Saini

VISHNU 20200102 15 others S You

11:36 27-12-2021


Director
Tula's Institute, Dehradun

REC 49 Rahul Malik is presenting

The material properties of Quartz

Parameters	Description
Density	$2.2 \times 10^3 \text{ kg/m}^3$
Tensile Strength	$3 \times 10^7 \text{ Pa (N/m}^2\text{)}$
Hardness	13–6.5 Mohs' Scale (N/mm^2)
Young's Modulus	$7.2 \times 10^{10} \text{ Pa}$
Coefficient of Thermal Expansion (22°C to 250°C)	$5.11 \times 10^{-7} \text{ mm/mm}^\circ\text{C}$
Thermal Conductivity (at 20°C)	1.4 W/m°C

11:36 AM | Expert talk by Dr. Rahul S. Malik

REC 49 Rahul Malik is presenting

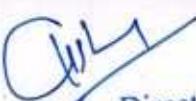
Comparison of MRR with and no magnetic field

- Initially, each experiment was planned for 10 minutes working time duration.
- The weight of the workpiece was calculated before and after the machining in order to calculate the MRR.
- In order to account the variation in MRR (no magnetic field and with magnetic field), MRR improvement ratio was mentioned as a response during the experimentation.

$$\text{MRR improvement (\%)} = \left(\frac{\text{MRR}_{\text{with } \text{mf}} - \text{MRR}_{\text{no } \text{mf}}}{\text{MRR}_{\text{no } \text{mf}}} \right) \times 100$$

where: MRR_{mf} = MRR with magnetic field; $\text{MRR}_{\text{no mf}}$ = MRR no magnetic field

11:37 AM | Expert talk by Dr. Rahul S. Malik


Director
Tula's Institute, Dehradun

Attendance list

Tula's Institute Dehradun
 Department of Mechanical Engg
 Atteendance sheet Expert Talk

Session- 2021-22

S.No.	Student ID	Student Name	Attendance
1	180120104017	Sajan Singh	Sajan
2	690120104002	Chetan Soni	Chetan
3	180120104007	Binod Yadav	Binod yadav
4	690120104006	Rahul Negi	Rahul
5	690120104005	Prateek Thapa	Prateek
6	690120104004	Manjil Subba	Manjil
7	180120104005	Bhushan Pal	Bhushan
8	180120104006	Bhupati Nath	Bhupati
9	690120104003	Giken Karga	
10	180120104002	Arnodd Kushwaha	Arnodd
11	180120104009	Prashant Rathore	Prashant
12	180120104008	Mohith Kokkirala	
13	180120104014	Sabir Ansari	Sabir
14	180120104012	Rituraj Singh	
15	180120104004	Yush Prakash Dikshit	Yush
16	180120104013	Rohan Rana	Rohan
17	180120104003	Anubhaw Sinha	
18	180120104018	Saurabh Pandey	Saurabh
19	180120104016	Sagar Chaudhary	
20	180120104001	Adarsh Gautam	Adarsh
21	180120104010	Rahul Tanti	
22	180120104015	Sachin Kumar	Sachin
23	180120104011	Ranjan gupta	Ranjan



Director
 Tula's Institute, Dehradun

Tula's Institute Dehradun
 Department of Mechanical Engg
 Atteendance sheet Expert Talk

Session- 2021-22

S.No.	Student ID	Student Name	Attendance
1	201901001	Adarsh kumar	Adarsh
2	201901004	Aditya utkarsh	Adity
3	201901009	Aman dixit	Aman dixit
4	201901007	Anubhav srivastav	Anubhav
5	201901015	Ayush chand	Ayush
6	201901012	Beauty raj	Beauty
7	201901013	Bijoy sutradhar	Bijoy
8	201901011	Gatta saiprakash	
9	201901003	Kapil kumar pal	Kapil
10	201901008	Mujammil khan	Mujammil
11	201901006	Nikhil saxena	Nikhil
12	201901016	Pankaj kumar shah	
13	201901017	Shoaib alam	Shoaib
14	201903018	Videsh kumar	Videsh
15	201901018	Aakash Michael	Aakash
16	201901019	Ritwik Singh	

Tula's Institute Dehradun
 Department of Mechanical Engg
 Atteendance sheet Expert Talk

Session- 2021-22

S.No.	Student ID	Student Name	Attendance
1	202001004	Aashish Kumar Yadav	Aashish
2	202001001	Khushi Thapa	Khushi
3	202001002	Vishnu	Vishnu
4	202001005	Anurag Bangotra	Anurag
5	202001006	Md Aasif Javed	Aasif
6	202001007	Ayush Singh	Ayush Singh


 Director
 Tula's Institute, Dehradun

Date: 10/09/2021

NOTICE

SUBJECT :- INVITATION FOR "VISHWAKARMA PUJA" AT TULA'S INSTITUTE "

This is to inform that Society of Mechanical Engineering is going to organize Vishwakarma puja at Tula's institute, Dehradun (**dated on 17-09-2021**) for the students and faculty members of college.

Kindly make sure to mark your presence to make this puja ceremony huge success.

The details of the webinar are as follows:

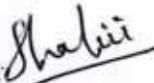
Name of organizer -Mechanical engineering department

Venue - Tula's Institute, Dehradun

Date and Day-17/09/2021, Friday

Time- 10:00 AM. Onwards

Coordinator



*J. Pathak
10/09/2021*
HoD
Department of Mechanical Engineering
Tula's Institute, Dehradun
Mechanical Engineering Department

Cc to:-

Director's Office
Registrar's Office
Dean's Office


Director
Tula's Institute, Dehradun

Society of Mechanical Engineering is going to organise

Vishwakarma Puja



ALL THE RESPECTED FACULTIES AND STAFF
MEMBERS ARE CORDIALLY INVITED

Date: 17th September, 2021 | 10:30 am Onwards

Venue: Tula's Institute, Dehradun

Coordinator - Mr. Pradeep Kothiyal
(HOD Mechanical Engineering Department)
Contact details - 9808310569


Director
Tula's Institute, Dehradun

NOTICE

SUBJECT :- EXPERT TALK ON "EVALUATION OF DATA EXCHANGE FORMAT, IGES DATA REPRESENTATION AND STRUCTURE, STEP ARCHITECTURE AND COLLABORATIVE DESIGN".

This is to inform that Society of Mechanical Engineering is going to organize an expert talk on "evaluation of data exchange format, IGES data representation and structure, step architecture and collaborative design" (**dated on 17-07-2021**) for the students of Mechanical Engineering department. It is mandatory for all the students to register and attend the expert talk.

Meeting link will be share through mail.

The details of the webinar are as follows:

Name of expert -Dr. Abhinash kumar swain

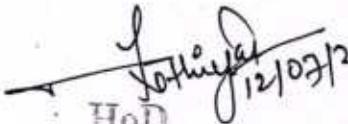
Designation- Professor in department of mechanical & industrial engineering at IIT Roorkee

Topic - evaluation of data exchange format, IGES data representation and structure, step architecture and collaborative design

Date and Day-24/07/2021, Saturday

Time- 11:30 AM. Onwards

Coordinator:



12/07/2021
HOD

Department of Mechanical Engineering Department
Tula's Institute, Dehradun

Cc to:-

Director's Office
Registrar's Office
Dean's Office


Director
Tula's Institute, Dehradun



Tula's
INSTITUTE DEHRADUN

EXPERT TALK ON

Evaluation of data exchange
format, IGES data
representations and structure,
STEP Architecture and
collaborative design

with

Dr. Abinash Kumar Swain

Professor in Department of
Mechanical & Industrial Engineering,
Indian Institute of Technology,
Roorkee, Uttarakhand



SPEAKER

Organized by: Society of Mechanical Engineering

SATURDAY, 24 JULY, 2021 | 11:30 AM ONWARDS

LIVE ON



Google Meet

For all the students of
M.I. Department

for more details contact :-

Mr. Pradeep Kothiyal (HOD Mechanical Engineering Department), 9808310569

Director
Tula's Institute, Dehradun

**Press Release of Expert Talk on "Evaluation of data exchange format,
IGES data representations and structure, STEP Architecture and
collaborative design"**

The Society of Mechanical Engineering, Tula's Institute conducted an expert talk on the topic "Evaluation of data exchange format, IGES data representations and structure, STEP Architecture and collaborative design " on 24th July 2021.The guest for the talk was Dr. Abinash Kumar Swain who is Professor in Department of Mechanical & Industrial Engg. Indian Institute of Technology, Roorkee, Uttarakhand.

He is having around 09 years of experience in differessnt prestigious Institutes of India, currently he is working in Department of Mechanical & Industrial Engg. Indian Institute of Technology, Roorkee, Uttarakhand. He is member of Institute/Dept. Faculty Assessment Committee. He receives High value National Doctoral Fellowship in 2009. He is working on different Govt. of India Funded Projects like DRDO, DST etc..

The total numbers of participants were 40. The objective of this expert talk was to understand the methodologies of data exchange format, IGES data structure etc.

OUTCOMES OF THE WORKSHOP-

- Understanding the data exchange format in CAD systems.
- To understand data representation and structure.
- To analyze STEP architecture and collaborative design.


Dr. Abinash Kumar Swain
Director
Tula's Institute, Dehradun

REC



Abinash Swain is presenting

Evaluation of data - exchange format, IGES data representations and structure, STEP architecture and Collaborative Design

Dr. Abinash Swain
Associate Professor
Department of Mechanical Engineering
Tula's Institute of Engineering & Technology

Abinash Swain

HOD ME Department

S

Sandeep Lakhra

Abhishek Jaiswal

Pooja Chaudhary

K
Kunal Choudhary

V
Vikash Kumar

S
Shalini Manwai

U T
22 others

A
You



Abinash Swain

Yeah. So this is my outline of presentation. So first, I will speak about

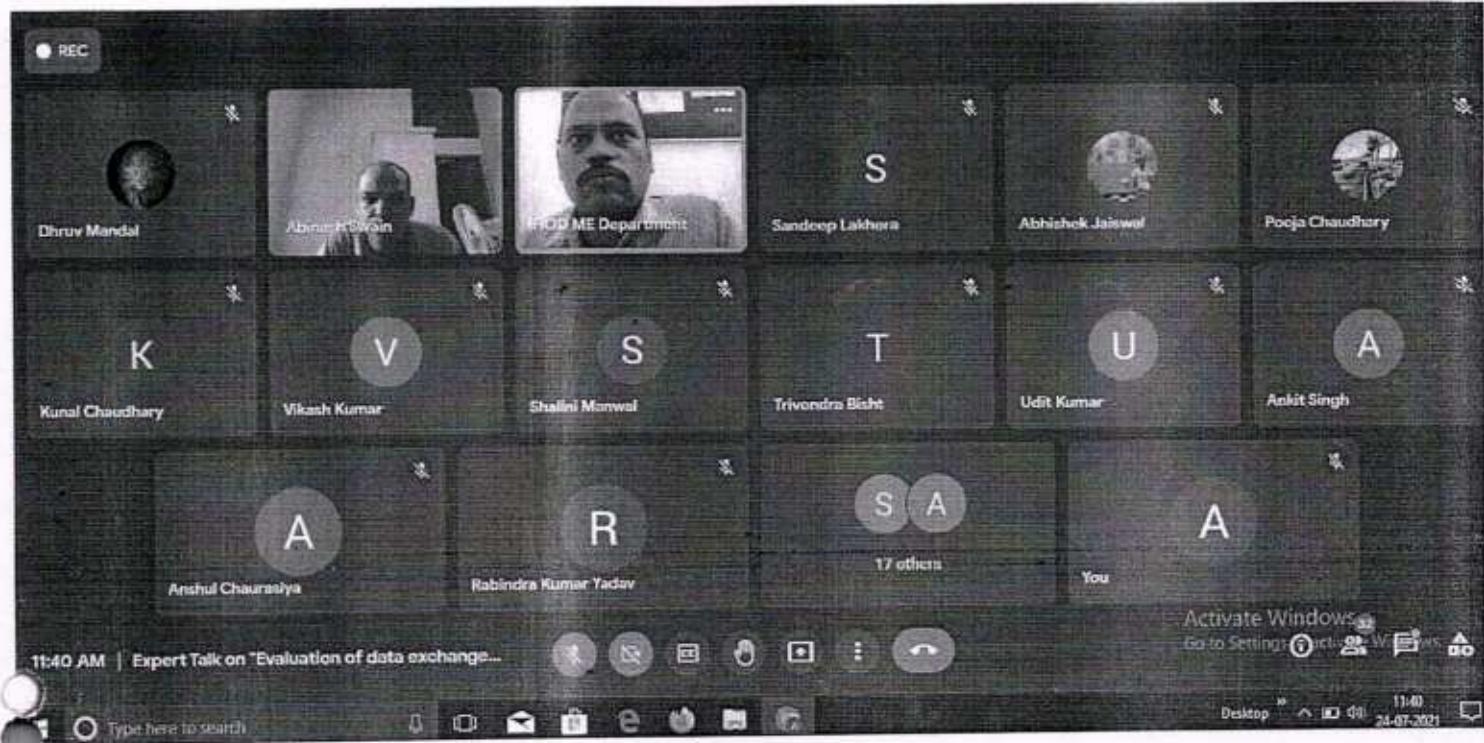
11:38 AM | Expert Talk on "Evaluation of data exchange ..."



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Dr. Abinash Swain

Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun

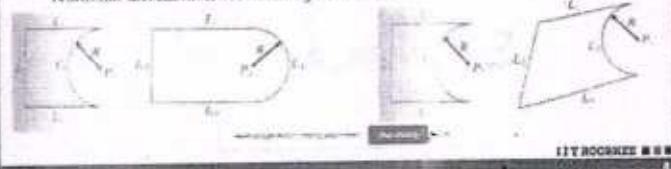
REC

Abinash Swain is presenting

Data transfer between dissimilar systems

Complete product Description: Shape, Non shape, Design data, Manufacturing data

- Shape: Geometrical and topological information as well as part or form features
- Geometry: Actual dimension that define the entities of the object (metric information)
- Topology: Connectivity and associativity of the object entities; it determines the relational information between object entities



11:51 AM | Expert Talk on "Evaluation of data exchange ..."



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Desktop 11:51 24-07-2021



Abinash Swain

HOD ME Departm...

Sandip Lakhara



Pooja Chaudhary



Trivendra Bisht



Saurabh Kumar



Vikash Kumar



U.S.
21 others



You

A handwritten signature in blue ink, appearing to read 'Abinash Swain'.

Director
Tula's Institute, Dehradun



Abinash Swain is presenting

Data transfer between dissimilar systems

Complete product Description: Shape, Non shape, Design data, Manufacturing data

- Design data: Information that designer generate from geometric models for analysis purposes. Example: Mass property, FEM mesh data
- Mass property
 - Surface area
 - Bounding Box
 - Volume
 - Centroid
 - Mass
 - Moment of Inertia



HOD ME Departm...

Sandeep Lakhera



Pooja Chaudhary



Anubhaw Sinha



Saurabh Kumar



Chetan Soni



T V

21 others



You

11:56 AM | Expert Talk on "Evaluation of data exchange ..."



Type here to search



Activate Windows
Go to Settings



11:56



24-07-2021


Director
Tula's Institute, Dehradun

REC

Abinash Swain is presenting

Evolution/history of data exchange format

- * The first tier of efforts was the exchange of shape data only.
 - Topological information was needed to transfer the complete definition of Shape data.
- * The second tier the exchange of complete product description
- * The third tier of efforts is led by the ISO to define exchange standards unified at the international level
- * Summary
 - Shape-based Format
 - Product Data-Based Format
 - ISO standards

12:09 PM | Expert Talk on "Evaluation of data exchange..."




Director
Tula's Institute, Dehradun

**EXPERIENTIAL
LEARNING AND
INDUSTRIAL
VISIT,
EDUCATIONAL
TOURS**



Department of Journalism & Mass Communication conducted a one-day Industrial visit to All India Radio, Dehradun on 25/03/22

Tour Report

Tour de Akashvani

Department of Journalism & Mass Communication conducted a one-day Industrial visit to All India Radio on 25/03/22. Students were excited and thrilled about their excursion tour. The main objective of this tour was to understand the day-to-day working of Akashvani and give students practical exposure about the Media Industry. Students got the opportunity to see the functioning of radio stations.. They were benefited from this visit as they got a chance to discuss range of things with the Programme Executive Senior, Mr Anil Bharti who briefed students and they got to know about the Organisational structure of Akashvani, Advertisement in Radio, also they understood the importance of Radio as a medium & how feedback system work in All India Radio. AIR focuses on the motto 'Bahujan Hitaya, Bahujan Sukhaya' and gives the opportunity to rising talent. Mr Rakesh, Senior Programme Head told students about the Radio Feature and it's important elements, at the same time students understood the role of music in Radio Programme. Vinay Dhyani, Gram Jagat Senior Announcer discussed how important role Akashvani is playing in preserving culture and heritage while at the same time it is facing challenges from Private FM. The Industrial visit concluded with an energetic message from Mr. Dipendra Sivach, Yuvavani Programme Head who told students to come up with creative and constructive ideas and they will get an opportunity to work with All India Radio. Students got in-depth knowledge about the field which shows the success of this visit.



HoD
Department of Journalism & Media
Tula's Institute, Dehradun



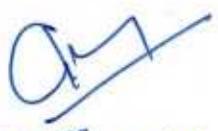
Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun


FID
Director
Department of Journalism
Tula's Institute, Dehradun
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun



DJD
Department of Journalism & Media
Tula's Institute, Dehradun



HoD JoM
Department of Journalism & Media
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

TEACHING THROUGH CASE STUDIES



Director
Tula's Institute, Dehradun

Department of Journalism and Mass Communication

Advertising and Public Relations

BJMC 3rd Semester

Ariel Case Study



"We teach our daughters to stand on their feet, but we don't teach our sons to lend a hand".

Did You Know: Unpaid Work Done By Women across The Globe Is 43 Times The Turnover Of Apple (Source: Oxfam Study)

 Director
Tula's Institute, Dehradun


Department of Journalism & Media
Tula's Institute, Dehradun

If there is one campaign that will truly warm the cockles of your heart, will make you ponder upon how silly our gendered division of labor is and will redefine the ways we think and work- it's right here! PR is not just about bringing in the sales numbers, it's about establishing that connect with the audience/consumer. And, Ariel has done it superbly well! Before proceeding, it's worth watching these two short commercials that have been released under the #ShareTheLoad campaign.

Video URL - <https://youtu.be/wJukf4ifuKs>

Video URL- <https://youtu.be/8QDlv8kfwIM>

Target Audience: Men, Women, Children, Young, Old

Ariel did not settle for a narrow target audience. They wanted to touch base with everyone, regardless of their gender or age. They also target the two most important bonds that a human develops: That of a parent-child and that of a husband-wife.

One ad talks about a father apologizing to his daughter for just encouraging her to be independent but never telling her that household chores are not just the responsibility of a woman. The second ad too has a mother introspecting how she has never taught her son to lend a hand at home. They're also hitting home with the recurring idea of 'ghar-ghar', a childhood game that's a part of almost every Indian's childhood. But have we been doing it right? Have we been wrongly conditioning our children with a positive reinforcement of the gendered and sexist game? Parents also realize that they themselves haven't been role models in this light, be it the father who has never helped in the household work, or be it the mother who never expected the son to help! The TV commercials were the best medium to reach out to the parent generation and the medium did serve its purpose here too!

When it came to engaging with the youth, the millennial audience, who are not that invested in television or TV commercials, Ariel went ahead and launched an online campaign on its Twitter and Instagram handle to propagate the cause. For instance, recently with Promise day coming in, Ariel launched a campaign where they encouraged the men to Show True Love and promise the women in their life that from now on, they will #ShareTheLoad. On Valentines day, similarly, they rolled out a #DateWithLaundry campaign, encouraging men to express their love not by buying gifts, but by changing their thinking and fostering a healthy habit of being equal contributors to all the household work.

Now, coming to the tiny tots. Ariel collaborated with Sesame street and the famous Indian cartoon Galli Galli Sim was used to spread the message of gender equality. This again is a much needed positive move in sensitizing the kids and conditioning them to become more egalitarian humans right from their childhood.

Image Address- <https://prcasestudiesindia.files.wordpress.com/2019/02/ariel-kids-1.jpg?w=739>

Image Address- <https://prcasestudiesindia.files.wordpress.com/2019/02/ariel-kids.jpg?w=739>

A Factual Backing:

While Ariel knew that it would nail the emotional connect bit with their campaign, they did not just stop there. For any audience/consumer to believe an advertisement, facts are always needed! And in this case, the facts presented were not Ariel related. They were laundry or household work related facts that pointed to the alarming nature of the gender disparity we live in.

Laundry Goes Odd-Even:

Yep, you guessed it right! This campaign was introduced in April 2016, when the Odd Even system was on in the capital. This odd even move to curb pollution was adopted in a completely different light here. Ariel laced this concept with #ShareTheLoad and delegated alternate days of work division. The message given was that you buy the Odd Even Ariel pack that comes with an Odd Even special calendar and you remind the men in your home of their share of work at home. Keeping up with the time and spontaneously using the situation to communicate your message is an essential part of Branding and PR process, something that Ariel did brilliantly!

Offline Engagement:

Ariel basically chased you wherever you went in order to remind you of their core message, be it social media, TV, YouTube or even the mall! Ariel has been very actively organizing offline events, inviting a few known faces and having a panel discussion around the topic of gender equality. The events were planned in a way where the audience too had something or

the other to take home and share. The photobooths and information boards were extremely hard hitting and established Ariel's goodwill in every possible way! Bloggers and influencers from around the country are also invited to the event and they are further asked to spread the message.

Men #ShareTheLoad: The Social Impact!

The social impact of this campaign has been a huge hit! Social media has become a fur ball of joy with men, not just from India, but from around the world are sharing how they've started sharing the load. Another important point to be noted here is how even while Ariel is overtly pointing to the gravity of the situation by giving solidly researched statistics, it nonetheless mediates the effect by showing that there is always space to take the first step. It's never too late. In both their commercials too, they've ended the clips with the mother/father reversing the mistake and doing it right! In the course of establishing themselves as a brand fighting for a cause, they did not loose their product: Laundry in the campaign became symbolic of all the household chores that needed to be shared. Now Ariel for the Indian consciousness is not just a washing powder product, it's a cause, it's a feeling, its a sense of empowerment and this speaks volumes about the brilliantly executed branding of the product.

Sonali Dhawan, the MD of P&G India [in conversation with ExchangeForMedia](#) said:

I think I knew this was going to be the impact. I knew that in my heart, those who feel very passionately about the message will make a difference. When we were having this conversation on conditioning we realised that at the age of two we give our children an iPad but they unfortunately learn ABC from school textbooks that are so stereotyped where a doctor is represented by a man whereas a nurse is represented by a lady.



Department of Journalism & Media
Tula's Institute, Dehradun



Director
Tula's Institute, Dehradun

A Expert Talk on “Distributed Generations”

Society of Electrical and
Electronics Engineering &
IEEE Student Chapter Organises



EXPERT TALK ON **“DISTRIBUTED GENERATIONS”**

with

Prof. (Dr.) S.N. Singh

Department of Electrical
Engineering, Indian Institute
of Technology, Kanpur



22 July 2021

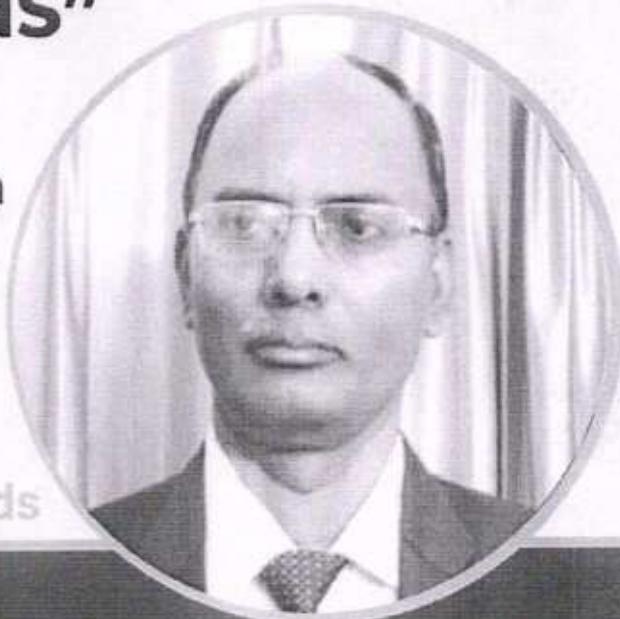
11:00 AM Onwards

LIVE ON



Google Meet

Coordinator:
Mr. Diwaker Pant, 8006904438



The signature of the Director of Tula's Institute, Dehradun.
Director
Tula's Institute, Dehradun

The screenshot shows a video conference interface with two main windows. The top window displays a presentation slide titled 'Indian Institute of Technology Kanpur' with a sub-section 'Renewable Energy Sources (RES)' containing points about its abundance and environmental friendliness, followed by a list of disadvantages like intermittency and low inertia. The bottom window shows a grid of participant icons, each with a name and a small profile picture. The names visible include Dr. Sri Singh, Sudhir Kumar Thakur, Prabhavesh R., Shashikiran, Mr. Vinay Nagi, MITEESH VISHWAKARMA, Mahadev Awarai, and others. The interface includes standard video conference controls like 'REC', 'Share', and 'End Call'.

11:30 AM | Rx-Hydrv-2cv

Dr Sri Singh is presenting

Indian Institute of Technology Kanpur

Renewable Energy Sources (RES)

- ✓ Excellent natural energy sources, available in abundance,
- ✓ Environment friendly, low operating cost and so on,
- ✗ Intermittent and obviously uncontrollable on its own,
- ✗ No or less inertia

Power Electronics Systems (PES)

- Provide proper control, storage and interconnection,
- Power electronics became interface between RES & end user
- ✗ Introduces power quality issues including harmonics
- ✗ Overload capability, Cost are the problem

11:30 AM | Rx-Hydrv-2cv

Dr Sri Singh is presenting

Indian Institute of Technology Kanpur

Distributed Generations

Prof Sri Niwas Singh, FREEIAN, FIEE, FINSCE, FISI, FIEE
Professor (HAG), Department of Electrical Engineering
Indian Institute of Technology Kanpur-208016
Email: sniwas@iitk.ac.in
Former Vice-Chancellor, MMU/T Gorakhpur-273010

Shashikiran, Dr Sri Singh, VINAY KUMAR, Abhishek KUMAR, Jyeshish KUMAR, Shashikiran, Mr. Vinay Nagi, others, You

Director
Tula's Institute, Dehradun

ONE DAY INDUSTRIAL VISIT OF B.TECH DIPLOMA ECE/EEE STUDENTS AT CHIBRO POWER PLANT VIKASH NAGAR DEHRADUN

One day industrial visit was organized by department of Electronics and communication / Electrical and Electronics engineering of Tula's Institute Dehradun (Uttarakhand) for B.tech and diploma students of ECE/EEE at CHIBRO POWER HOUSE vikash nagar , Dehradun on 4 may 2022. Students of the respective department visited the power house where they learn a lot of advanced methodology and technical skills and the work to carried out for the power house operation. Mr Shyam Lal of Chibro Power house guided the students with lot of technical hands on at power house . Students participated in the industrial visit in large number with a wide knowledge of recent technology associated with power generation. Mr. Rahul Negi , Ms. Nanse and Ms. Kusum Lata faculty of ECE and EEE were the faculty of the respective department who was present along with students. The industrial visit was coordinated by Mr. Mukesh Pathela Head of the department of ECE/EEE.




Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun



Chs Y
Director
Tula's Institute, Dehradun



NOTICE

Ref : T1/CSE/2020-21/005

Date : 21.04.2022

It is to inform you all students and faculty member that, Tula's Society Computer Science and Engineering is going to organize a Guest lecture on " National Intellectual Property Awareness Mission (NIPAM) " for B. Tech(CSE), BCA, MCA students on 26 April, 2022 from 11:30 AM - 01:00 PM.

Event Coordinator: Dr. Sandeep Kumar
Designation : Assistant Professor
Contact Number : 9457272262

Regards

Mr Lokesh Kumar
HOD, CSE
Tula's Institute


Director
Tula's Institute, Dehradun

Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

 Dholikot, P.O. Selaqui, Chakrata,
Dehradun - 248011 (U.K India)

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.
- Establish as technology driven teaching learning institution.
- Provide world class platform for research and innovation.
- Inculcate social, environmental, heritage values.

 www.tulas.edu.in

 0135-2699300
0135-2699309

Tulas Institute

Department of Computer Science and Engineering

Event: Guest lecture on, " National Intellectual Property Awareness Mission (NIPAM) " by Ms. Tripti Pandey

Date: 26th April 2022

Organized By: Society of Computer Science and Engineering

Venue: Seminar Hall

Objective: The main purpose of the Guest Lecture on "National Intellectual Property Awareness Mission (NIPAM) was to educate attendees about intellectual property and its rights . It aimed to inculcate the spirit of creativity and innovation to students of higher education and ignite and inspire the students of college/Universities to innovate and protect their creations.

Summary: On the occasion of the 75th anniversary of independence, Government of India has launched the National Intellectual Property Awareness Mission (NIPAM) under the banner "Azadi ka Amrit Mahotsav" to create widespread awareness on IPR through Intellectual Property Offices, Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India on 8/12/2021. The pan-India ambitious mission aims to provide awareness on intellectual property and its rights. The session was started by facilitation of the speaker by Dr. Bharti Kalra in the presence of HOD of CSE department and CSE faculty members. The Speaker Ms Tripti Pandey started her session by emphasizing the importance of the role of a strong IPR(Intellectual Property Rights) ecosystem in the advancement of a country and how IPR is an important tool for the IP holder to become a "Job giver rather than job seeker".

Ms. Tripti Pandey conveyed her valuable insights regarding the various aspects of the National Intellectual Property Awareness Mission (NIPAM) .She threw light on the various aspects related to the working model of how Intellectual property (IP) nurtures and encourages innovation and creativity, thereby contributing towards cultural and economic development of the society. Intellectual Property (IP) refers to the protection of creations of the mind, which have both a moral and a commercial value. IP rights can consists of many types of assets, including patents, copyright and trademarks, design which enable people to earn recognition or financial benefit from what they invent or create.

The lecture continued for more than one hours and concluded with a questionnaire session in which students and faculty members got their queries resolved by the expert .The guest lecture was attended by the students of B.Tech. CSE, MCA. Overall it was a great learning & knowledge experience for students and faculty members as well.

Outcome:

- Students learned the concept of National Intellectual Property Awareness Mission (NIPAM) and its importance.
- Students got educated about the many types of assets in an IP, including patents, copyright and trademarks, design.



Director
Tula's Institute, Dehradun



INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



NiPAM
NATIONAL IP AWARENESS MISSION

Government of India

Ministry of Commerce & Industry

Patent Office Delhi
Boudhik Sampada Bhavan
Plot No. 32, Sector-14
Dwarka, New Delhi-110078

Tel: 011-25300200
011-28032253
Fax: 011-28034315
Email: sukhdeep.ipo@nic.in
Website: www.ipindia.nic.in

NIPAM/PO/DELHI/4/2022/8

Dated: 08/03/2022

To,
Dr. Sandeep Kumar,
Assistant Professor, CSE Dept,
Tula's Institute, Dehradun,
Uttarakhand



Subject: National Intellectual Property Awareness Mission (NIPAM)



Dear Sir,

India is going to celebrate its 75th Anniversary of Independence on 15th August 2022 and on this monumental occasion, a special initiative 'Azadi Ka Amrit Mahotsav' has been undertaken by the Government of India to celebrate our journey since independence.

Under the initiative 'Azadi Ka Amrit Mahotsav', a drive has been launched by our office to impart Intellectual Property (IP) awareness to researchers, as IP can be a very effective tool in attaining the Hon'ble Prime Minister's vision of an Aatmanirbhar Bharat.

We would therefore like to invite your institute to avail the benefit of this drive. The awareness session will be conducted by experts from our Office and there will be no financial implications for your organisation. E-certificates will be issued in favour of your institute, the participants as well as the coordinators.

In case you are interested, you may respond accordingly via a return email and we will do the needful.

With best wishes,

(Mr. Himanshu Mittal)
Examiner of Patents & Designs



Director
Tula's Institute, Dehradun



RGNIIPM_Govt of India @reniinnmior



CGPDTM INDIA @cgpdtn_india



Ministry of Commerce & Industry
Government of India



Tula's
Institute DEHRADUN

**DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING IS ORGANIZING
GUEST LECTURE ON**

**"NATIONAL INTELLECTUAL PROPERTY
AWARENESS MISSION (NIPAM)"**


Director
Tula's Institute, Dehradun

SPEAKER

**TRIPTI
PANDEY**

Examiner of Patents & Designs,
Patent Office, Delhi



APRIL

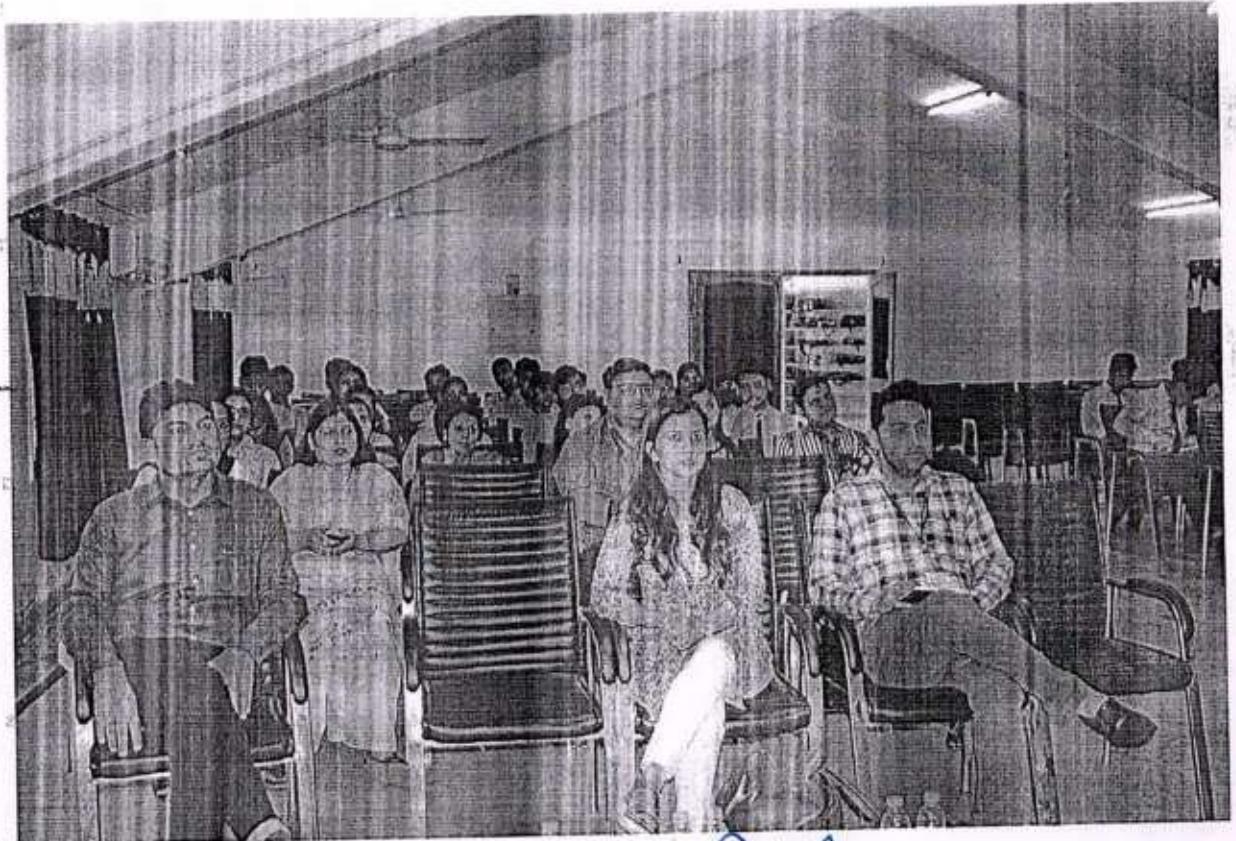
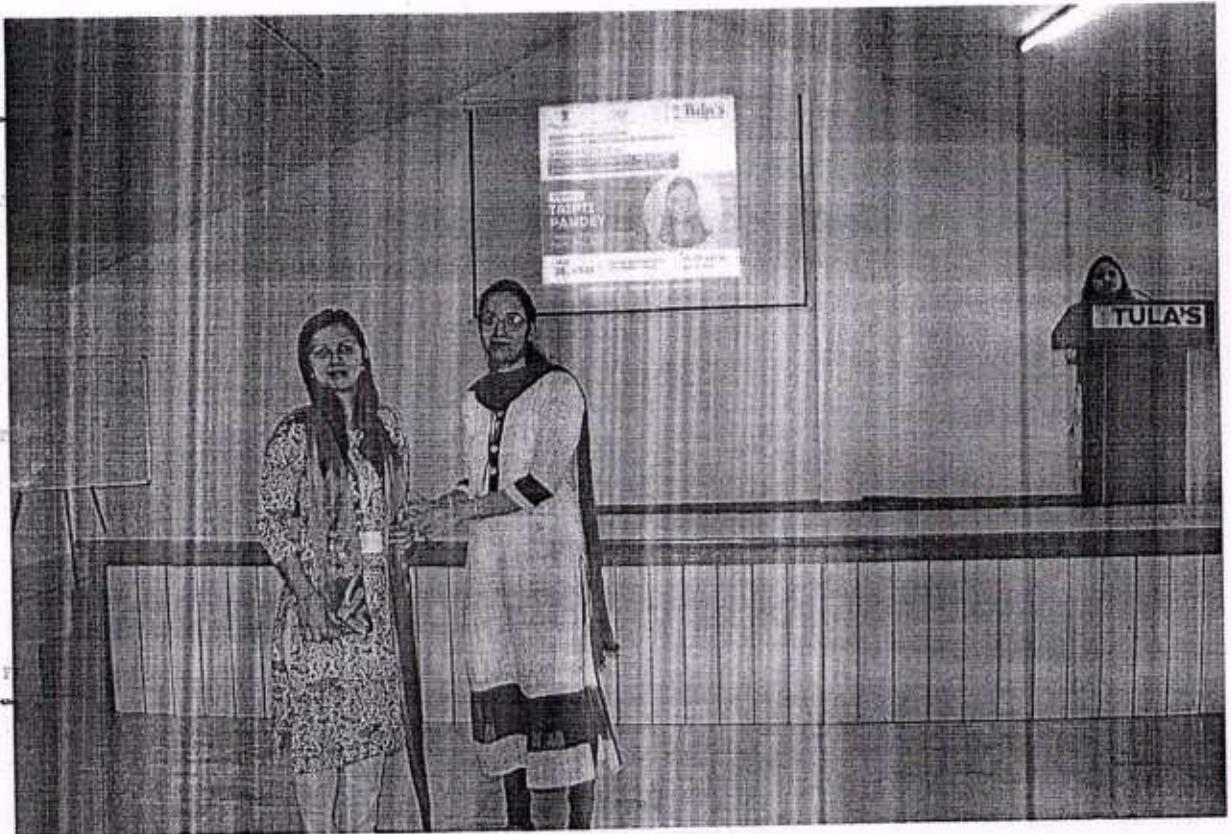
26, 2022

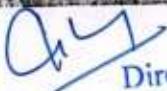
**VENUE: SEMINAR HALL,
TULA'S INSTITUTE**

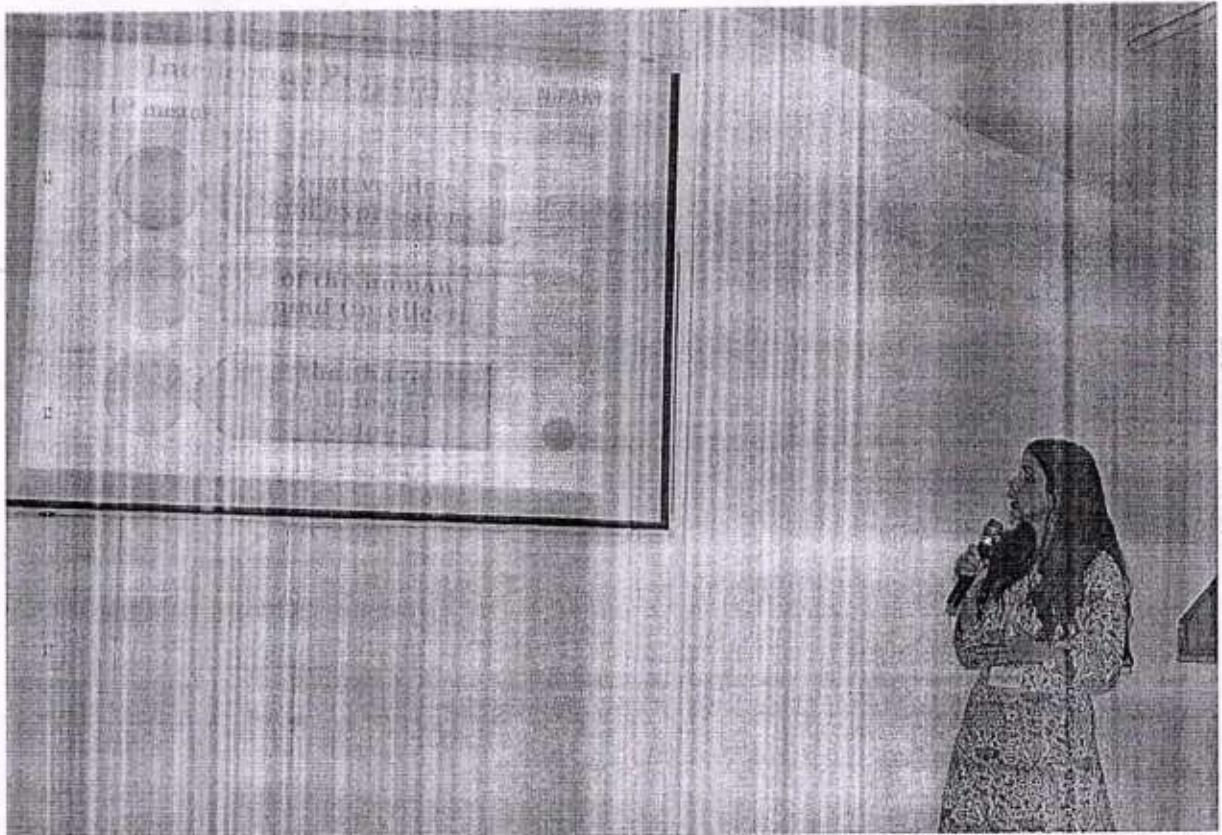
**11:30 AM to
1:00 PM**

COORDINATOR: DR. SANDEEP KUMAR (9457272262)

Photos

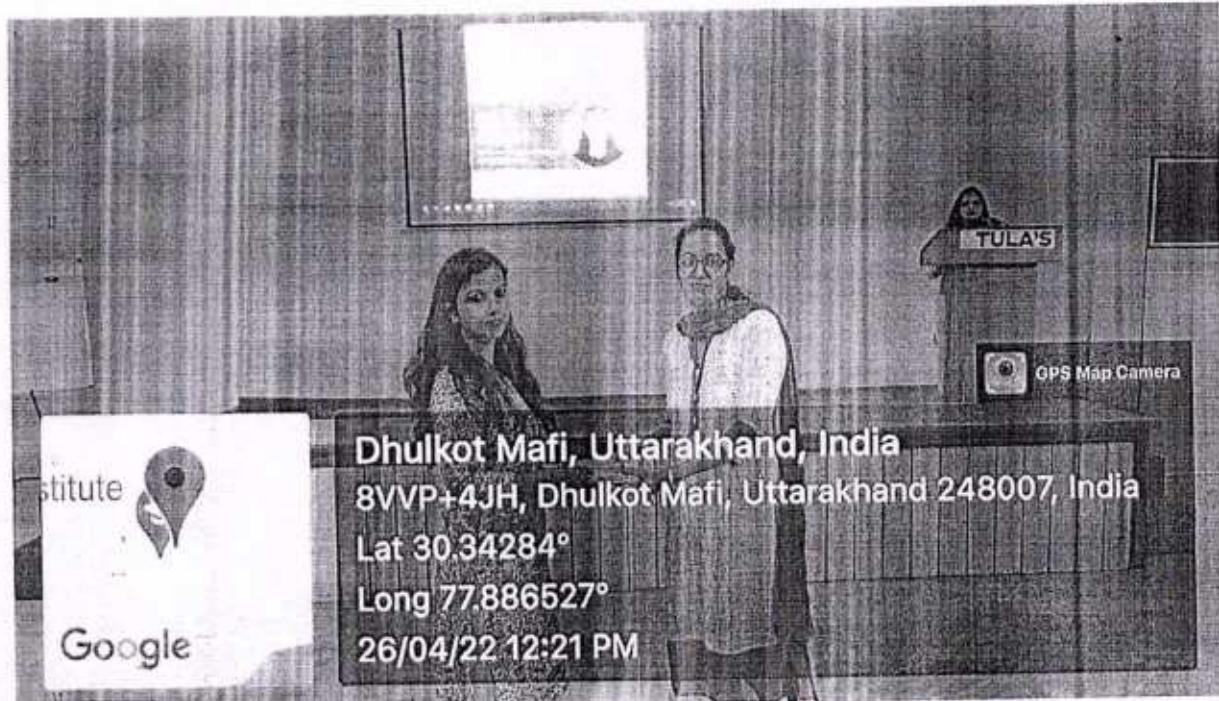


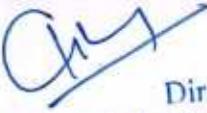

Director
Tula's Institute, Dehradun

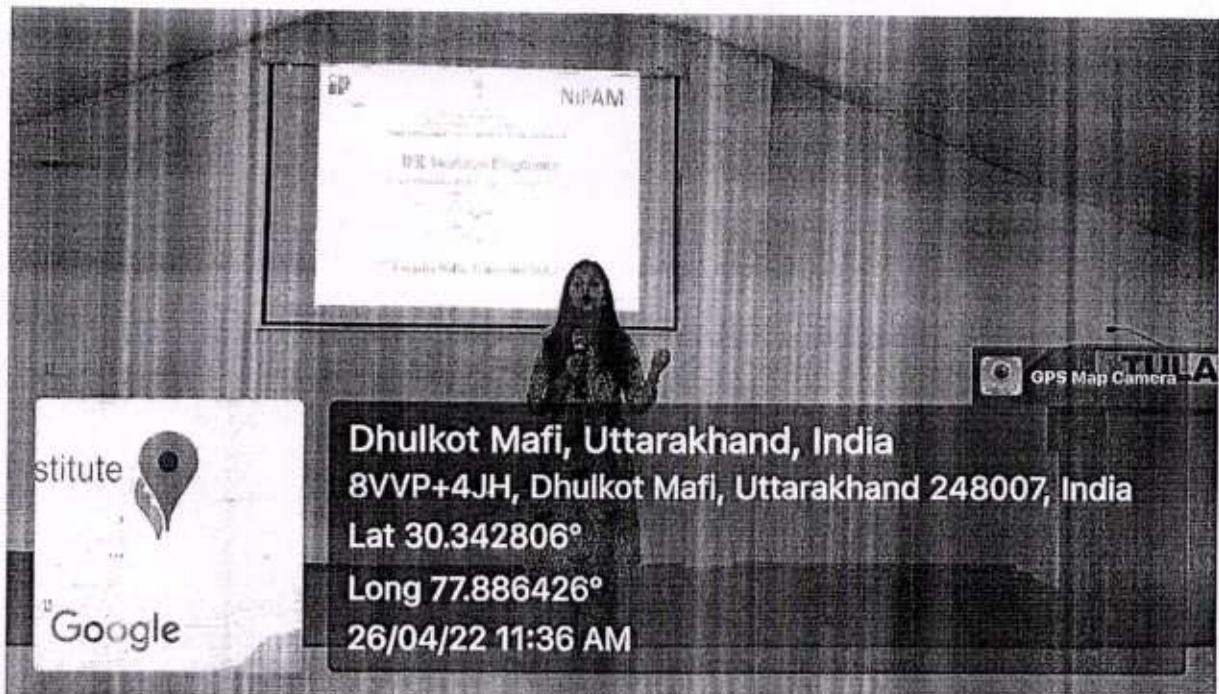



Director
Tula's Institute, Dehradun

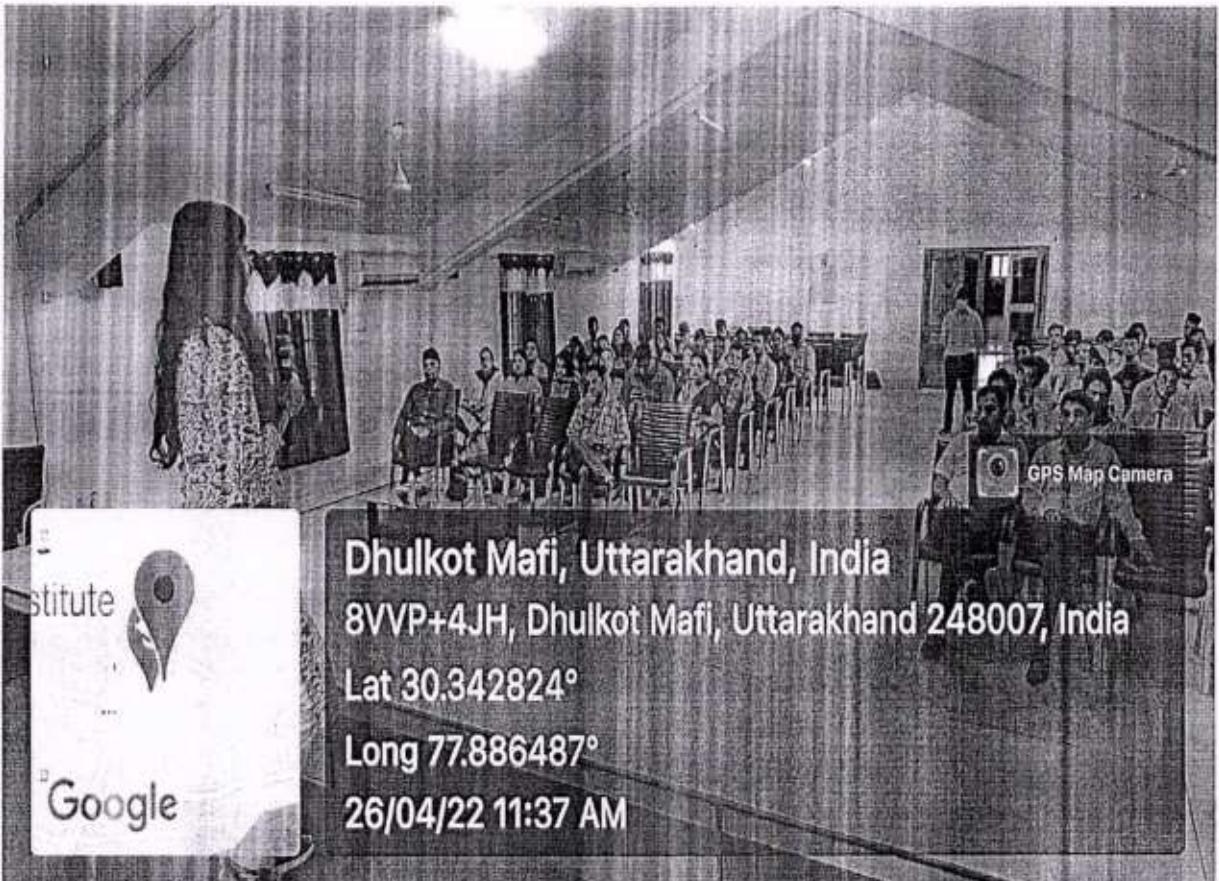
Geo -Tag Photos




Director
Tula's Institute, Dehradun



Dhulkot Mafi, Uttarakhand, India
8VVP+4JH, Dhulkot Mafi, Uttarakhand 248007, India
Lat 30.342806°
Long 77.886426°
26/04/22 11:36 AM

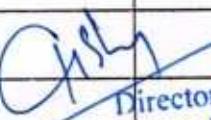


Dhulkot Mafi, Uttarakhand, India
8VVP+4JH, Dhulkot Mafi, Uttarakhand 248007, India
Lat 30.342824°
Long 77.886487°
26/04/22 11:37 AM


Director
Tula's Institute, Dehradun

Tula's Institute Dehradun

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3	Akash.202004051@tulas.edu.in	Akash	CSE	Male	A
4	Dharmendra.202004033@tulas.edu.in	Dharmendra	CSE	Male	Dharmendra
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8	Fallavi.202004075.tulas.edu.in	Fallavi Bitti	CSE	female	Fallavi Bitti
9	Harsh.202004074@tulas.edu.in	Harsh Upadhyay	CSE	Male	Harsh Upadhyay
10	Aarush.202004105@tulas.edu.in	Aarush	CSE	Male	Aarush
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13	Santhak.202004031@tulas.edu.in	Santhak Rana	CSE	Male	S.R.
14	Rajat.202004089@tulas.edu.in	Rajat Singh Rawat	CSE	Male	Rajat Singh Rawat
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20	Abhishek.202004063@tulas.edu.in	Abhishek Pal	CSE	Male	Abhishek
21	Govind.202004013@tulas.edu.in	Govind Singh Panwar	CSE	Male	Govind
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23					
24					
25					
26					
27					


 Director
 Tula's Institute, Dehradun

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4	goswamiakash469@gmail.com	Akash Giri	CSE	Male	Kunal Akash
5	dhirendra.202004033@tulas.edu.in	Dhirendra Singh	CSE	Male	Dhirendra Singh
6	anjaliprasad3216@gmail.com	Anjali Prasad	CSE	Female	Anjali Anjali Prasad
7	atul.202004050@tulas.edu.in	Atul Kumar	CSE	Male	Atul Atul Kumar
8	arpitgoyal841@gmail.com	Arpit Goyal	CSE	Male	Arpit Arpit Goyal
9	ankitk.202004070@tulas.edu.in	Ankit kumar rai	CSE	Male	Ankit Ankit kumar rai
10	manikant.202004045@tulas.edu.in	Manikant kumar	CSE	Male	Manikant
11	rishabh.201904041@tulas.edu.in	Rishabh Bhadani	CSE	Male	
12	asifahmed3615@gmail.com	Asif Ahmed	CSE	Male	Asif
13	maithanianurag56@gmail.com	Anurag Maithani	CSE	Male	Anurag Maithani
14	jhaankit1615@gmail.com	Ankit jha	CSE	Male	
15	jaymsharma@outlook.com	Jay Sharma	CSE	Male	
16	mansi.202004058@tulas.edu.in	Mansi ray	CSE	Female	Mansi
17	ayush.202004057@tulas.edu.in	AYUSH SHYAMLA	CSE	Male	
18	anurag.202004120@tulas.edu.in	Anurag raj	CSE	Male	Anurag Anurag
19	aditya.202004056@tulas.edu.in	Aditya Choudhary	CSE	Male	Aditya
20	vivek15292001@gmail.com	vivek sharma	CSE	Male	
21	praveen.201904027@tulas.edu.in	Praveen Singh	CSE	Male	
22	aftaaalam0@gmail.com	Aftaf Aalam	CSE	Male	Aftaf
23	amaan.202004113@tulas.edu.in	Amaan Ansuri	CSE	Male	Amaan Ansuri
24	bishal.202004119@tulas.edu.in	Bishal Kumar Yadav	CSE	Male	Bishal
25	ankit.202004090@tulas.edu.in	Ankit Rawat	CSE	Male	Ankit
26	anushkaraj.202004104@tulas.edu.in	Anushka Raj Kashyap	CSE	Female	Anushka Raj Kashyap
27	arpit.202004071@tulas.edu.in	Arpit Kumar	CSE	Male	Arpit
28	ankit.202004122@tulas.edu.in	Ankit Kumar	CSE	Male	Ankit Kumar
29	harshit.202004068@tulas.edu.in	Harshit Kumar	CSE	Male	Harshit Kumar
30	shivani.202004021@tulas.edu.in	Shivani kumari	CSE	Female	Shivani
31	chhaya.201904035@tulas.edu.in	Chhaya Bharti	CSE	Female	
32	ranjeet.202004040@tulas.edu.in	Ranjeet Sah Telee	CSE	Male	
33	avinash.202004043@tulas.edu.in	Avinash jha	CSE	Male	Avinash
34	harsh.202004074@tulas.edu.in	Harsh Upadhyay	CSE	Male	Harsh Upadhyay
35	abhishek.202004041@tulas.edu.in	Abhishek Raj Singh	CSE	Male	Abhishek
36	love.202004028@tulas.edu.in	Love pratap	CSE	Male	Love Pratap
37	bikash.202004116@tulas.edu.in	Bikash kumar	CSE	Male	
38	binod.202004114@tulas.edu.in	Binod Joshi	CSE	Male	


 Director
 Tula's Institute, Dehradun

Registration Details (NIPAM)					
S.NO	Email Address	Name (Mention in certificate)	Faculty/Student	Branch/Department	Gender
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7	monika.belwal@tulas.edu.in	MONIKA BELWAL	Faculty	CSE	Female
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26	manikant.202004045@tulas.edu.in	MANIKANT KUMAR	Student	Cse	Male
27	asifahmed3615@gmail.com	ASIF AHMED	Student	Computer Science Engg	Male
28	maithanianurag56@gmail.com	ANURAG MAITHANI	Student	CSE	Male
29	mansi.202004058@tulas.edu.in	MANSI RAY	Student	BTech CSE	Female
30	anureg.202004120@tulas.edu.in	ANURAG RAJ	Student	B.tech/CSE	Male
31	aditya.202004056@tulas.edu.in	ADITYA CHAUDHARY	Student	Btech/CSE	Male
32	aftafeelam0@gmail.com	AFTAF AALAM	Student	B.tech CSE	Male
33	amaan.202004113@tulas.edu.in	AMAAN ANSARI	Student	Cse / computer science	Male
34	bishal.202004119@tulas.edu.in	BISHAL KUMAR YADAV	Student	CSE	Male
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36	anushkara.202004104@tulas.edu.in	ANUSHKA RAJ KASHYAP	Student	CSE	Female
37	arpit.202004071@tulas.edu.in	ARPIT KUMAR	Student	B Tech/CSE	Male
38	ankit.202004122@tulas.edu.in	ANKIT KUMAR	Student	Cse	Male
39	harshit.202004068@tulas.edu.in	HARSHIT KUMAR	Student	Cse	Male
40	shivani.202004021@tulas.edu.in	SHIVANI KUMARI	Student	Btech/CSE	Female
41	avinash.202004043@tulas.edu.in	AVINASH JHA	Student	B.tech/CSE	Male
42	harsh.202004074@tulas.edu.in	HARSH UPADHYAY	Student	CSE	Male
43	awanish.202004026@tulas.edu.in	AWANISH PRATAP SINGH	Student	CSE	Male
44	abdul.202004134@tulas.edu.in	ABDUL NAIF KHAN	Student	Cse	Male
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58	abhishek.202004063@tulas.edu.in	ABHISHEK PAL	Student	Cse	Male
59	awadesh.202004081@tulas.edu.in	AWADESH	Student	CSE	Male
60	ehtesham.201909011@tulas.edu.in	EHTESHAM KHAN	Student	CSE	Male
61	nikhil.201904064@tulas.edu.in	NIKHIL MATHUR	Student	CSE	Male
62	abhishek.202004041@tulas.edu.in	ABHISHEK SINGH	Student	CSE	Male
63	ujjwal.202004065@tulas.edu.in	UJJWAL SINGH	Student	CSE	Male
64	himanshu.202004037@tulas.edu.in	HIMANSHU RANJAN	Student	CSE	Male



Director
Tula's Institute, Dehradun



NOTICE

Ref : T1/CSE/2020-21/004

Date : 16.03.2022

It is to inform you all students and faculty member that, On the occasion of World Forest Day Tula's Society Computer Science and Engineering is going to organize a Guest lecture on, " History of Indian Forestry and Importance of Forests for Sustainable Future " for B. Tech, BCA, MCA students on 21 March. 2022 from 11:00 AM - 01:00PM.

Event Coordinator: Mr. Sanjay Tyagi
Designation : Assistant Professor
Contact Number : 6395809049

Regards

Mr. Lokesh Kumar

HOD, CSE
Tula's Institute

Director
Tula's Institute, Dehradun

Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.
- Establish as technology driven teaching learning institution.
- Provide world class platform for research and innovation.
- Inculcate social, environmental, heritage values.

Tulas Institute

Department of Computer Science and Engineering

Event: Guest lecture on, " History of Indian Forestry and Importance of Forests for Sustainable Future by Dr. Nilesh Yadav"

Date: 21st March 2022

Organized By: Society of Computer Science and Engineering

Venue: Auditorium Hall

Objective: The main purpose of Guest Lecture on "History of Indian Forestry and Importance of Forests" for Sustainable Future was to educate students about the field of forestry, its importance, impact of IT in forestry and emerging career opportunities in respect of students undergoing computer education.

Summary: The UN General Assembly proclaimed March 21st as the 'International Day of Forests' in 2012 to commemorate and raise awareness of the significance of all types of forests to the people. On this occasion a guest lecture was organized by the Society of Computer Science and Engineering, Tula's Institute. The session was started by facilitation of the speaker by the Director of the Institute in the presence of Dean Academics, Director IQAC, Registrar and HoD (CSE) as well as other faculty member of the Institute.

The Speaker Dr. Nilesh Yadav started his session with a brief introduction about his career path and accomplishments. He gave an overview of forestry, its history and its importance along with very interesting self explanatory examples. The fact of a CSE engineer working and attaining research benchmarks in a well-known forestry institute (FRI, Dehradun) fascinated and inspired the students. He also educated students about the different career opportunities in the field of forestry for the students of different streams especially the computer graduates .He gave various examples of how the key concepts of IT can be merged with that of forestry to enrich this field. The lecture continued for more than two hours and was concluded with questionnaire session in which students and faculty members get their queries solved by the expert .His lecture was so interesting and fruitful for all present there. That can be judged by pin drop silence and keen interest by all .The guest lecture was attended by the students of B.Tech. CSE, MCA, BCA and B.Sc. Forestry.

Outcome:

- Students learned the concept of forestry and its importance.
- Students got educated about the different career opportunities in the field of Forestry.



Dr. Nilesh Yadav
Director
Tula's Institute, Dehradun

Department of Computer Science
and Engineering is organizing



Tula's
Institute DEHRADUN

Guest Lecture on **"History of Indian Forestry and Importance** **of Forests for Sustainable Future"**

SPEAKER

**MR. NEELESH
YADAV**

Scientist, IT & GIS Discipline
Forest Research Institute,
Dehradun



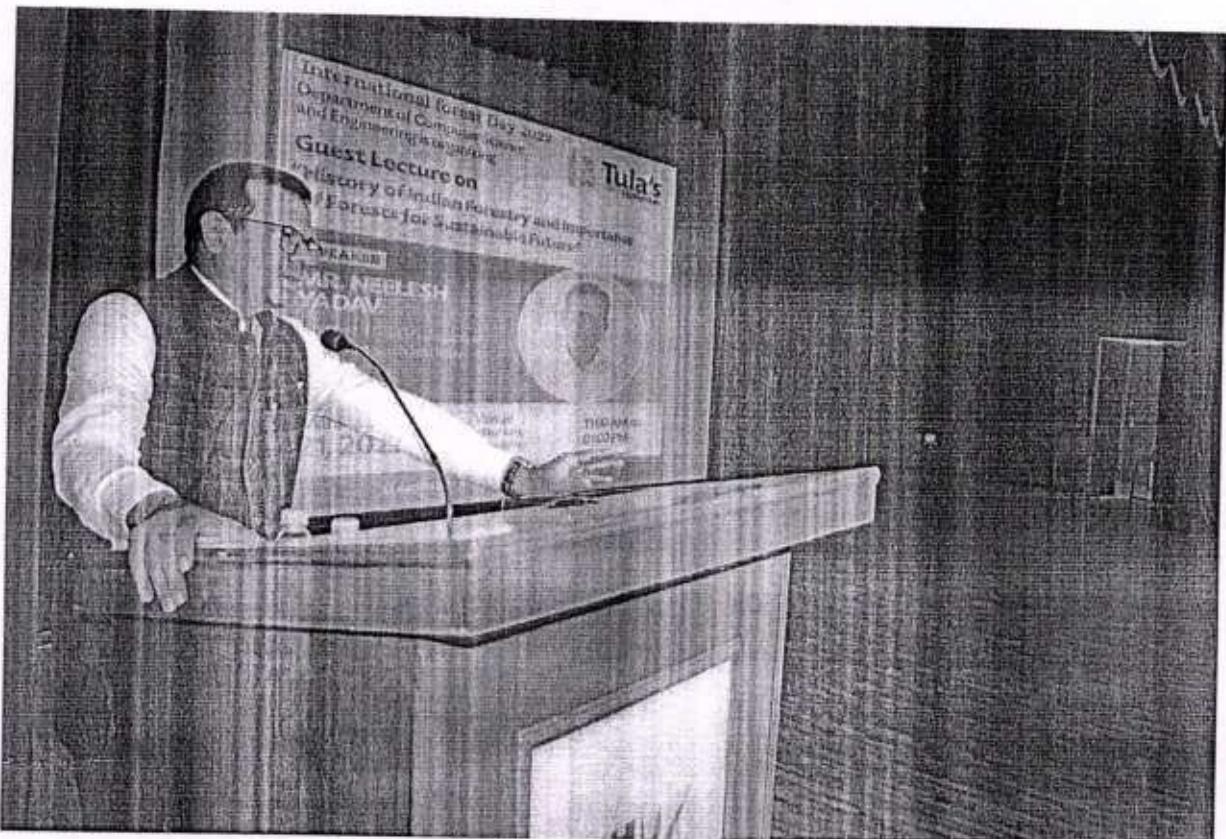
**March
21, 2022**

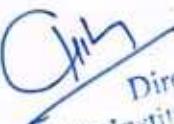
Venue
Auditorium,
Tula's Institute

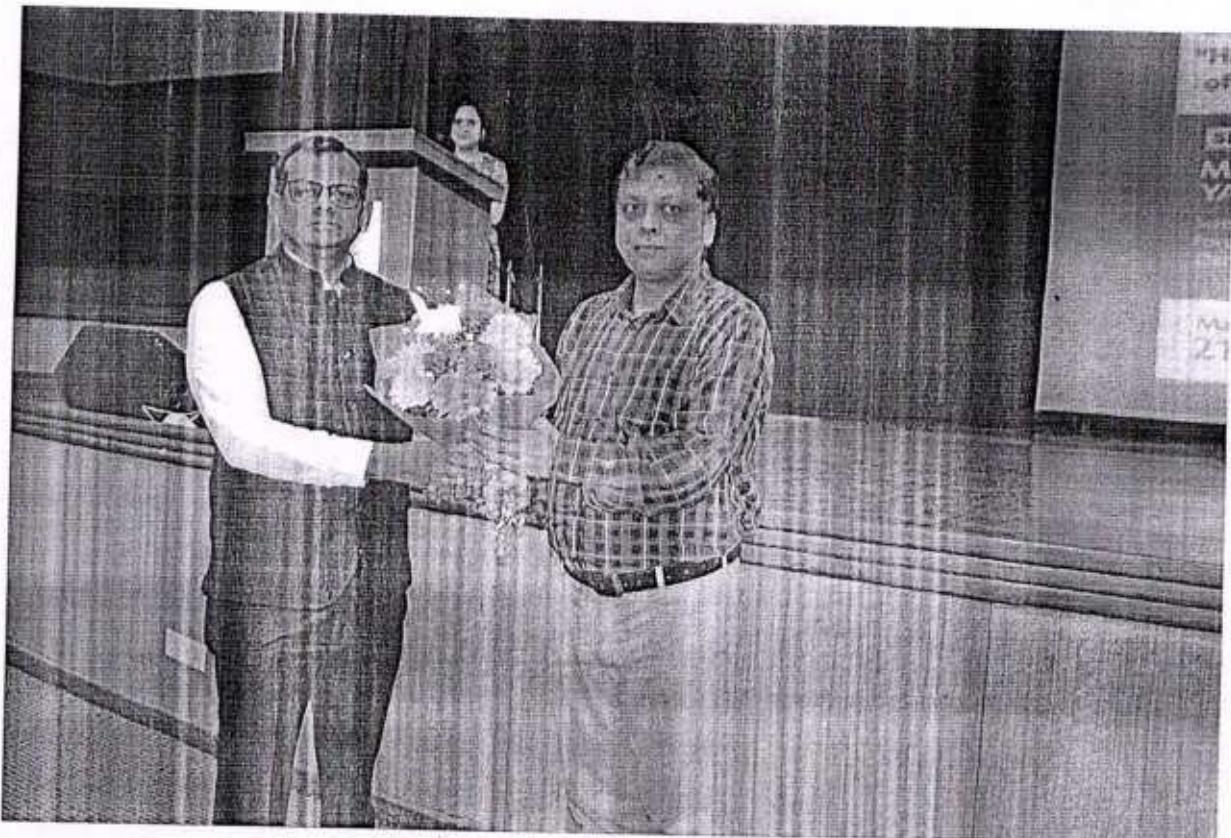
**11:00 AM to
01:00 PM**


Director
Tula's Institute, Dehradun

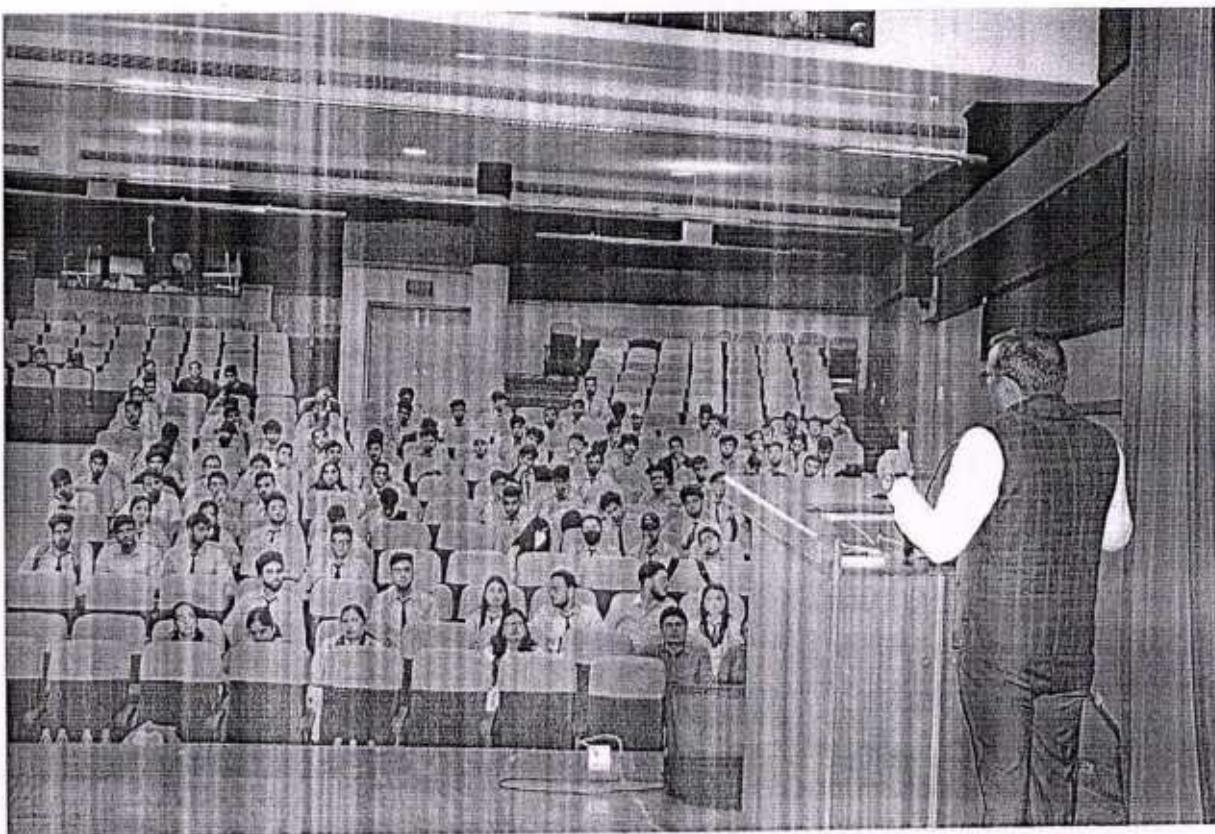
Event Photographs



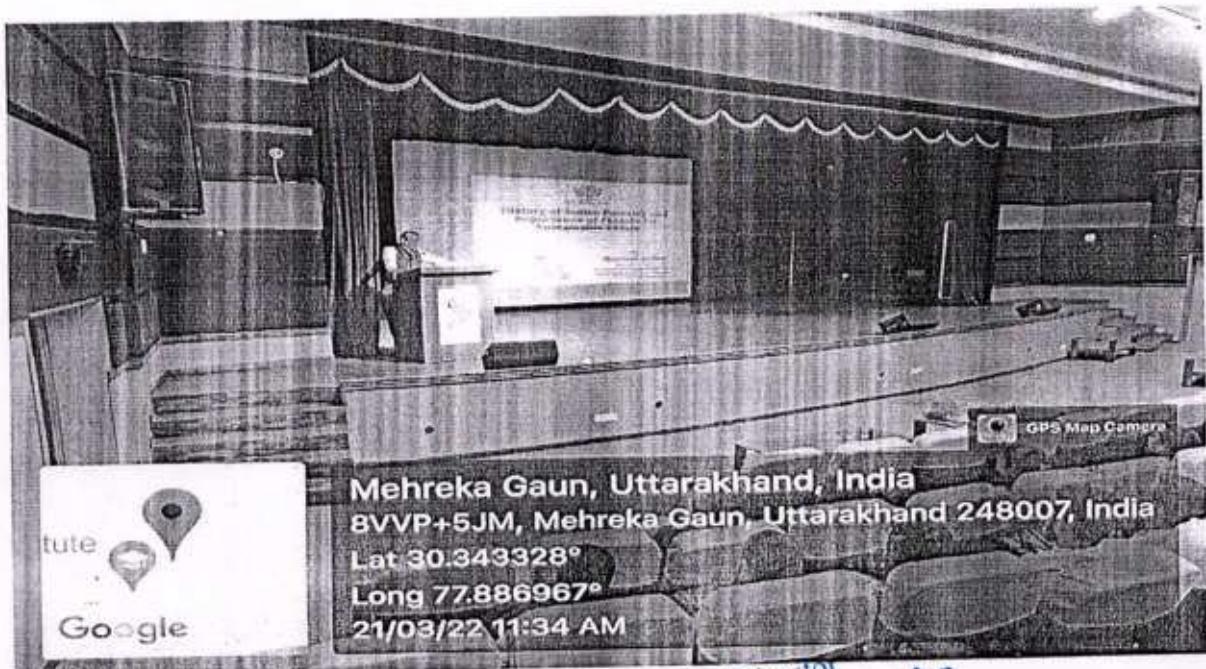

Director
Tula's Institute, Dehradun



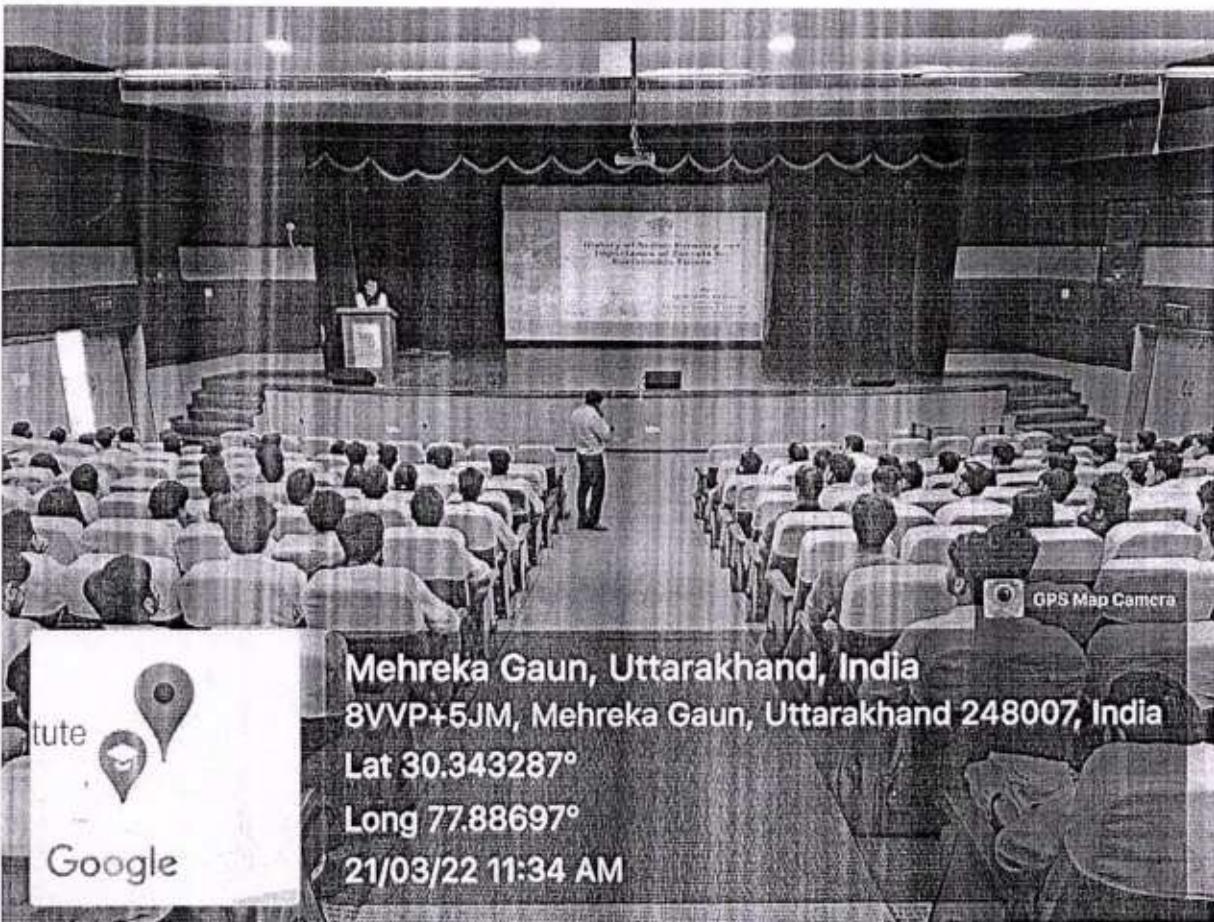
GL Director
Tala's Institute, Dehradun



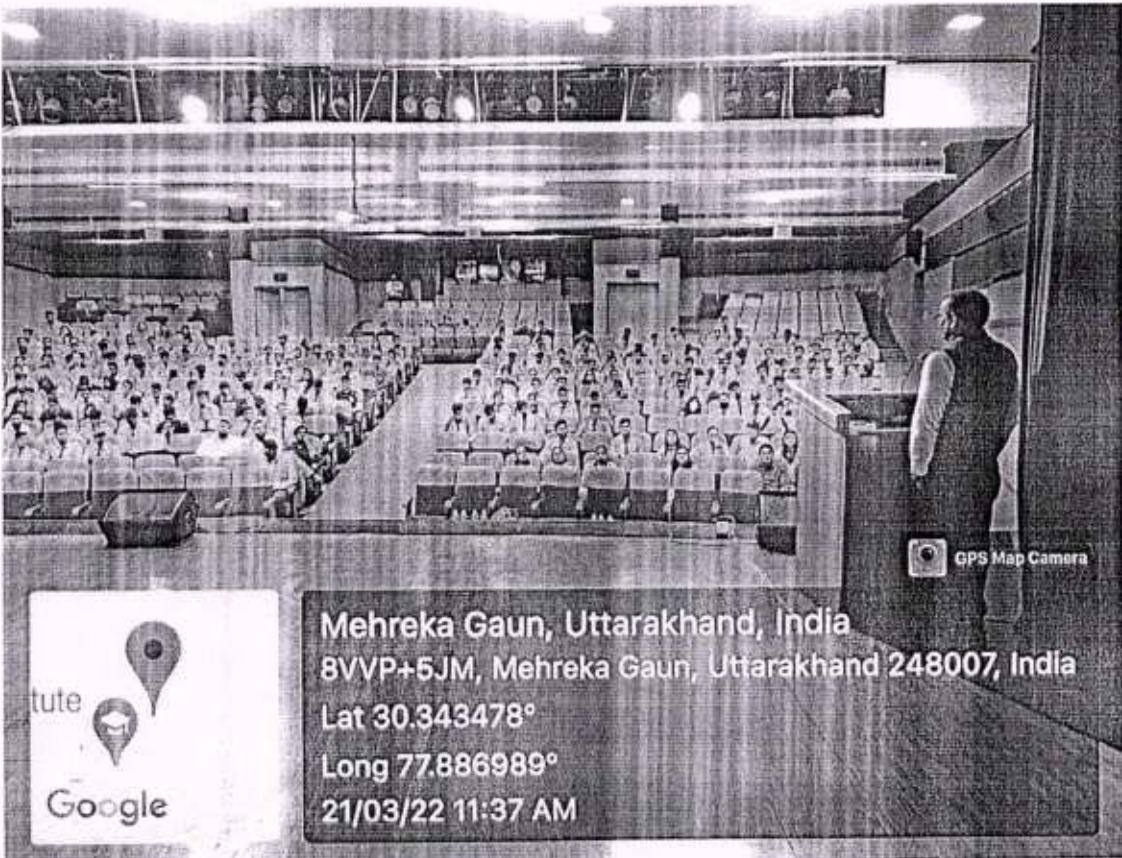
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[Signature] Director
[Signature] Graduate, Dehradun



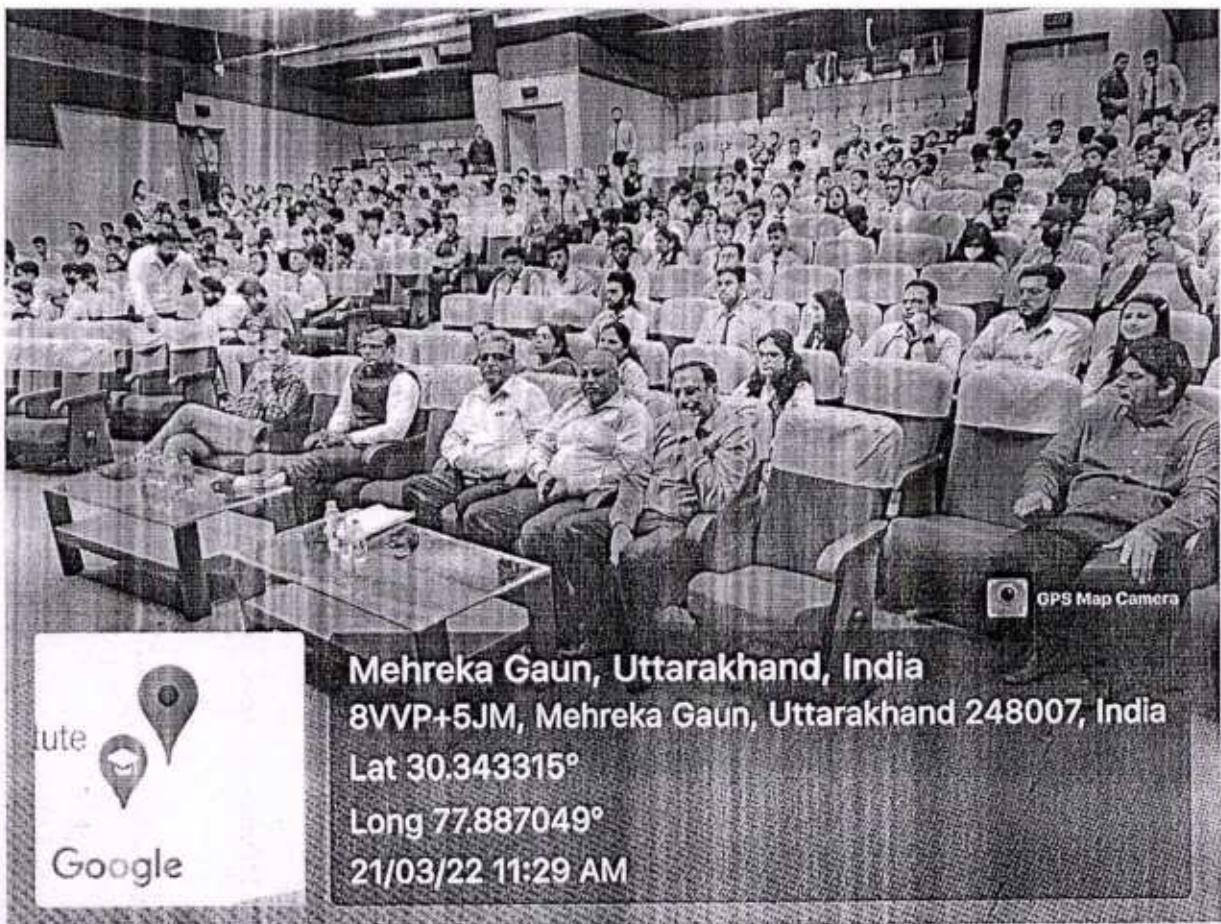
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21/03/22 11:34 AM



Mehreka Gaun, Uttarakhand, India
8VVP+5JM, Mehreka Gaun, Uttarakhand 248007, India
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21/03/22 11:37 AM

Event Photographs

 Director
Tula's Institute, Dehradun



Mehreka Gaun, Uttarakhand, India

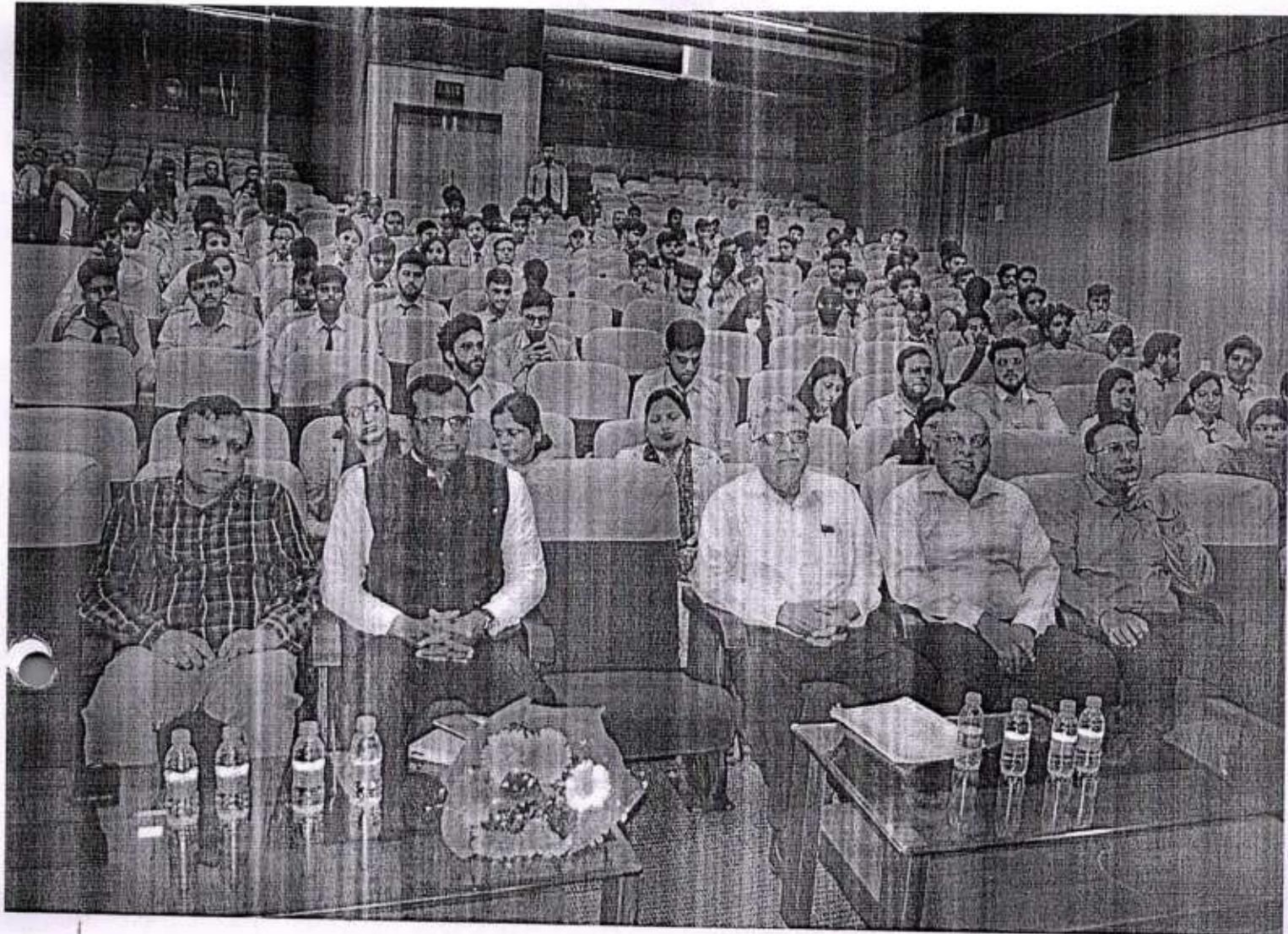
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Long 77.887049°

21/03/22 11:29 AM


Director
Tula's Institute, Dehradun



[Handwritten signature]
Director
Tula's Institute, Dehradun



TULA'S DEHRADUN

INSTITUTE

* Approved by AICTE, Ministry of HRD, Govt. of India * ISO 9001:2015
Affiliated: * Uttarakhand Technical University * Sri Dev Suman Uttarakhand University * Uttarakhand Board of Technical Education

NOTICE

Ref : T1/CSE/2020-21/003

Date : 12.03.2022

It is to inform you all students and faculty member that, Tula's Society Computer Science and Engineering is going to organize a "Hands-on Workshop on Machine Learning" for B. Tech, BCA, MCA students on 15-16 March. 2022 from 10:00 AM - 04:00PM.

Event Coordinator: Mr. Sanjay Tyagi
Designation : Assistant Professor
Contact Number : 6395809049

Regards

Mr. Lokesh Kumar
HOD, CSE
Tula's Institute

Director
Tula's Institute, Dehradun

Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

Dhoolkot, P.O. Selaqui, Chakrata Road
Dehradun - 248011 (U.K. India)

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity
- Establish as technology driven teaching learning institution.
- Provide world class platform for research and innovation.
- Inculcate social, environmental, heritage values.

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0135-2699300
0135-2699309

Tulas Institute

Department of Computer Science and Engineering

Event: Workshop, "Hands-on Workshop on Machine Learning"

Date: 15th to 16th March, 2022

Organized By: CSE

Objective: The main objective of workshop is to gain insight into the latest technology trends and related career opportunities in Machine Learning. Discussion included Basic syntax, functions, list, Market Scenario, The Future of Machine Learning and its Shortcomings. The objective is to familiarize the audience with some basic learning algorithms and techniques and their applications, as well as general questions related to analyzing and handling large data sets with machine learning .Several software libraries and data sets publicly available will be used to illustrate the application of these algorithms.

Summary: The workshop was organized by the Society of Computer Science and Engineering, Tula's Institute. Instructor Mr. Purnendu Prabhat, started his session by giving the outline of his presentation and explaining the basic concepts of Machine Learning in real world scenario. He gave a brief idea about the fundamentals of Machine learning and explained its process and uses in industrial applications to the participants. He explained that Machine learning is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome.

On the 1st day of workshop total 75 students of B.Tech (CSE) participated and learned the machine leaning concepts. The 2nd day of workshop was for BCA, MCA and B. Tech. CSE 3rd year,EEE students in which total 65 students participated. The two-day workshop concluded by the instructor by conducting a questionnaire session.

Outcome:

- To have an exposure of Machine Learning field to students and to get knowledge about various recent practices that should be performed for better understanding of machine learning using python .
- Student learns about the various learning approaches, and to interpret the concepts of supervised learning.
- To learn about the extension and working principle of different types of tools and technique.



Director
Tula's Institute, Dehradun

Tula's Institute Dehradun

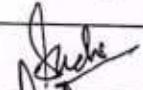
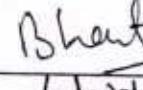
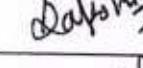
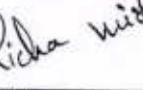
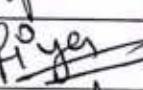
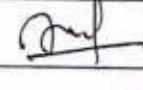
Department of computer Science & Engineering

Department of CSE Organizing Hans on Workshop on Machine Learning from 15 to 16 march 2022.

Speaker Name: Mr. Purnendu Prabhat

Venue: Lab-5

Duty Chart & Schedule of Workshop:

Date	Time	Session	Class	Faculty Duty	Sign
15- March Day 1	10:00 A.M. - 1:10 P.M.	Session 1	CSE 2 nd Year	Mrs. Suchi Johari	
	2:00 P.M. - 4:30 P.M.			Mr. Sandeep Sharma	
	Session 2	CSE 2 nd Year	Mrs. Ritu Pal		
			Dr. Bharti Kalra		
16- March Day 2	10:00 A.M. - 1:10 P.M.	Session 1	CSE 3 rd ,BCA & MCA	Ms. Sakshi Koli	
	2:00 P.M. - 4:30 P.M.			MS. Richa Mishra	
	Session 2	CSE 3 rd ,BCA & MCA	Mrs. Rashmi Mishra		
			Ms. Riya Kukreti		
			Dr. Ajeet Kumar		

Lokesh
14/03/2022
HOD Signature


Director
Tula's Institute, Dehradun

HANDS ON
WORKSHOP ON

MACHINE LEARNING

WITH

**MR. PURNENDU
PRABHAT**

**ASSISTANT PROFESSOR
TULA'S INSTITUTE,
DEHRADUN**



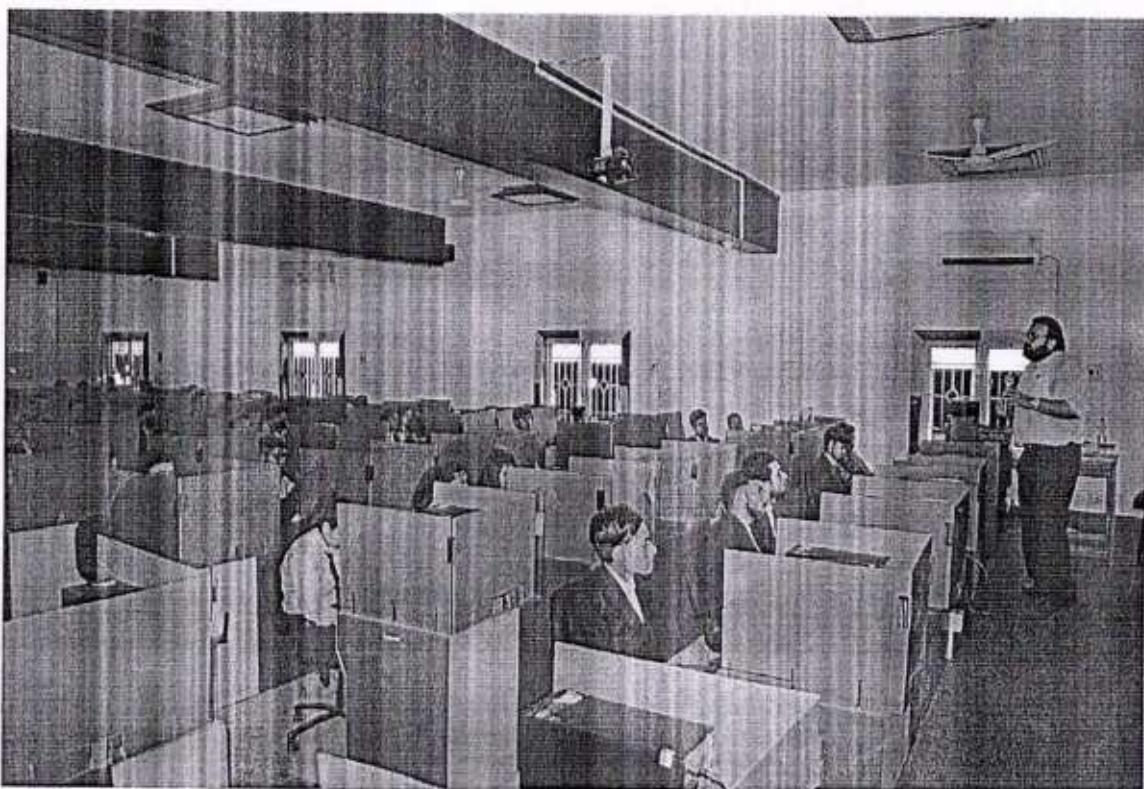
**15TH-16TH MARCH, 2022
10:00 AM-4:00 PM**

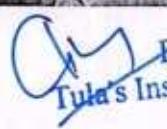
COORDINATOR: MD SANJAY THAKUR

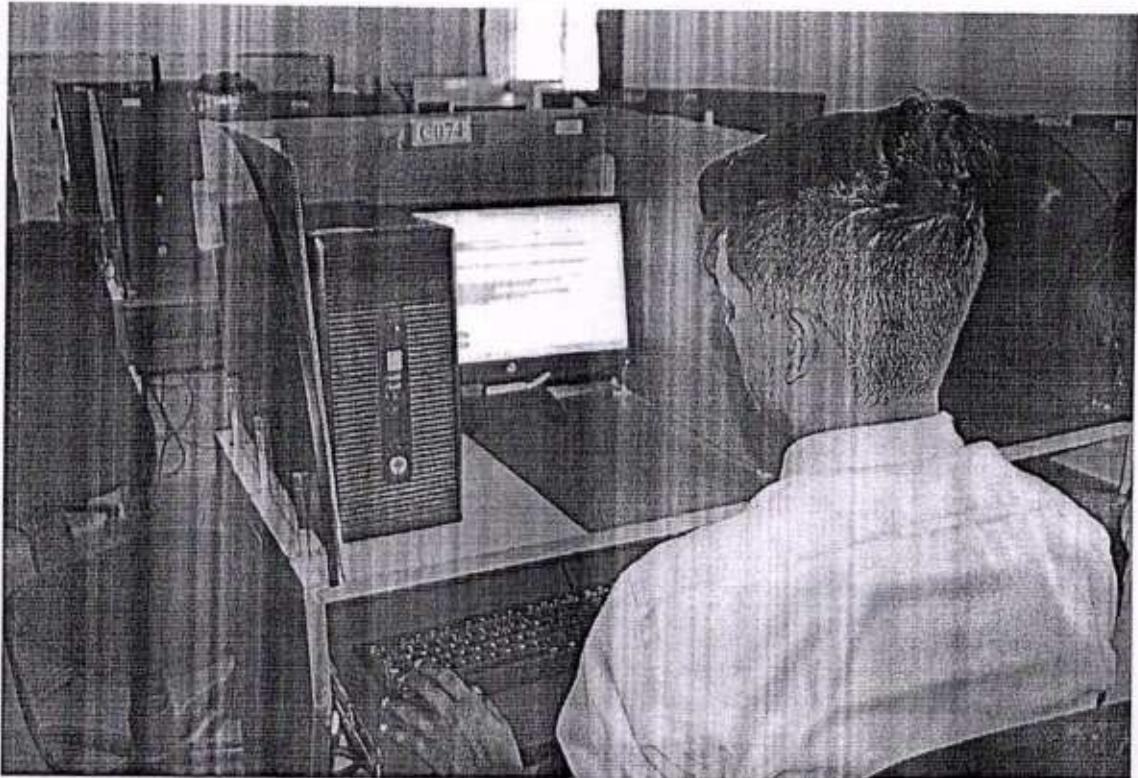



Director
Tula's Institute, Dehradun

Event Photographs



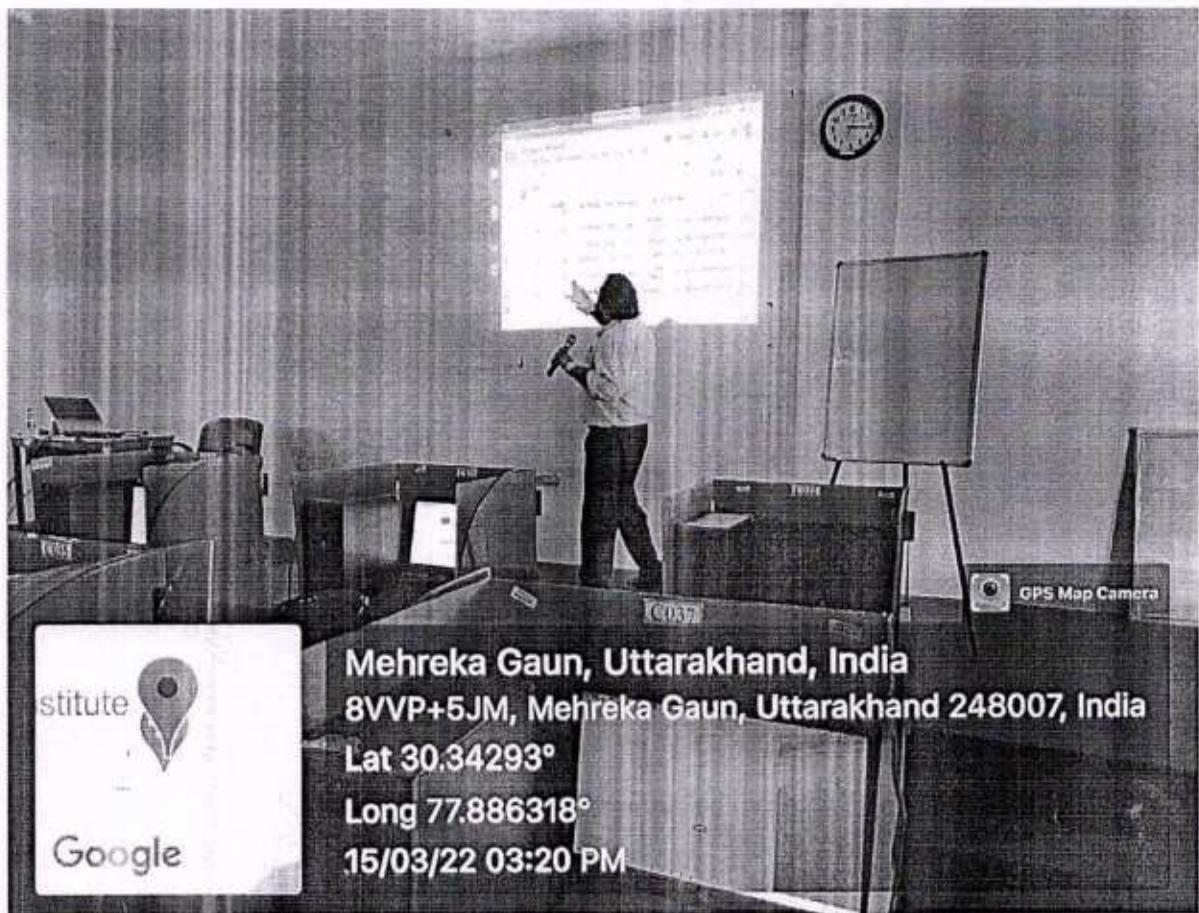
 Director
Tula's Institute, Dehradun



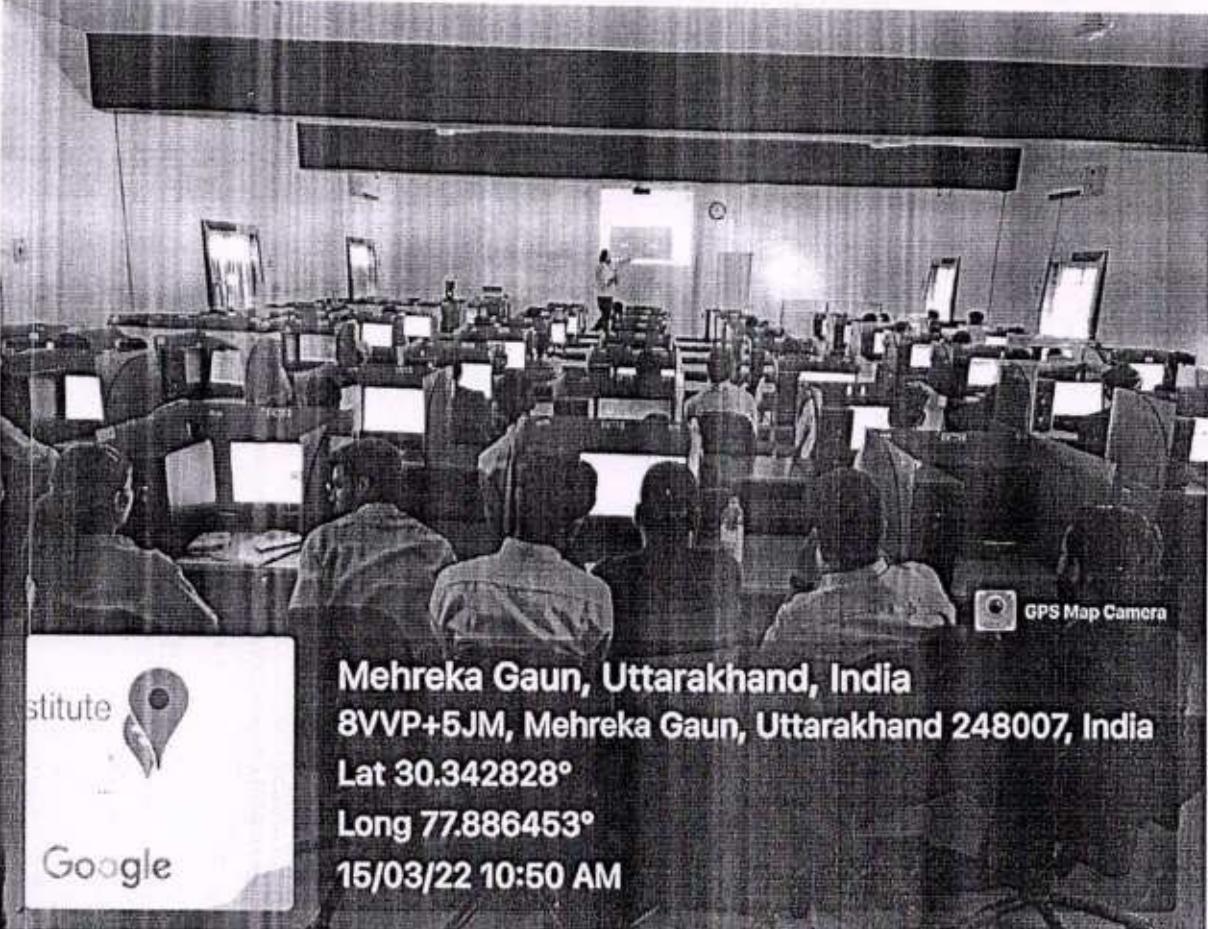
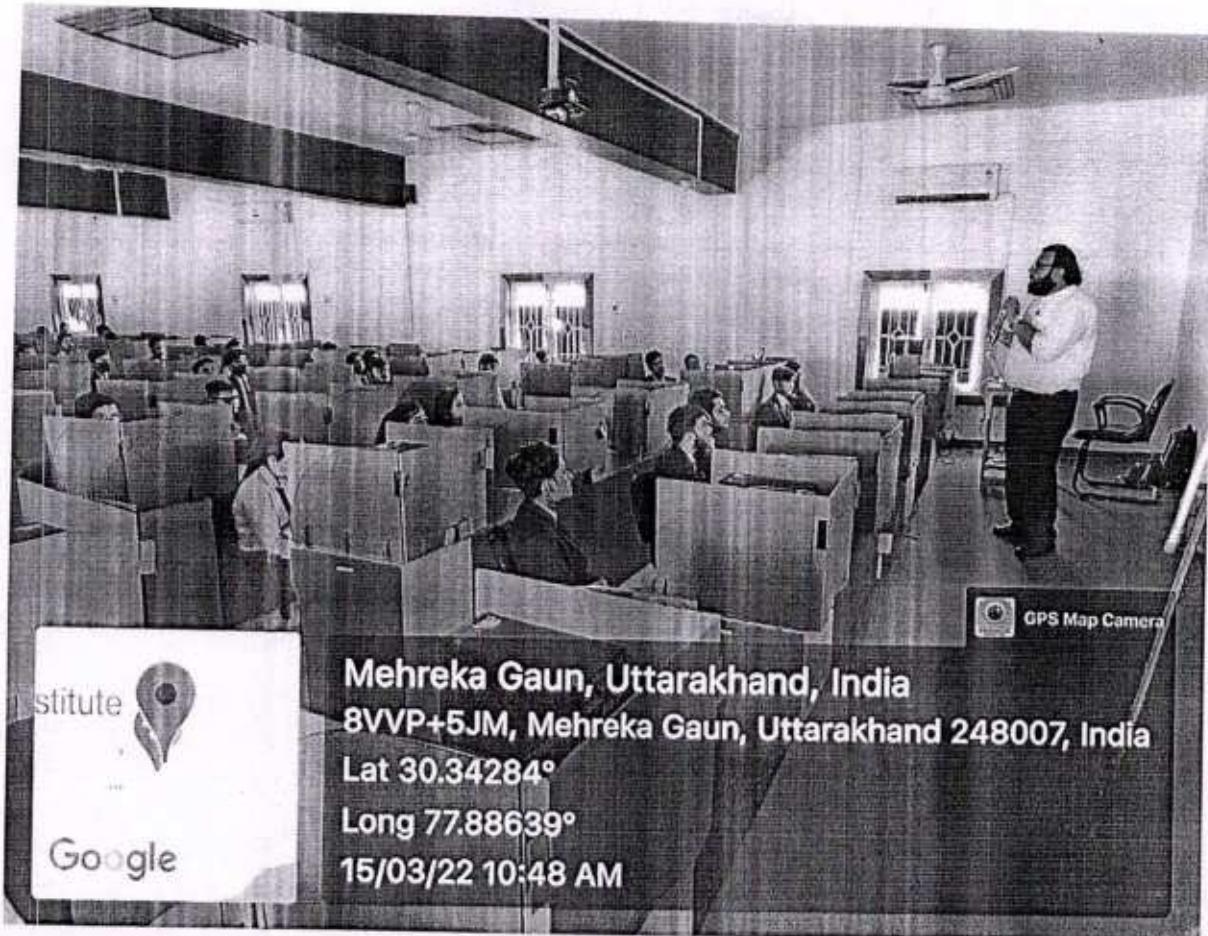
 Director
Tula's Institute, Dehradun

Event Photographs

(Geotag photos)




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Tula's Institute, Dehradun



 Director
Tula's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name : Hand-on workshop Machine learning Date : 15/03/22

S.No	College ID	Name	Branch & Year	Signature
1.	202004022	Abhishek Rawat	B.Tech 2nd	Arand
2.	202004113	Amaan Ansari	B.Tech 2nd	Amaan Ansari
3.	202004007	Abhay Sahu	B.Tech 2nd	Abhay Sahu
4.	202004032	Smit Rana	B.Tech 2nd	Smit Rana
5.	202004108	Aman kr Malviya	B.Tech 2nd	Aman kr Malviya
6.	202004061	Virat kr Singh	B.Tech 2nd	Virat kr Singh
7.	202004050	Aditya choldhary	B.Tech 2nd	Aditya choldhary
8.	202004134	Abdul Naif Khan	B.Tech 2nd	Abdul Naif Khan
9.	202004012	Yash Pathak	B.Tech 2nd	Yash Pathak
10.	202004091	Abhishek Ray Singh	B.Tech 2nd yr	Abhishek Ray Singh
11.	202004046	Hanikant kr	B.Tech 2nd yr	Hanikant kr
12.	202004016	Saurabh yadav	B.Tech 2nd yr	Saurabh yadav
13.	202004022	Pawan Kumar	B.Tech 2nd year	Pawan Kumar
14.	202004112	Ankit Kumar	B.Tech 2nd year	Ankit Kumar
15.	202004727	Bikash Sah	B.Tech 2nd year	Bikash Sah
16.	202004116	Bikash Kumar	B.Tech 2nd year	Bikash Kumar
17.	202004111	Binit kr karn	B.Tech 2nd year	Binit kr karn
18.	202004059	Rohit Bisht	B.Tech 2nd year	Rohit Bisht
19.	202004097	Kriyanshu Deep	B.Tech 2nd year	Kriyanshu Deep

Signature of Head... Lopam


 Director
 Tula's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name : Hand-on Workshop Machine Learning

Date : 15/03/2022

S.No	College ID	Name	Branch & Year	Signature
1.	202004132	Ritesh Pandit	2nd year (CSF)	Ritesh
2.	202004031	Sarthak Rana	2nd yr (CSE)	SR
3.	202004040	Ranjeet Singh	2nd yr (CSE)	Ranjeet
4.	202004089	Rajat Singh Rawat	2nd yr (CSE)	Rajat
5.	202004025	Shivam Singh	2nd yr (CSE)	Shivam
6.	202004078	Prabhat	2nd yr (SE)	Prabhat
7.	202004033	Dhirendra Singh	2nd Yr CSE	Dhirendra
8.	202004081	Aman Singh	2nd Yr CSF	Aman
9.	202004077	Rounak Kumar	2nd yr CSF	Rounak
10.	202004026	Anamish Pratap	2nd yr CSC	Anamish
11.	202004113	Amaan Ansari	2nd yr CSC	Amaan
12.	202004022	Abishak Rawat	2nd yr CSE	Abishak
13.	202004032	Sumit Rana	2nd yr CSF	Sumit
14.	202004100	Khurram Ilyas	2nd yr CSE	Khurram
15.	202004090	Aukit Rawat	2nd yr. CSE	Aukit
16.	202004114	Bijay Joshi	" "	Bijay
17.	202004029	Akash Pathak	2nd yr CSF	Akash

Signature of Head..... Lofus

 Director
Tulâ's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Attendance
Event Name : Hand.on. Maching learning

Date : 15/03/2022

Signature of Head.....*Leckie*.....

 Director
Tula's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Attendance Sheet
Event Name : Hands On Machine learning

S.No	College ID
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Date : 15 / March / 2022

Signature of Head..... Lopew.....

 Director
Tula's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name : Hands On Machine Learning

Date : 16/03/22.....

S.No	College ID	Name	Branch & Year	Signature
1	201904059	Achyut shah	CSE 3 rd	
2	201904019	Abhishek Gupta	CSE 3 rd	Abhishek
3	201904067	Asif	CSF 3 rd	Asif
4	201904033	Abhay	CSF 3 rd	Abhay
5	201904134	Bhawani	CSE 3 rd	Bhawani
6	201904066	Azaq Ahmed	CSE 3 rd	Azaq
7	201904101	Jay Sharma	CSE 2 nd	Jay Sharma
8	201904048	Anuj kr. Jain	CSE 3 rd	Anuj kr. Jain
9	201904023	Akshay Arya	CSE 3 rd	Akshay Arya
10	201904031	Jayant Rayan	CSE 3 rd	Jayant Rayan
11	201904114	Deepak Sharma	CSF 3 rd	Deepak Sharma
12	201904049	Kalash Kumar	CSE 3 rd	Kalash Kumar
13	201904010	Ankit Singh	CSE 3 rd	Ankit Singh
14	201904017	Himanshu kumar	CSE 3 rd	Himanshu kumar
15	201904013	Ankit Singhania	CSE 3 rd	Ankit Singhania
16	201904087	Deepanshu kothiyani	CSE 3 rd	Deepanshu kothiyani
17	201904127	Abhishek	CSE 3 rd	Abhishek
18	201904011	Prashant Kumar	CSF 3 rd	Prashant Kumar
19	201904043	Ananya Mishra	CSF 3 rd	Ananya Mishra
20	201904083	Kumari Shreya	CSF 3 rd	Kumari Shreya
21	201904082	Ayush Taisawar	CSE 3 rd	Ayush Taisawar
22	201904069	Fahad Shek	CSE 3 rd	Fahad Shek
23	201904138	Affaf Alyam	"	Affaf Alyam
24	201904095	Akash Royal	"	Akash Royal
25	201904093	Areeb Omar	"	Areeb Omar

Signature of Head.....


Director
Tula's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name : Machine Learning Workshop

Date : 16-03-22

Date : 16-03-22

S.No	College ID	Name	Branch & Year	Signature
1	201904091	Parth Patelani	CSE 3rd year	
2	201904063	Priya Singh	CSE 3rd year	Priya
3.	2019041018	Ranuks	CSE 3rd year	Ranuks
4	201904024	Raman	CSE 3rd yr	Raman
5	201904130	Mitali	CSE 11	Mitali
6	201904113	Pearthana Singh	CSE 3rd Year	Pearthana
7	201904002	Pranav Rao	CSE 3rd yr	Pranav
8	201904001	Manish Rao	CSE 3rd	Manish
9.	201904002	Niyati Bhatia	CSE 3rd	Niyati
10.	201904444	Khushali Shahi	C.S. 1.3rd	Khushali
11.	201904012	Amit Singh	CSE 1.3rd	Amit
12.	201904132	Tania Chahal	CSE 3rd	Tania
13.	201941121	Talishahbi	CSE 3rd	Talishahbi
14.	2019020142	Sarwan	CSE 3rd	Sarwan
15.	201920043	Sandeep	CSE 3rd	Sandeep
16.	201920042	Rajveer	CSE 3rd	Rajveer
17	2019040141	Nishin	CSE 3rd	Nishin
18	2019041756	Narmi	C.S.C 3rd	Narmi

Signature of Head..... Lokur

 Director
Tula's Institute, Dehradun

EEE - 3rd

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name : Hand on workshop Machine learning

Date : 16/03/22

Signature of Head..... John

 Director
Tula's Institute, Dehradun

Tulas Institute

Department of Computer Science and Engineering

Event: "A quiz competition and an introductory session on Machine learning"

Date: 24th Dec. 2021

Organized By: CSE

Objective:

1. The Objective behind to organize Quiz competition is to evaluate the knowledge of the participants within academics as well as beyond academics and to make them familiar with the prospects of quizzes and the objectivity of the questions.
2. To encourage the students to gain general knowledge related to machine learning and generate effective learning.

Summary: Society of Computer science and engineering, organized a Quiz competition and an Introductory session on machine learning for the students of B. Tech (CSE), BCA and MCA on 24 December 2021 between 2:30 to 4:30. The Theme of Quiz completion was C programming Language. Event started with quiz Completion. Students participated with great enthusiasm in quiz completion. A total of 52 students participated in the Quiz completion. Each candidate had given to 30 minutes duration to solve the quiz.

The second session started at 3:30. It lasted for 1 hour. The second session on machine learning was delivered by Mr. Nitin Pasi. Nikhil Mathur (CSE 3rd Year) Convener Society of Computer science and engineering formally introduced the speaker Mr. Nitin Pasi ,faculty of computer science and engineering to the participates.

Mr. Pasi started his session on Machine learning by giving the outline of his presentation and explaining the basic concepts of Machine Learning. He gave a brief idea about the fundamentals of Machine Learning and explained its process and uses in industrial applications to our participants. He also explained how machine learning could be considered as a branch of artificial intelligence that allows computer system to learn directly from examples, data and experience. Through enabling computers to perform specific tasks intelligently, machine learning systems can carry out complex processes by learning from data, rather than following pre-programmed rules. Winners of quiz competition will be awarded with certificate of excellence on 29 Dec 2021.

The event concluded with the certificate of excellence distribution among the participants on 29 Dec 2021.

Rohit Malangi from CSE 3rd Year secured the first position, Snehshish Tiwari from CSE 2nd Year got Second and Suraj Kumar 2nd Year was given the third position.



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Tula's Institute, Dehradun

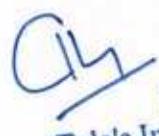
Outcome:

Knowledge Enhancement: Students learn about Basic of Machine Learning and certainly it enhances their domain specific knowledge.

Innovation and Skill Development: An Introductory session on machine learning introduces novel concepts to the students. These novel concepts can be utilized in innovative application by the students.

General Competency: A Quiz Completion enhanced the student knowledge that will help them to observe and analyze the problems with a different perspective. This will improve their competency and employability.

Sustainable Development: The main purpose of the competition to develop interest in subject areas of Programming Language in view of competitive aspects.



Dr. Ashok Kumar Tuli
Director
Tula's Institute, Dehradun



Tula's
Institute DEHRADUN

Tula's Society of Computer Science
and Engineering Organising

"ZEST"

"A Quiz Competition and
Introductory session on Machine learning"



Director
Tula's Institute, Dehradun

Date: 24th December, 2021 | Time: 2:00 pm - 3:30 pm

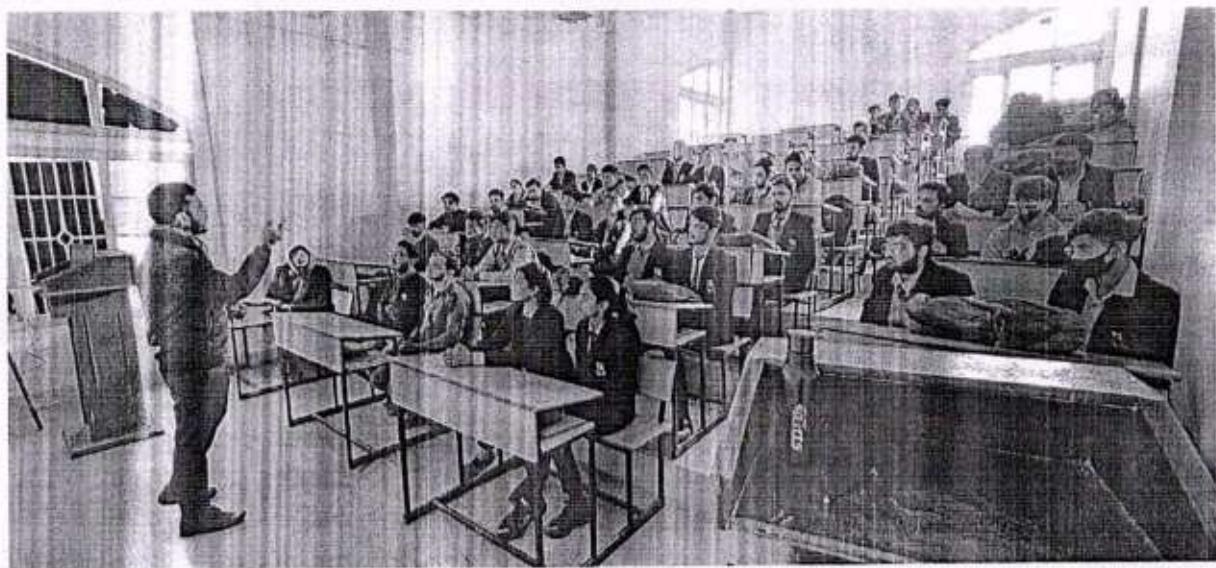
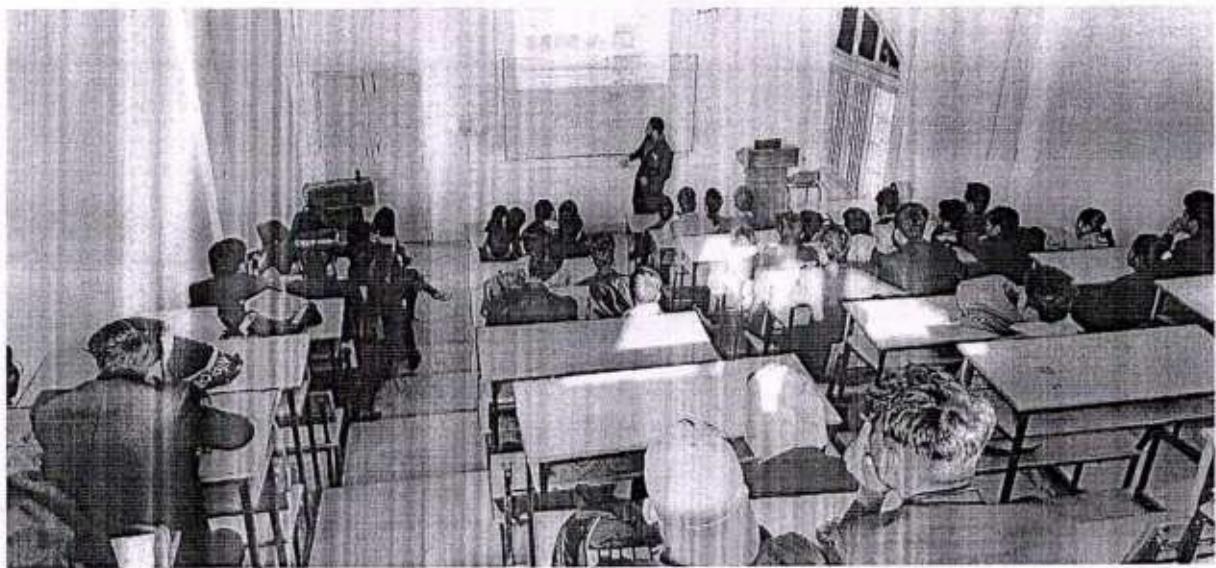
Venue: CSE Department, Tula's Institute

Coordinator Details : Mr. Sanjay Tyagi(6395809049)

Photos :




Director
Tula's Institute, Dehradun

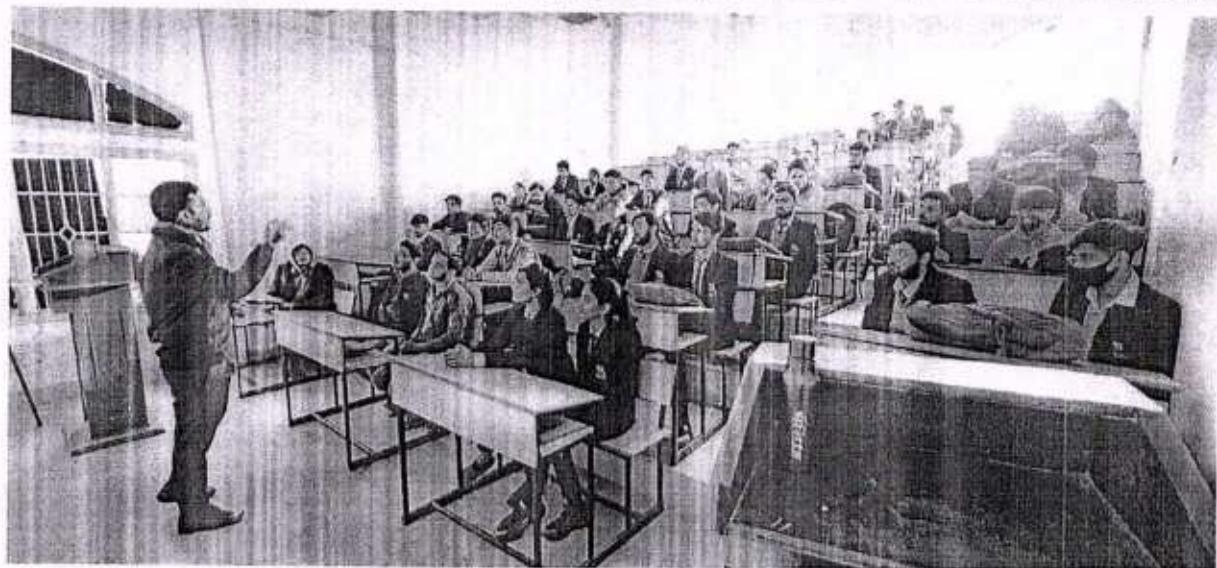
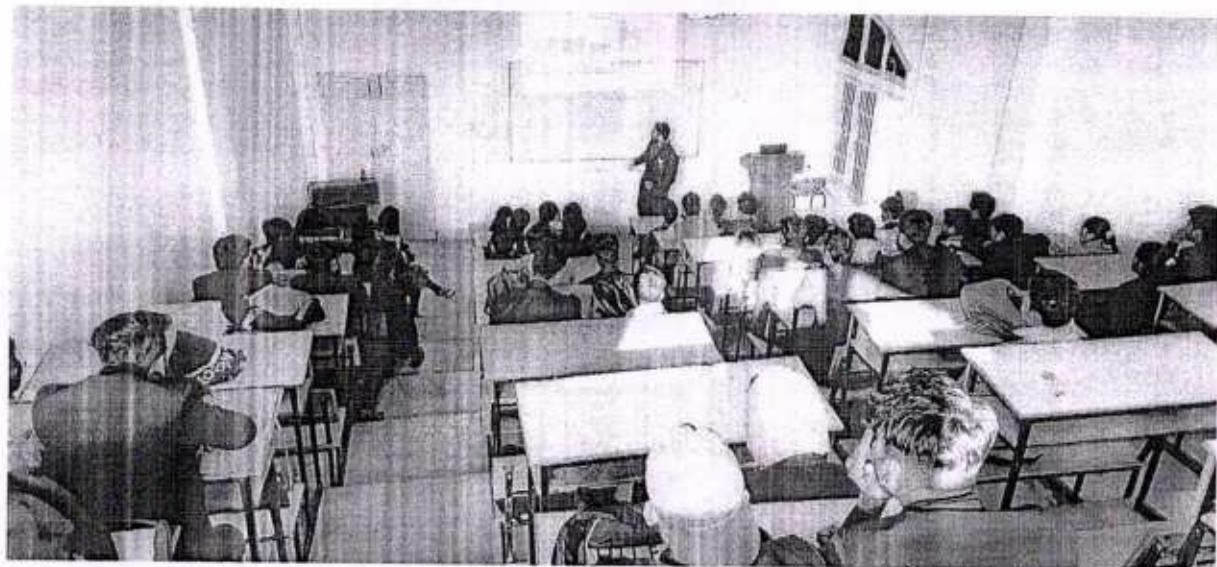


 Director
Tula's Institute, Dehradun

Photos :




Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

"Quiz Completion"

Date :24-12-21

Venue: CSE Department

Course :

Year :

Name:

Roll -Number / ID :

Q.1 If an array be declared with n integers. Then find the address of A[i] using C programming

- a. &A[0]+i
- b. &A[0]+i *size of int
- c. (&A[0]+i) *size of int
- d. None of the above

Q2. All keywords in C are in _____

- a. LowCase letters
- b. UpperCase letters
- c. CamelCase letters
- d. None of the mentioned

Q3. 'C Language' allows a three-way transfer of control with the help of _____.

- a. Unary operator.
- b. Relational operator.
- c. Comparison operator.
- d. Ternary operator

Q4. Find the output

```
Void main()
{
    Static int x = 5;
    X = x+1;
    If(x==0) return;
    Printf("%d",x);
    Main();
}
```

- a.4321
- b.1234
- c. Compile time error
- d. None of these

Q5. C language was invented in which laboratories?


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Q.10 What is the correct value to return to the operating system upon the successful completion of a program?

- A. -1
- B. 1
- C. 0
- D. Programs do not return a value.

Q11. Study the following statement

```
for (i = 3; i < 15; i += 3)
{printf ("%d", i);
 ++i;
}
```

What will be the output?

- a. 3 6 9 12
- b. 3 6 9 12 15
- c. 3 7 11
- d. 3 7 11 15

Q12. How many times will the following loop execute?

```
for(j = 1; j <= 10; j = j-1)
```

- a. Forever
- b. Never
- c. 0
- d. 1

Q13. Among 4 header files, which should be included to use the memory allocation functions like malloc(), calloc(), realloc() and free()?

- A. #include<string.h>
- B. #include<memory.h>
- C. #include<stdlib.h>
- D. Both b and c

Q14. What will be most appropriate output of the following program

```
Void main()
{
Char *p;
Char A[] = "I_am_an_engineer";
p=A;
printf("%u,%u",sizeof(A), sizeof(p));
}
```

- a. 17,17
- b. 18,2
- c. 17,2
- d. 18,18

Q15. What will be the output of the following program

What will be the output of this program?

- a. Wrong statement
- b. It will keep on printing Tula's Institute
- c. It will Print Tula's Institute once
- d. None of the these

Q19. How many times will the following loop execute?
`for(j = 1; j <= 10; j = j-1)`

- e. Forever
- f. Never
- g. 0
- h. 1

Q20. What will be the output of the C program?

```
#include<stdio.h>
int main()
{
    char str[8] = "if block";
    if(str == "if block")
        printf("if block executed");
    else
        printf("else block executed");
    return 0;
}
```

- A. if block executed
- B. else block executed
- C. Compilation Error
- D. None of the above


Director
Tula's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name : Zest

Date :...24-12.....

S.No	College ID	Name	Branch & Year	Signature
1.	202004111	Binit Kr. Karm	CSE 2nd year	<u>Binit Karm</u>
2	202004028	Love Pratap	CSE 2nd year	<u>Love Pratap</u>
3.	202004068	Harsit Kumar	CSE 2nd year	<u>Harsit Kumar</u>
4	202004122	Ankit Kumar	CSE 2nd year	<u>Ankit Kumar</u>
5	202004096	Kavithkey Singh	CSE 2nd year	<u>Kavithkey</u>
6	202004022	Abhishek Rawat	CSE 2nd year	<u>Abhishek</u>
7	202004007	Abhay Sahu	CSE 2nd year	<u>Abhay Sahu</u>
8	202004014	Akash Giri	CSE 2nd year	<u>Akash Giri</u>
9	202004030	Anjali Prasad	CSE 2nd year	<u>Anjali Prasad</u>
10	202004085	Mandeep Negi	CSE 2nd year	<u>Mandeep Negi</u>
11	202004108	Aman Kir. Malavia	CSE 2nd year	<u>Aman Kir. Malavia</u>
12	202004090	Anvit Rawat	CSE 2nd year	<u>Anvit Rawat</u>
13	202004104	Anuradha Raj Kothyab	CSE 2nd year	<u>Anuradha Raj Kothyab</u>
14	202004058	Mansi Ray	CSE 2nd year	<u>Mansi Ray</u>
15	202004063	Abhishek Pathak	CSE 2nd year	<u>Abhishek Pathak</u>
16	202004003	Gourav Bohra	CSE 2nd year	<u>Gourav Bohra</u>
17.	202004003	Shitali	C.S.C 2nd year	<u>Shitali</u>
18.	202004005	Sunesh	C.S.C 2nd year	<u>Sunesh</u>
19.	202004007	Sironay	C.S.C 2nd year	<u>Sironay</u>
20.	202004017	Sunita	C.S.C 2nd year	<u>Sunita</u>
21.	20200402048	Mansi	C.S.C 2nd year	<u>Mansi</u>

Signature of Head..... Jafar

~~Director
Tula's Institute, Dehradun~~

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name :...Zest...

Date :..24-12.....

S.No	College ID	Name	Branch & Year	Signature
1.	190120101061	Manish Kumar	CSE / 3rd	Manish
2.	190120101086	Rounak Kumar	"	Rounak
3.	190120101076	PRANAY	"	Pranay
4.	190120101062	Nehruj Raj	"	Nehruj
5.	190120101080	PRIYAM	"	Priyam
6.	190120101064	Meenakshi	"	Meenakshi
7.	190120101065	Raman Kumar	"	Raman
8.	190120101090	Ritu Mehta	"	Ritu
9.	190120101092	Rohit Kumar	"	Rohit
10.	190120101066	Narveet	"	Narveet
11.	" 68	NIKHIL	"	Nikhil
12.	190120101091	Ritu Raj	"	Ritu
13.	190120101071	Nitin	"	Nitin
14.	190120101089	Rishabh	"	Rishabh
15.	190120101067	Nikhil Bhandari	"	Nikhil
16.	" 83	Ragni	"	Ragni
17.	" 80	Mujun	"	Mujun
18.	" 78	Praveen Singh	"	Praveen
19.	" 79	Priya	"	Priya
20.	" 93	Rohit	"	Rohit

Signature of Head... holley

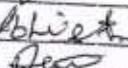
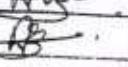
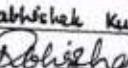
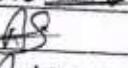
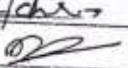
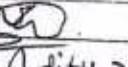
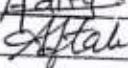
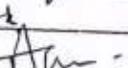
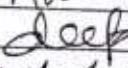
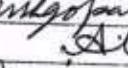
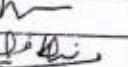
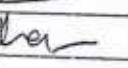
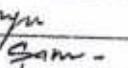
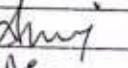
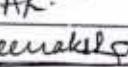
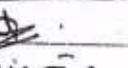
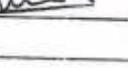

Director
Tula's Institute, Dehradun

Tula's Society of Computer science and engineering

Attendance Sheet

Event Name : Zest

Date : 24-12.....

S.No	College ID	Name	Branch & Year	Signature
1.	201904103	Manish Kumar Mahto	CSE / 3rd	
2.	201904009	Abhishek Parashar	"	
3.	201904105	Abhishek Gupta	"	
4.	201904041	Anjali Kulkarni	"	
5.	201904050	ABHIJEET BHARTI	"	
6.	201904030	abhishek Kumar	"	
7.	201904072	Abhishek Patwardhan	"	
8.	201904136	Abhishek Srivastava	"	
9.	201904120	ACHYUT SHAMI	"	
10.	201904020	Manish Raj	"	
11.	201904137	Nikhil Ray	"	
12.	201904124	Hditya Kumar	"	
13.	201904126	Aftab Alam	"	
14.	201904127	Akshay	"	
15.	201904122	Arvindh	"	
16.	201904142	Deeptika	"	
17.	201904144	Harsopal	"	
18.	201904143	Faisal Ali	"	
19.	201904116	Md. Rehmat Hussain	"	
20.	201904065	Mukul	"	
21.	201904078	Entesham Khan	"	
22.	201904034	Gyanu	"	
23.	201904021	AREEB SAMMI	"	
24.	201904021	Amrit Singh	"	
25.	201904025	Abbar	"	
26.	201904113	meenakshi Gautam	"	
27.	201904020	NAMAN KUMAR	"	
28.	201904006	NAVNEET KUMAR PURI	"	

Signature of Head... L. S. D......


Director
Tula's Institute, Dehradun

TULAS

TULAS'S DEHRADUN

INSTITUTE

• Approved by AICTE, Ministry of HRD, Govt. of India • ISO 9001:2015

Affiliated: • Uttarakhand Technical University • Sri Dev Suman Uttarakhand University • Uttarakhand Board of Technical Education

Date: 03.09.2021

NOTICE

Ref : T1/CSE/2020-21/001

Date :

It is to inform you all students and faculty member that, Tula's Society Computer Science and Engineering is going to organize a webinar on " "Green computing & IOT " for B.Tech students on 09 Dec. 2021 from 10:30 AM - 12:30PM. Webinar will be conducted via Online mode using the Google Meet platform.

Event Coordinator: Mr. Sanjay Tyagi
Designation : Assistant Professor
Contact Number : 6395809049

Regards

Mr. Lokesha Kumar
HOD, CSE

Tula's Institute

Director
Tula's Institute, Dehradun

Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission:

- Promote intellectual and skilled human capital generation employment and entrepreneurship.
- Be educational centre of excellence of multi ethnicity and diversity.
- Establish as technology driven teaching learning institution.
- Provide world class platform for research and innovation.
- Inculcate social, environmental, heritage values.

 Chokkhi, P.O. Selaqui, Chakrata Road
Dehradun - 248011 (U.K India)

 www.tulas.edu.in

 0135-2699300
0135-2699301

Tulas Institute

Department of Computer Science and Engineering

Event: One day's Webinar on "Webinar on "Green computing & IOT "

Date: 09 Dec. 2021

Organized By: CSE

Objective: The main objective of webinar is to gain insight into the latest technology trends and related career opportunities in green computing and IOT. Discussion included Latest Trends of Green Computing & IOT, Market Scenario, The Future of Green Computing & IOT and its drawbacks and Shortcomings.

Summary: The webinar was organized by the Society of Computer Science and Engineering , Tula's Institute . Guest Speaker Prof. Abhay Saxena was formally welcomed by Nikhil Mathur (CSE 3rd Year) Convener, Society of Computer science and engineering.

Event Guest speaker started his speech by giving the outline of his presentation and explaining the basic concepts of Green Computing and IOT. He gave a brief idea about the fundamentals of Green Computing and explained its process and uses in industrial applications to our participants. As Green computing is the environmentally responsible and eco-friendly use of computers and their resources. He Explained how numerous IT vendors are promising to offer to study of designing, engineering, manufacturing, using and disposing of computing devices in a way that reduces their environmental impact and how Green IT practices include the development of environmentally sustainable production practices, energy-efficient computers and improved disposal and recycling procedures.

There was enough for everyone to learn. The complete webinar can be taken as a preparation for the students to broaden their understanding about the green computing and IOT. There was a demonstration of a small project by our speaker regarding IOT, the demonstration was really helpful to lead us to the better understanding of Industry and how in daily life we may use it. Topic discussed during workshop will help student in small and large project in the future.

Apart from this students will gain deep knowledge of different software and different Green Computing platform therefore, there is a good possibility they can utilize the knowledge gained through the webinar and *innovate novel applications*. Moreover, the complete workshop was a good experience for students, thus certainly the experience earned through the webinar will help them in their future. Students took a great interest in Webinar, all of them were attentive during the webinar and interactive as well.

There was a questionnaire section during the Webinar. Students were keen to know about the topics that were discussed. On the whole, the entire session was very interactive and interesting.


Director
Tula's Institute, Dehradun

Outcome:

Knowledge Enhancement: Students learn about new devices and sensors, and certainly it enhances their domain specific knowledge.

Innovation and Skill Development: The webinar introduces novel concepts to the students. These novel concepts can be utilized in innovative application by the students.

General Competency: The webinar enhanced the student knowledge that will help them to observe and analyze the problems with a different perspective. This will improve their competency and employability.

Sustainable Development: Our speaker introduced and also motivated students towards the sustainable development how we may grow in terms of smart city as well as preserve our environment.



Director
Tula's Institute, Dehradun

Webinar on "GREEN COMPUTING & IOT"

SPEAKER

PROF. ABHAY SAXENA

Dean (School of Technology,
Management & Communication)
Dev Sanskriti Vishwavidyalaya,
Haridwar, Uttarakhand, India



9th December, 2021
10:30 am - 12:30 pm

LIVE ON

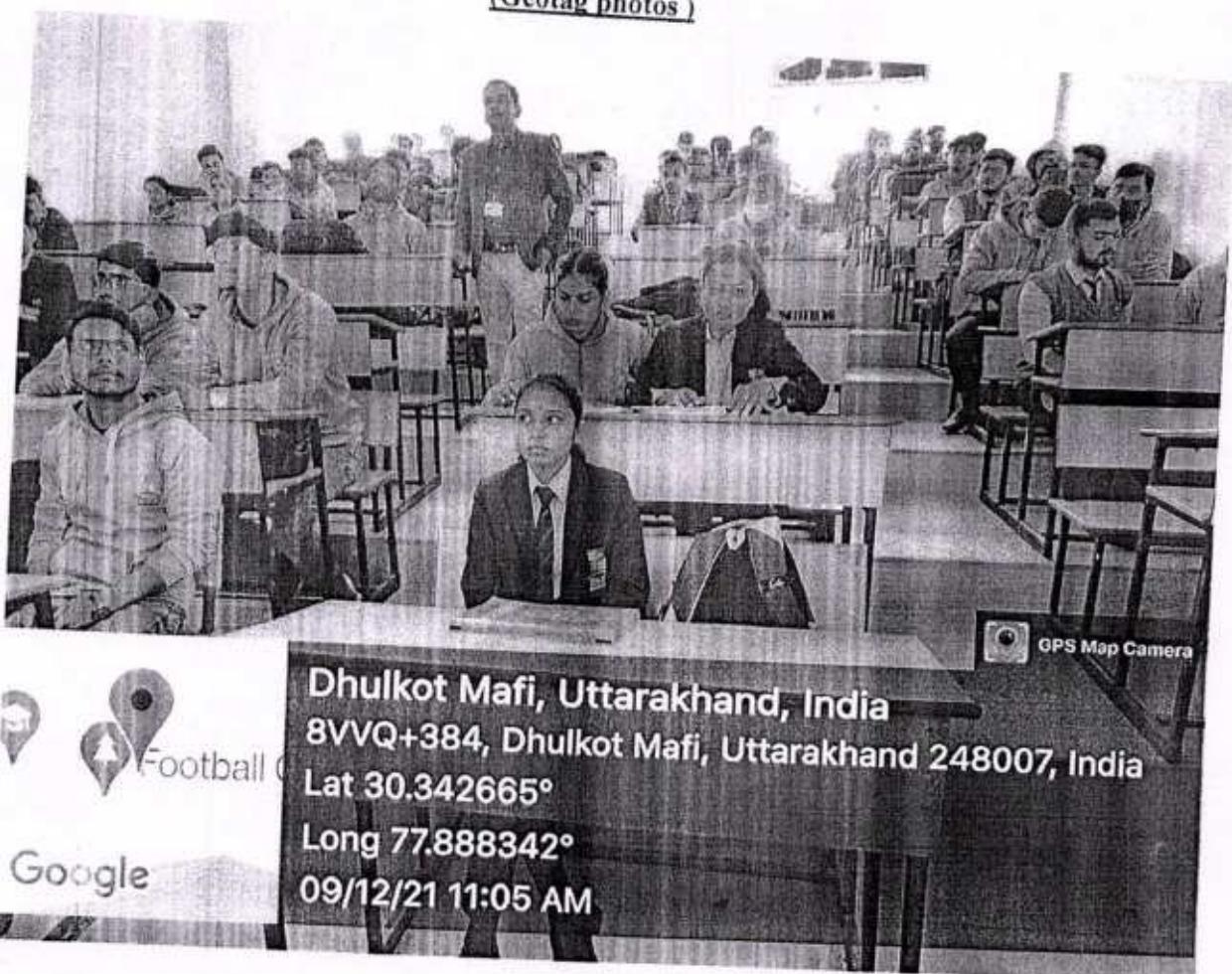


Google Meet

Director
Tula's Institute, Dehradun

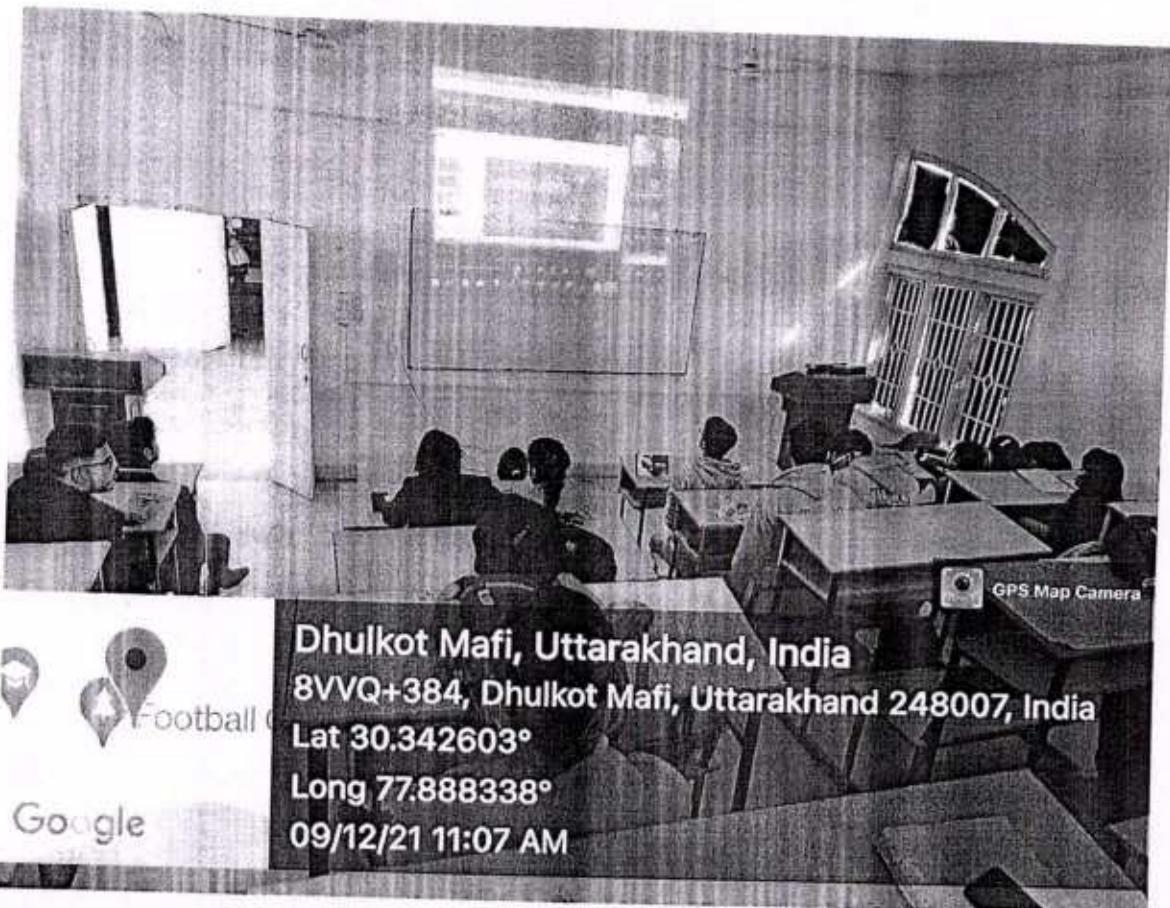
Event Photographs

(Geotag photos)



Dhulkot Mafi, Uttarakhand, India
8VVQ+384, Dhulkot Mafi, Uttarakhand 248007, India
Lat 30.342665°
Long 77.888342°
09/12/21 11:05 AM


Director
Tula's Institute, Dehradun



Google

Dhulkot Mafi, Uttarakhand, India
8VVQ+384, Dhulkot Mafi, Uttarakhand 248007, India
Lat 30.342603°
Long 77.888338°
09/12/21 11:07 AM



Google

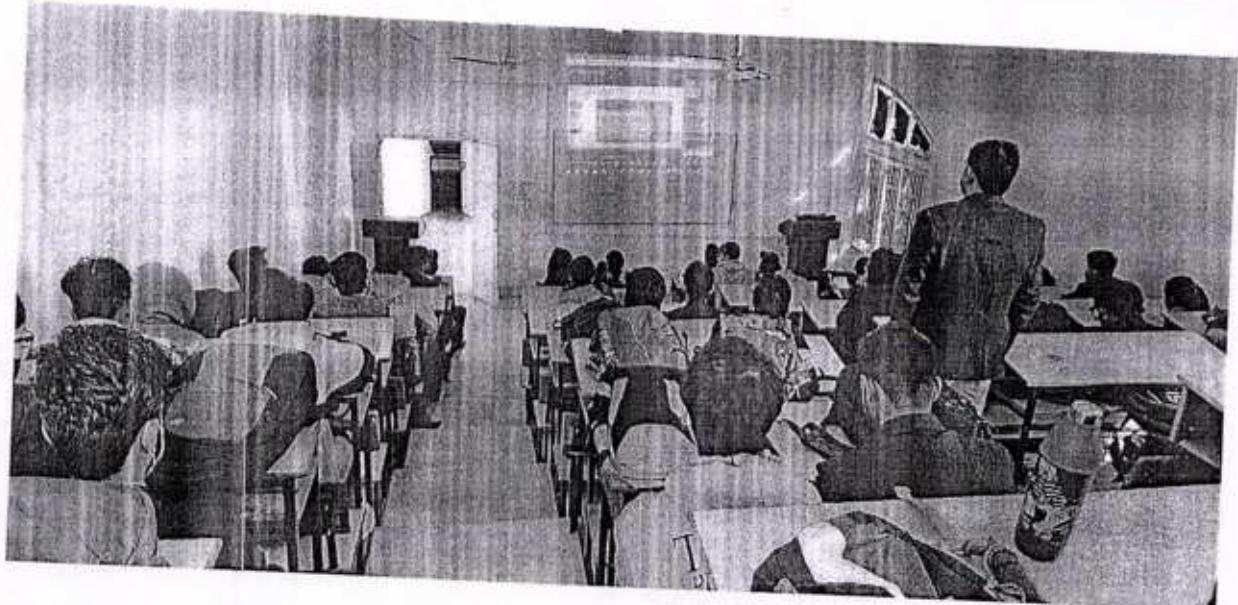
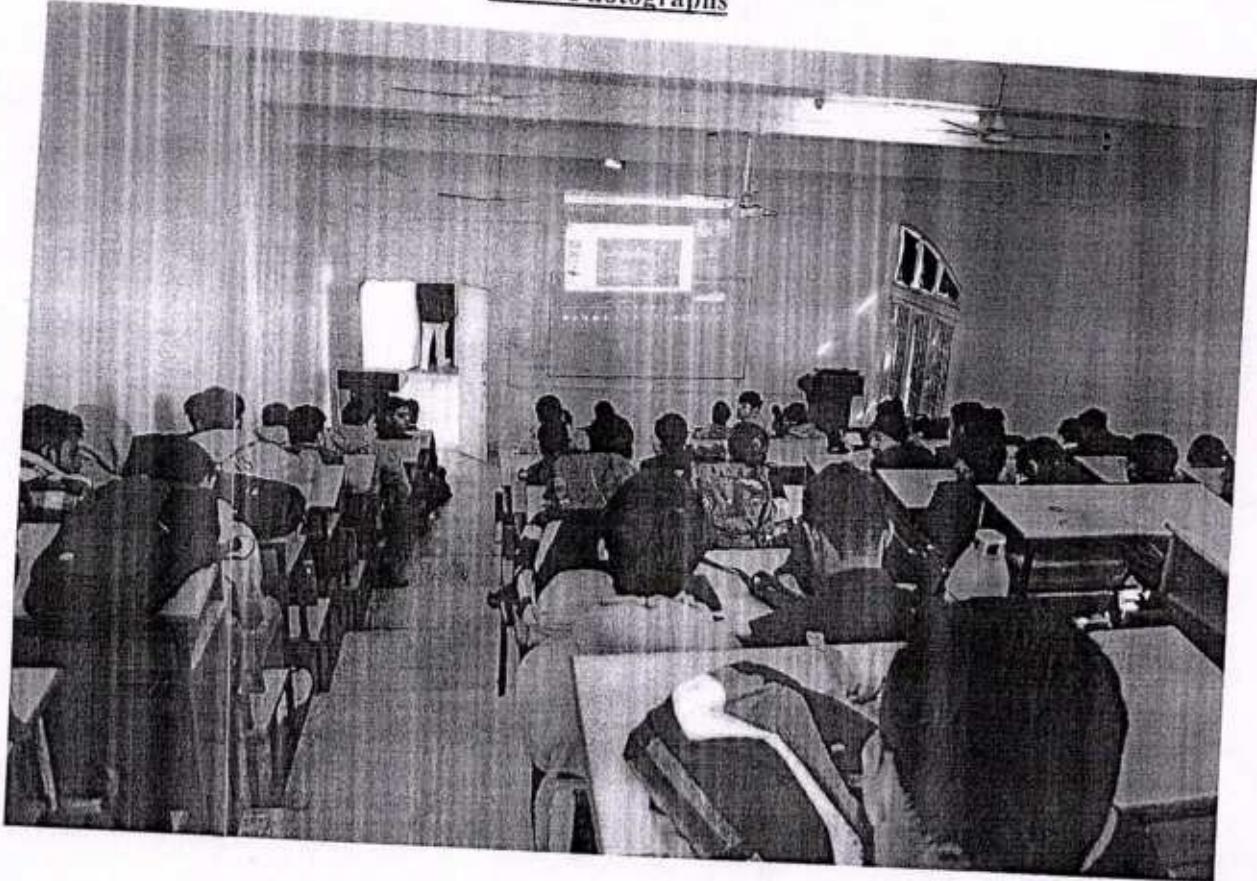
Dhulkot Mafi, Uttarakhand, India
8VVQ+384, Dhulkot Mafi, Uttarakhand 248007, India
Lat 30.342801°
Long 77.888415°
09/12/21 11:11 AM

 Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun

Event Photographs




Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Webinar on Green Computing & IoT Date 09/12/2021

S. No	College ID	Name	Branch and Year	Signature
1	202004016	Saurabh Yadav	2nd year	Saurabh
2	202004038	Shivam Shukla	2nd year	Shivam
3	202004007	Rudraksh Agarwal	2nd year	Rudraksh
4	202004029	Shivani Singh	2nd year	Shivani
5	202004031	Sarthak Rana	2nd year	Sarthak
6	202004084	Rajat Singh Rawat	2nd year	Rajat Singh Rawat
7.	202004106	Suraj Singh Bajwa	2nd year.	Suraj
8	202004017	RAHUL YADAV	2nd Year	Rahul Yadav
9	202004123	PARAM NAUTIYAL	2nd year	P
10	202004126	PARAM ABHISHEK	2nd Year	B
11	202004133	Abhishek Semwal	3rd Year	Abhishek Semwal
12	202004134	Abdul Naif	2nd Year	Abdul Naif
13	202004059	Rohit Bisht	2nd year	Rohit
14	202004097	Priyanshu Deep	2nd Year	P. D.
15	202004074	Harsh Upadhyay	2nd Year	Harsh Upadhyay
16.	202004076	Aditya Kumar	2nd Year	Aditya Kumar
17	202004073	Lumesh MAKHIJA	2nd year	Lumesh
18.	202004121	Bikash Sah	2nd year	Bikash
19.	202004019	Karas Negi	2nd year	Karas Negi

Signature of Head Folku

Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Meeting On "Current Computing & IoT"

Date 09/12/21

S. No	College ID	Name	Branch and Year	Signature
1.	202004056	Aditja choudhary	CSE and 2 nd	<u>Aditja</u>
2.	202004057	Aditya Kumar	CSE 2nd	<u>Aditya</u>
3.	202004057	Ayush sharma	CSE 2nd	<u>Ayush</u>
4.	202004107	Abhijeet Kumar	C.S.E 2nd	<u>Abhijeet</u>
5.	202004015	Amkit Jha	C.S.E 2nd	<u>Amkit</u>
6.	202004027	Dheeraj Singh	C.S.E 2nd	<u>Dheeraj Singh</u>
7.	202004120	Anwag Raj	CSE 2nd	<u>Anwag</u>
8.	202004037	Himanshu Rawat	CSE 2nd	<u>Himanshu</u>
9.	202004036	Manav	CSE 2nd	<u>Manav</u>
10.	202004043	Avinash	CSE 2nd	<u>Avinash</u>
11.	202004026	AwaniSh Pratap Singh	CSE 2nd	<u>AwaniSh</u>
12.	Abish	—	—	—
13.	202004041	—	—	—
14.	202004041	Abhishek Raj Singh	CSE 2nd yr	<u>Abhishek</u>
15.	202004050	Avil Kumar	CSE 2nd yr	<u>Avil</u>
16.	202004060	Mohammad AARIF	CSE 2nd yr	<u>Aarif</u>
17.	202004091	Md. Afroz Ansari	CSE 2nd year	<u>Afroz</u>
18.	202004096	Kartik Singh Sehgal	CSE 2nd year	<u>Kartik</u>
19.	202004125	Mridul Goel	CSE 2nd year	<u>Mridul</u>

Signature of Head hokh


Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Webinar on "green Campbell & IOT"

Date 09/12/21

S. No	College ID	Name	Branch and Year	Signature
1	202004112	ANKIT KUMAR	CSE 2 nd	<u>Ankit</u>
2>	202004114	Bijod Joshi	CSE 2 nd	<u>Bijod</u>
3>	202004087	Awadesh	CSE 2 nd	<u>Awadesh</u>
4>	909004070	Ankit Kr. Rai	CSE 2 nd	<u>Ankit Rai</u>
5>	202004116	Bikash Kumar	CSE 2 nd	<u>Bikash</u>
6>	202004111	Binit Kr. kann	CSE 2 nd	<u>Binit kann</u>
7>	909004018	Purnav k.	CSE 2 nd	<u>Purnav k.</u>
8>	202004012	Yash pati	CSE 2 nd	<u>Yash pati</u>
9>	202004061	Viral Kumar Singh	CSE 2 nd	<u>Viral</u>
10>	202004023	Vinayak Dhar	CSE 2 nd	<u>Vinayak</u>
11>	202004024	Vishal Dhar	CSE 2 nd	<u>Vishal</u>
12>	202004066	Sangeet Singh Rawat	CSE 2 nd	<u>Sangeet</u>
13>	202004014	Akash Gauri	CSE 2 nd	<u>Akash</u>
14>	202004118	Imran Ahmad	CSE 2 nd	<u>Imran</u>
15>	202004022	Abhishek Rawat	CSE 2 nd	<u>Abhishek</u>
16>	202004105	Aamosh	CSE 2 nd	<u>Aamosh</u>
17>	202004092	Manish Kumar	CSE 2 nd	<u>Manish</u>
18>	202004067	Suraj Kumar	CSE 2 nd	<u>Suraj</u>
19>	202004068	Harshit Kumar	CSE 2 nd	<u>Harshit</u>
20>	202004122	Ankit Kumar	CSE 2 nd	<u>Ankit</u>

Signature of Head Jyoti

Jyoti
Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Webinar on Green computing & IoT

Date 09/12/2021

S. No	College ID	Name	Branch and Year	Signature
1.	202004094	Anushka	CSE II	Anushka
2.	202004001	Ritika Singh	CSE II	Ritika
3.	202004030	Fingali Prasad	CSE II	Fingali
4.	202004069	Prateek Mishra	CSE II	Prateek
5.	202004064	Pratik Ojha	CSE II	Pratik
6.	202004065	Ujjwal Singh	CSE II	Ujjwal
7.	202004047	Vinayak Singh	CSE II	Vinayak
8.	202004132	Ritesh Pandit	CSE II	Ritesh
9.	202004002	Pawan Kumar Singh	CSE II	Pawan
10.	202004071	Ramnath Kumar	CSE II	Ramnath
11.	202004108	Aman Kr. Malaiya	CSE II	Aman
12.	202004053	Abhishek Ray	CSE II	Abhishek
13.	202004004	Vikash Singh	CSE II	Vikash
14.	202004078	Prabhat Kainthola	CSE II	Prabhat
15.	202004040	Ranjeet Sah	CSE II	Ranjeet
16.	202004085	Manas Negi	CSE II	Manas
17.	202004104	Anushka R. Kashyap	CSE II	Anushka
18.	202004099	Harsh Katiwal	CSE II	Harsh
19.	202004098	Jai Dhiman	CSE II	Jai

Signature of Head Lukesh


Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Workshop on Green computing

Date 09/12/2021

S. No	College ID	Name	Branch and Year	Signature
1.	202004011	Harsh Raj	CSE 2nd	Harsh Raj
2.)	202004127	Amit Kr. Jha	CSE 2nd	Amit
3.)	202004130	Mo. Arif	CSE 2nd	Mo. Arif
4.)	202004129	Aniket Pant	CSE 2nd	Aniket
5)	202004128	Shubhangi Gargani	CSE 2nd	Shubhangi
6	202004034	Shivam Chauhan	CSE 2nd	Shivam Chauhan
7	202004005	Shana Parveen	CSE 2nd	Shana Parveen
8	202004109 Sachshikha	Shah shash	CSE 2nd	Shah.
9	202004032	Sumit Rana	CSE 2nd	Sumit
10	202004038	Shivam shukla	CSE 2nd	Shivam
11	202004000	Vaishnavi	CSE 2nd	Vaishnavi
12.	202004135	Akashita Katyal	CSE 2nd	Akashita
13.	202004062	Priyanshi Rawat	CSE 2nd	Priyanshi
14.	202004008	Sneha Sharma	CSE 2nd	Sneha
15.	202004006	Dwarka Kumari	CSE 2nd	Dwarka
16	202004021	Shivani Kumari	CSE 2nd	Shivani
17	Pallavi Priti	202004075	CSF 2nd yr	Pallavi
18	202004101	Shivam Saini	CSF 2nd yr	Shivam
19	202004071	Aarpit Kumar	CSF 2nd yr	Aarpit
20	202004026			

Signature of Head Lokan


 Director
 Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Webinar On Green Computing & IoT

Date 09/12/21

S. No	College ID	Name	Branch and Year	Signature
1	201904033	Abhijyan	CSE & 3	Abhijyan
2	201904134	Bhawani	CSE & 3	Bhawani
3.	201904138	Aftab Aalam	CSE 8 3	
4.	201904095	Akash Rawat	CSE 8 3	Akash
5.	201904084 Tarsal Ali	Faishal Ali	CSE 8 3	Faishal
6.	201906010	Ankit Singh Pundir	CSE 4 3	Ankit
7.	201904023	Areshay Kumar Arya	CSE 8 3rd	Areshay
8	201904094	Atul Kumar	CSE 8 3rd	Atul
9	201904049	Kaushal Kumar	CSE 8 3rd	Kaushal
10	201904114	Deepak Kr. Sharma	CSE 3rd	Deepak
11	201904087	Deepanshu Tukreja	CSE 3rd	Deepanshu
12	201904067	ASIF	CSE 3rd	Asif
13.	201904062	Khurram Nawab	CSE 3rd	Khurram
14	201904115	Amn Babu	CSE 3rd	Amn Babu
15	201904031	Jayant Rajan	CSE 3rd	Jayant Rajan
16	201904017	Himanshu Kumar	CSE 3rd	Himanshu
17	201904026	Anurag Ranjan	CSE 3rd	Anurag Ranjan
18	201904106	Abed Aktar	CSE 3rd	Abed
19	201904066	Azeaz Ahmed	CSE 3rd	Azeaz
20	201904048	Anuj Kumar Jain	CSE 3rd	Anuj Jain

Signature of Head Lokesh


Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Cyber Computing & IoT

Date 09/12/21

S. No	College ID	Name	Branch and Year	Signature
1.	201904078	Vishal Gupta	CSE 3 rd year	Visha
2.	201904057	Sandeep Singh	CSE 3 rd year	Sand
3.	201904010	Vikash Singh Verma	CSE 3 rd year	Vikash
4.	201904003	Saransh	CSE 3 rd year	Sar
5.	201904050	Yasai verma	CSE 3 rd year	Yasai
6.	201904006	Naman Kumar	CSE 3 rd yr.	Naman
7.	201904028	Nipun Bhati	CSE 3 rd yr.	Nipun
8.	201904125	Saurav Kr. Mishra	CSE 3 rd yr.	Saurav
9.	201904045	Nitin	CSE 3 rd yr.	Nitin
10.	201904137	Nikhil Kr. Rai	CSE 3 rd yr.	Nikhil
11.	201904117	Priyam Pathadia	CSE 3 rd yr.	Priy
12.	201904110	Sunny Kumar	CSE 3 rd yr.	Sun
13.	201904012	Tenzin Goyche	CSE 3 rd year	Tenzin
14.	201904092	Salil Jashi	CSE 3 rd year	Salil
15.	201904130	Nikhil Bhadoria	CSE 3 rd year	Nikhil
16.	201904002	Pranav Raj	CSE 3 rd year	Pran
17.	201904027	Praveen Singh	CSE 3 rd year	Praveen
18.	201904131	Rohit Malangati	CSE 3 rd Year	Rohit

Signature of Head Lokesh


Director
Tula's Institute, Dehradun

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Wabihai On "Green Computing & IoT"

Date 09/12/21

S. No	College ID	Name	Branch and Year	Signature
1.	Af201904126	Abhijit Bharti	CSE, 3rd year	Abhijit
2.	201904089	Luit Dusad	CSE 3rd yr	Dusad
3	201904127	Abhishek Kumar	CSE 3rd yr	Abhishek
4	201904009	Anurag Agarwal	CSE 3rd yr	Anurag
5.	201904083	Kumari Shilpi	CSE 3rd yr.	Shilpi
6.	201904057	Kunal Agarwal	CSE 3rd Yr	Kunal
7.	201904038	Avinash Kumar	CSE 3rd Yr	Avinash
8.	201904068	Himanshu Gupta	CSE 3rd Yr	Himanshu
9.	201904123	Kishan Kumar	CSE 3rd Yr	Kishan
10.	201904043	Ananya Mishra	CSE 3rd Yer	Ananya
11.	201904055	Deepika Kumar	CSE 3rd yrs.	Deepika Kumar
12.	201904034	Ayush Kumar	CSE 3rd yrs.	Ayush
13.	201904001	Kaustubh Kerdan	CSE 3rd yr.	Kaustubh
14.	201904060	Kishlay Sharma	CSE 3rd yr	Kishlay
15.	201904041	Entesham Khan	CSE 2nd Yer	Entesham
16.	201904098	Kajal Singh	CSE 3rd yr	Kajal
17	201904025	Anjali Kumar	CSE 3rd yr	Anjali Kumar
18	201904079	Kanak Sharma	CSE 3rd yr	Kanak
19	201904035	Chhaya Bharti	CSE 3rd yr	Chhaya

Signature of Head Lokesh


 Director
 Tula's Institute, Dehradun

(B)

Tula's Society of Computer Science and Engineering

Attendance Sheet

Event Name Webinar on IoT & Green computing

Date

9/Dec/2021

S. No	College ID	Name	Branch and Year	Signature
01	201904004	Rajul Ravi	C.S.E 3rd	Rajul Ravi
02	201904146	Pushpanjali Kumar	C.S.E 3rd	Pushpanjali kumar
03	201904049	Rishabh Bhadani	CSE 3rd	Rishabh Bhadani
04	2019041018	Ramakumar	CSE 3rd	Ramakumar
05	201904061	Vivik Sharma	3rd CSE	Vivik Sharma
06	201904036	Vishal Gautam	11	Vishal Gautam
07	201904064	Nikhil Madhu	11	Nikhil Madhu
08	201904140	Sima Bharti	3rd CSE	Sima Bharti
09	201904076	Kapreya Simha	3rd CSE	Kapreya Simha
10	201904008	Smriti	3rd CSE	Smriti
11	201904124	Ragni Ray	3rd CSE	Ragni Ray
12	201904052	Rajat Haresh	3rd CSE	Rajat Haresh
13	201904142	Nabhanshu Bisht	3rd CSE	Nabhanshu Bisht
14	201904108	SAURAV VERMA	3rd CSE	SAURAV VERMA
15	201904102	Rohit Kumar	3rd CSE	Rohit Kumar
16	2019040382	Vikrant Rathore	3rd CSE	Vikrant Rathore
17	201904102	Manish Malhotra	3rd CSE	Manish Malhotra
18	201904044	Swapnil Singh Athlani	3rd CSE	Swapnil Singh Athlani
19	201904040	Manish Ray	3rd CSE	Manish Ray
20	201904072	Priyanshu Singh Tadum	3rd CSE	Priyanshu Singh Tadum
21	201904020	Meenakshi Gautam	3rd CSE	Meenakshi Gautam
22	201904135	Pranay Pratyush	3rd CSE	Pranay Pratyush
23	201904086	Vaibhav Ray	3rd CSE	Vaibhav Ray
24	201904081	Yashasvi Agarwal	3rd CSE	Yashasvi Agarwal
25	201904091	Parth Peshwari	3rd CSE	Parth Peshwari

Tula's Institute, Dehradun
Director

SHORT TERM COURSE ON “AUTOCAD”

The Society of Civil Engineering, Tula's Institute conducted a “**Short Term course on AUTOCAD**” for a week i.e. from on 29 Aug. to 2 Sept. 2022. The trainer for the offline session is **Mr. Amarpreet Singh** who is **Senior Trainer at ICT ACADEMY** affiliation with **IIT KANPUR**. He is also Founder, Director & C.E.O , Senior Manager , Corporate Trainer , Project Manager/Co-Ordinator , Content Developer & SME for higher Education Autodesk ATC Head , West Delhi, Delhi, India

OBJECTIVE

The objective of this course is to teach students the basic commands and tools necessary for professional 2D drawing, design and drafting using AutoCAD. After completing this course users will be able to

- Use AutoCAD for daily working process.
- Navigate throughout AutoCAD using major navigating tools.
- Understand the concept and techniques to draw.
- Create multiple designs using several of tools.
- Create layers to control the objects' visibility.
- Explain drawing using annotations.
- Plot or print the drawing by scale.
- Use constraint for certain design.



Director
Tula's Institute, Dehradun

OUTCOMES OF THE SHORT TERM COURSE

The new trends and future scope of Autocad in Civil engineering it provides unique drafting tools that are used in drawings of engineering components, designs, and infrastructure. It also minimizes human errors and helps the users to bring their imagination to life with accuracy.

LEARNING OUTCOMES FOR THE STUDENTS

1. Demonstrate basic concepts of the AutoCAD software
2. Apply basic concepts to develop construction (drawing) techniques
3. Ability to manipulate drawings through editing and plotting techniques
4. Understand geometric construction
5. Produce template drawings
6. Produce 2D Orthographic Projections
7. Understand and demonstrate dimensioning concepts and techniques
8. Understand Section and Auxiliary Views
9. Become familiar with the use of Blocks, Design Centre, and Tool Palettes
10. Become familiar with Solid Modelling concepts and techniques.



Director
Tula's Institute, Dehradun

EVENT POSTER



DEPARTMENT OF MECHANICAL & CIVIL ENGINEERING
IS ORGANIZING 5 DAYS WORKSHOP ON

AUTOCAD



MR. AMARPREET SINGH

(ICT Academy, IIT Kanpur)

Specialization: AutoCAD, SolidWorks, CATIA, NX,
Cam & CNC, 3D-Printing

29TH AUG- 2ND SEPT, 2022

TIME: 10:30 AM - 1:00 PM & 2:00 - 4:00 PM

Venue: Computer Lab No. 5, Tula's Institute



Director
Tula's Institute, Dehradun

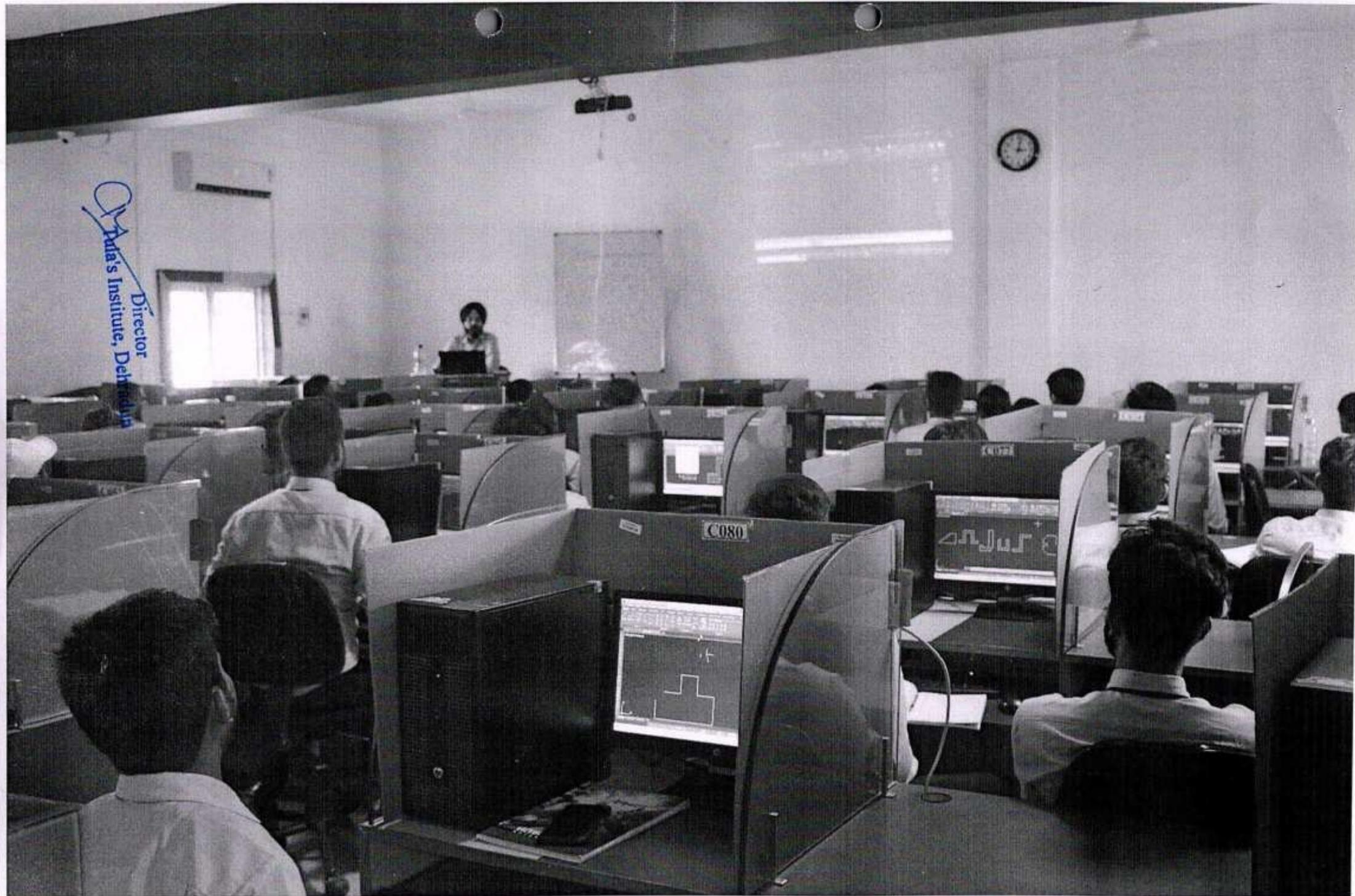
Concepts Related to "CADD"

- CAD (Computer Aided Design OR Drafting)
- CAM (Computer Aided Manufacturing)
- CAE (Computer Aided Engineering)
- PPM (Project Planning & Management)




Director
Tula's Institute, Dehradun


Director
Mata's Institute, Dehradoon



Press Release for GUEST LECTURE ON “APPLICATION OF REMOTE SENSING FOR WATER RESOURCES”

The Society of Civil Engineering, Tula's Institute conducted a guest lecture on **“APPLICATION OF REMOTE SENSING FOR WATER RESOURCES”** on 4/11/2022. The speaker for the session is Dr L.N Thakural who is Scientist D in Surface water division at NIH Roorkee . He is also State Coordinator for the State Specific Action Plan for Water for the state of Uttar Pradesh under National Water Mission.

OBJECTIVE

The objective of the guest lecture is to ascertain students about the importance of remote sensing for water resources.

- To aware the students about remote sensing.
- The uses of arc GIS for finding & locating the natural water resources.
- The importance of water as a resources & how to make most efficient use of it , for sustainable development.
- Techniques which can be implemented for the protection of water bodies.
- To estimate meteorological variables like temperature and precipitation
- To estimate hydrological state variables like soil moisture and land surface characteristics.
- To intimate students about , near-real time monitoring of flood, drought events, and irrigation management are possible with the help of high resolution satellite data.



Director
Tula's Institute, Dehradun

OUTCOMES OF THE GUEST LECTURE

The uses of new age technology & softwares for geo locating the natural water bodies. How to use them in an efficient way , for the benefit of both human beings & also conserving mother nature at the same time.

Students also learned about the measures which can be taken for the preservance of the known water source ,for their optimum & sustainable use.

EVEN POSTER

**TULA'S
DEHRADUN**

DEPARTMENT OF CIVIL ENGINEERING IS
ORGANIZING A GUEST LECTURE ON

**APPLICATION OF REMOTE
SENSING FOR WATER RESOURCES**

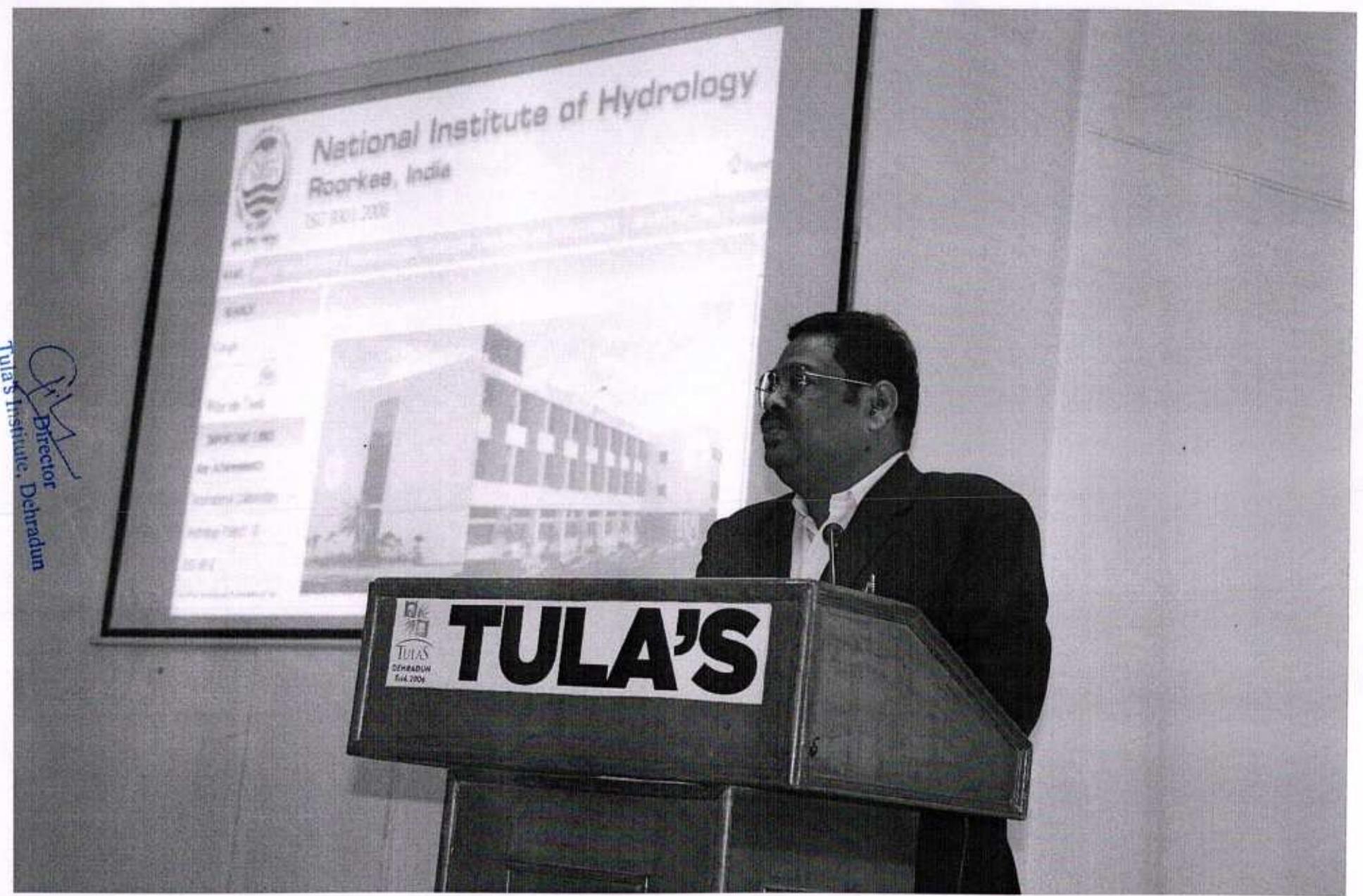


DR. L.N. THAKURAL
Scientist-D
Surface Water Division/NIH Roorkee)

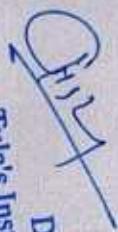
4th NOV, 2022

TIME: 10:30 AM ONWARDS
VENUE: SEMINAR HALL, TULA'S INSTITUTE


Director
Tula's Institute, Dehradun



Director
Tula's Institute, Dehradun



Director
Tula's Institute, Dehradun



GPS Map Camera

Mehreka Gaun, Uttarakhand, India

8VVP+5JM, Mehreka Gaun, Uttarakhand 248007,

India

Lat 30.342873°

Long 77.886546°

04/11/22 11:04 AM GMT +05:30



TULA'S INSTITUTE, DEHRADUN

Date-29/10/21 to 12/12/21

'Shri Nityanand Swami Janseva Samiti, NGO Drive , by Tulas Institute under
Department of Civil Engineering at Balliwala, Dehradun'

Segregation of clothes for orphan & needy children

In our country child, born to parents who have been poor for generations, not allowed to educate themselves or their children, ostracised from main society for centuries. There's another child, born to some parents, but left with none, thrown in a dumpster, or left in a park, to die or to survive on its own, no idea where to get food from, or even how to get food, clothes & shed , nowhere to go, and no one to love him/her.

The Challenge

There are over 2 crore orphans in India; more than the total population of Sri Lanka! This figure is from a detailed study by SOS Children's Villages. The ChildLine portal of the Government states that "UNICEF estimates that there are 25 million orphaned children in India in 2007" and, "Another study estimates that there are about 44 million destitute children and over 12 million orphan and abandoned children in India". The Planning Commission and the Government have never had a structured survey of these children. For all we know, this figure could be much higher.

Initiative by Tula's Institute and Shri Nityanand Swami Jan Seva Samiti (Reg.)

Tula's Institute organized clothes distribution & segregation in association with Shri Nityanand Swami Jan Seva Samiti at Balliwala, Dehradun from 29/10/21 to 12/12/21. Students of Tula's, Civil Engineering Department (2nd year) were involved in distribution & segregation of clothes for homeless & needy children. Students distributed clothes to children living in slums 7 who were homeless.



Director
Tula's Institute, Dehradun

TULA' S INSTITUTE, DEHRADUN

Objectives of the Event

1. To increase awareness among students about the human charitable work towards the needy & orphans children in our society.
2. To provide clothes to needy & homeless children of Dehradun.

Outcomes of the Event

1. By this drive students got to know the major issues in our country like child labour , abuse.
2. This drive helped to increase the sentimental emotion in students towards the needy & orphan childrens of the society.



Chintan
Director
Tula's Institute, Dehradun

TULA'S INSTITUTE, DEHRADUN

Event Photographs



Distribution of clothes to needy by Tula's students.



Director
Tula's Institute, Dehradun



Distribution of clothes to needy by Tula's students.



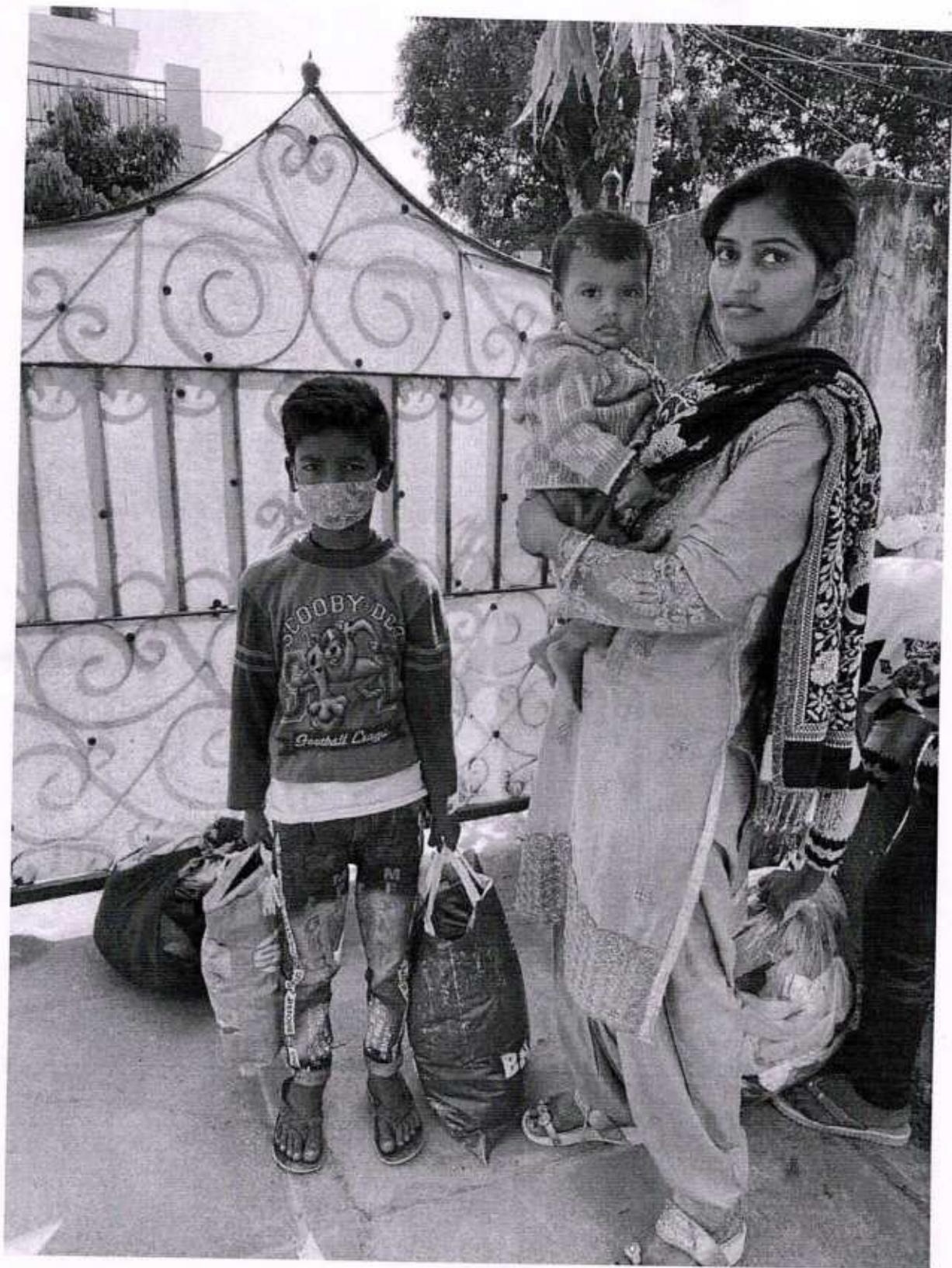
Tula's student with families who benefitted from this drive.

 Director
Tula's Institute, Dehradun



Tulas students with children to whom clothes were distributed.


Director
Tula's Institute, Dehradun



Benefitted family.


Director
Tula's Institute, Dehradun



Shri nityanand swami NGO Officia.


Director
Tula's Institute, Dehradun

DEPARTMENT OF CIVILENGINEERING

SESSION:2021-2022 (ODD SEM)

Year: Civil 2nd Year

LOCATION: FOREST RESEARCH INSTITUTE, DEHRADUN

The Department of Civil Engineering, Tulas Institute Dehradun organized a Industrial visit exposure for Students of BTech(2nd year) under the curriculum Study of Historical & Ancient Civil Engg. at FRI Dehradun on 25th November 2021.

Students took a keen interest in observing the building of FRI. They were also taken to various museum located inside FRI , where they got to know about various types of timber & bricks which can be used for construction purposes , which has no replacement in modern Architecture.

Overall it was a fun thrilled & knowledgeable experience for students.

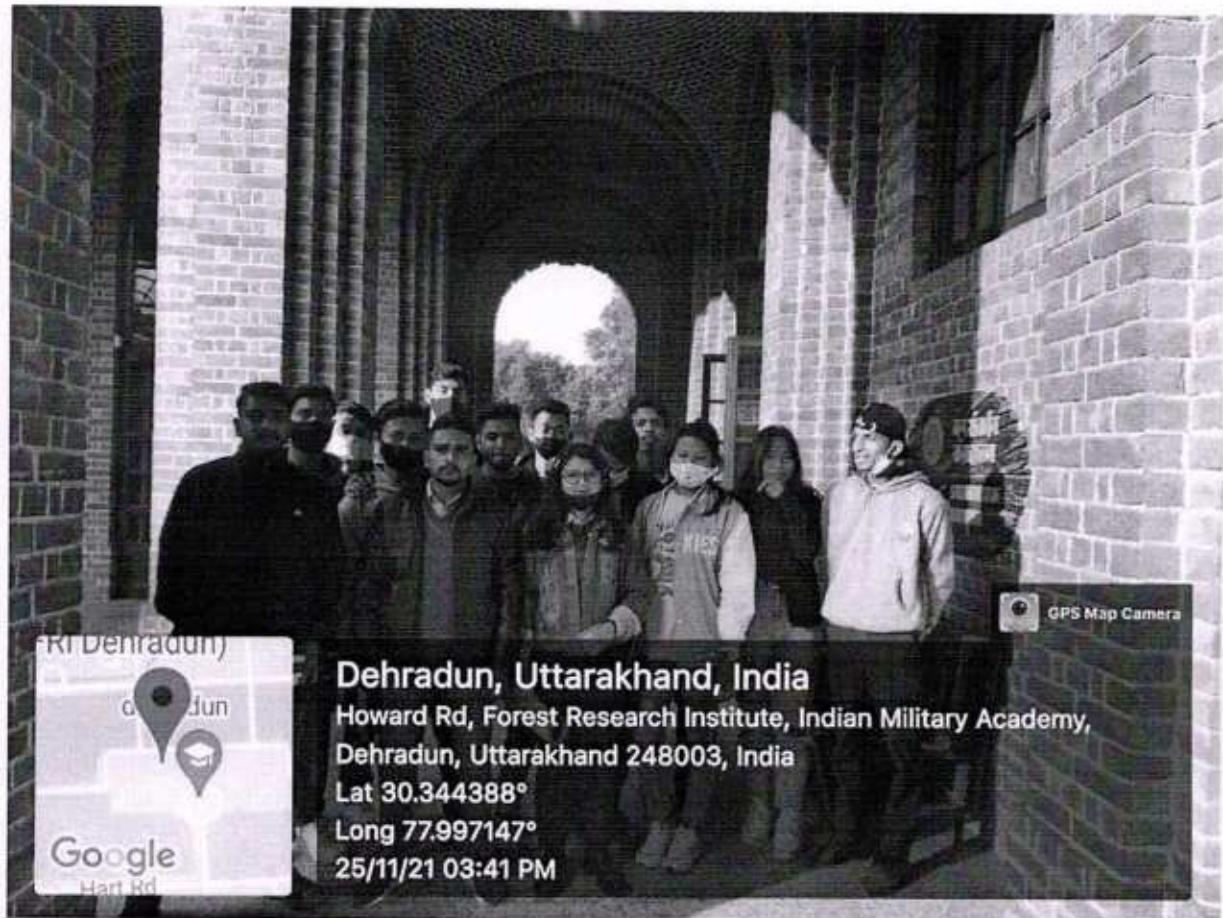
Objectives of the Event

1. To know various aspects of Geology in Civil Engineering, different kind of timbers available.
2. To know various variety of timber available.
3. Importance of historical structures.

Outcomes of the Event

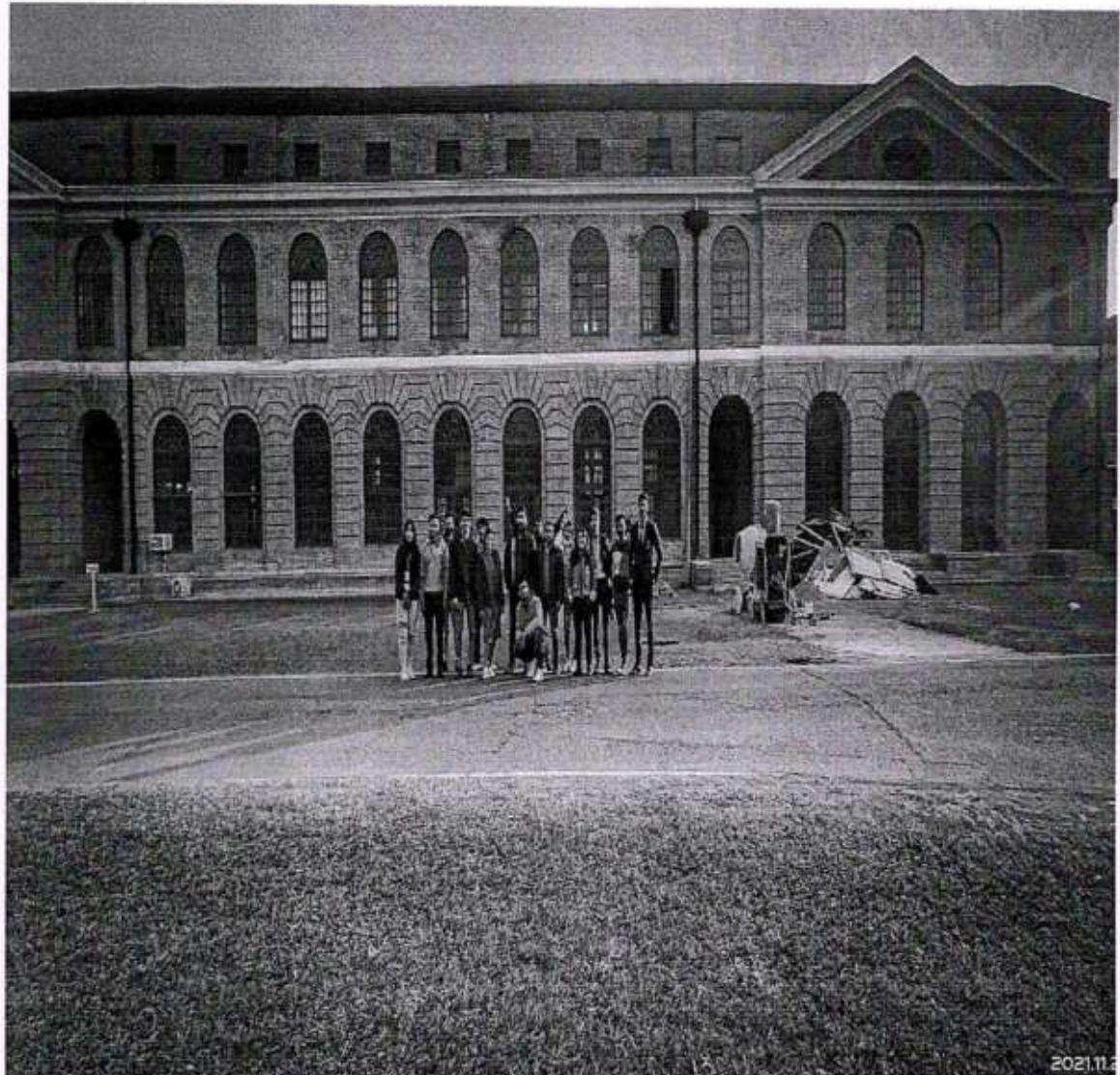
1. During the visit students learned the importance of historical structures, their construction methodology, interpretation of the heritage.
2. Students came across variety of timber samples & geological samples which they have studied in theory, they could implement the knowledge in real world.
3. Students also learned about architecture & civil engg. aspect of ancient building & their importance to us as a society in whole.


Director
Tula's Institute, Dehradun



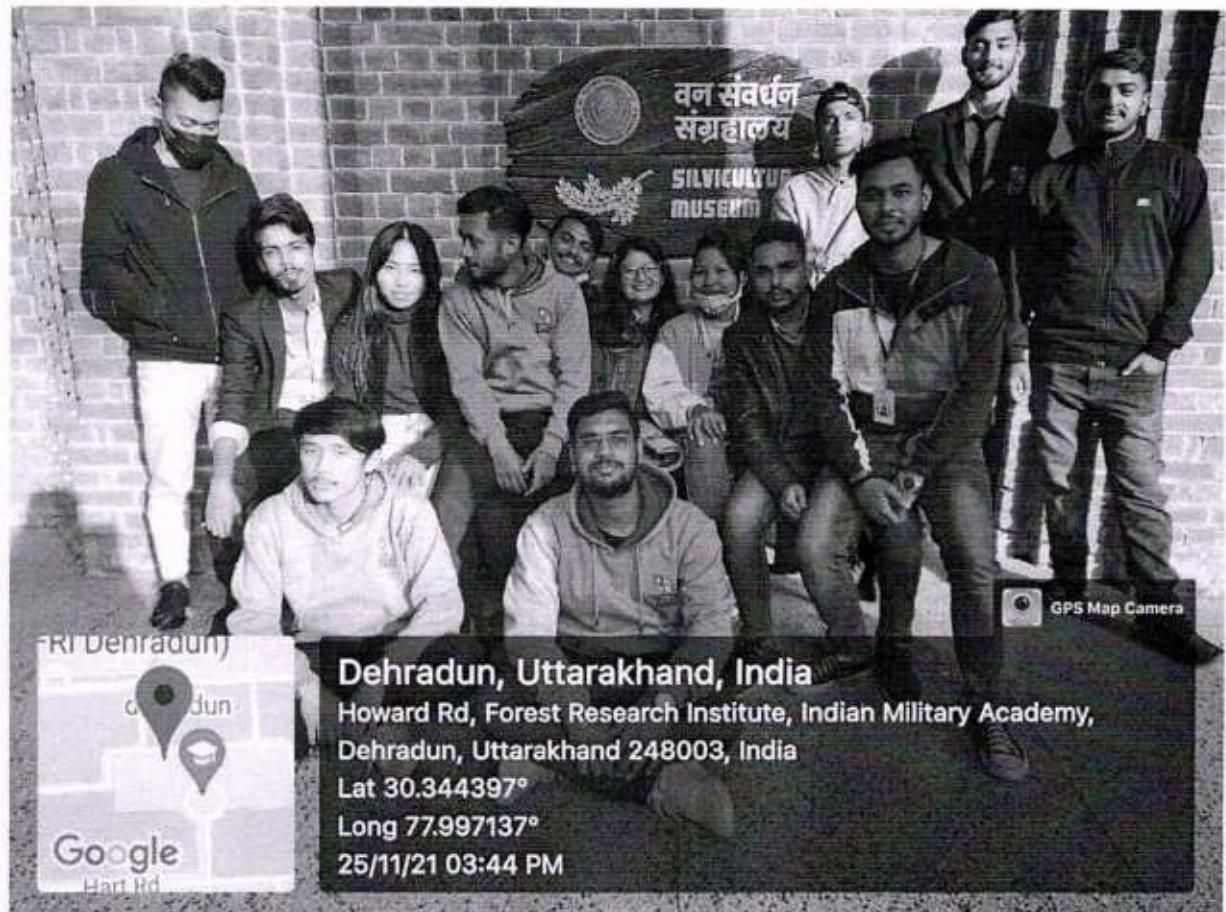
Students of Civil Engineering, Outside Timber Mueseum FRI Dehradun.

A handwritten signature in blue ink, appearing to read "Ch", followed by the title "Director" and the name "Tula's Institute, Dehradun" in a stylized, cursive font.



Students in the FRI field.


G.H. Director
Tula's Institute, Dehradun



Students outside Silviculture museum.


Director
Tula's Institute, Dehradun

ATTENDANCE

FRI visit of 2nd Year Students			
S No.	Student Name	University Roll No.	Date
1	200120107001	Ashiqueet Kumar	25-11-2021
2	200120107003	Aman Kumar Yadav	
3	200120107004	Deepak Yadav	Spw + *
4	200120107005	Giogi Tache	6/10/21
5	200120107006	Kabita Rana	Kabita
6	200120107007	Lale Gyedi	lale gyedi
7	200120107009	Mohd Anas	Anas
8	200120107010	Navin Kumar	N
9	200120107011	Roshan Kharel	R
10	200120107012	Rupesh Yadav	Rupesh
11	200120107013	Salung Mekhulshire	S
12	200120107014	Subodh Be'hasa	S
13	200120107015	Uttam Bohora	U
14	710120107001	Ajay Kumar	Ajay
15	710120107002	Alito Sumi	ALITO
16	710120107003	Atung Begang	Atung
17	710120107004	Ganesh Dimri	G
18	710120107005	Leenukshi Negi	L
19	710120107006	Mohit Kumar	Mohit
20	710120107007	Nehal Ahmed	Nehal
21	710120107008	Nunesano Nakhrw	Nunesano
22	710120107009	Sachin Bhat	Sachin
23	710120107012	Toka N Katty	Toka

HoD 
 Department of Civil Engineering
 Tula's Institute, Dehradun


 Director
 Tula's Institute, Dehradun

WATER WORKS DEPARTMENT VISIT OF DIPLOMA, 2nd & 3rd YEAR STUDENTS

The Department of Civil Engineering, Tulas Institute Dehradun organized an Industrial visit to Water Works Department, Dehradun exposure for Students of BTech(2nd & 3rd year) & Diploma on 23rd March 2022. During the visit students learned the importance of treatment of water before it is being supplied for human consumption.

Students also saw the working of different stages of water purification like sedimentation , filtration & dis-infection in real time.

Overall it was a learning & knowledgeable experience for students, as they saw real working of the instruments & processes about which they are taught.

Objectives of the Event

1. To know various processes involved in the filtration of drinking water.
2. To view the real working of different types of tanks & machines involved in the process.

Outcomes of the Event

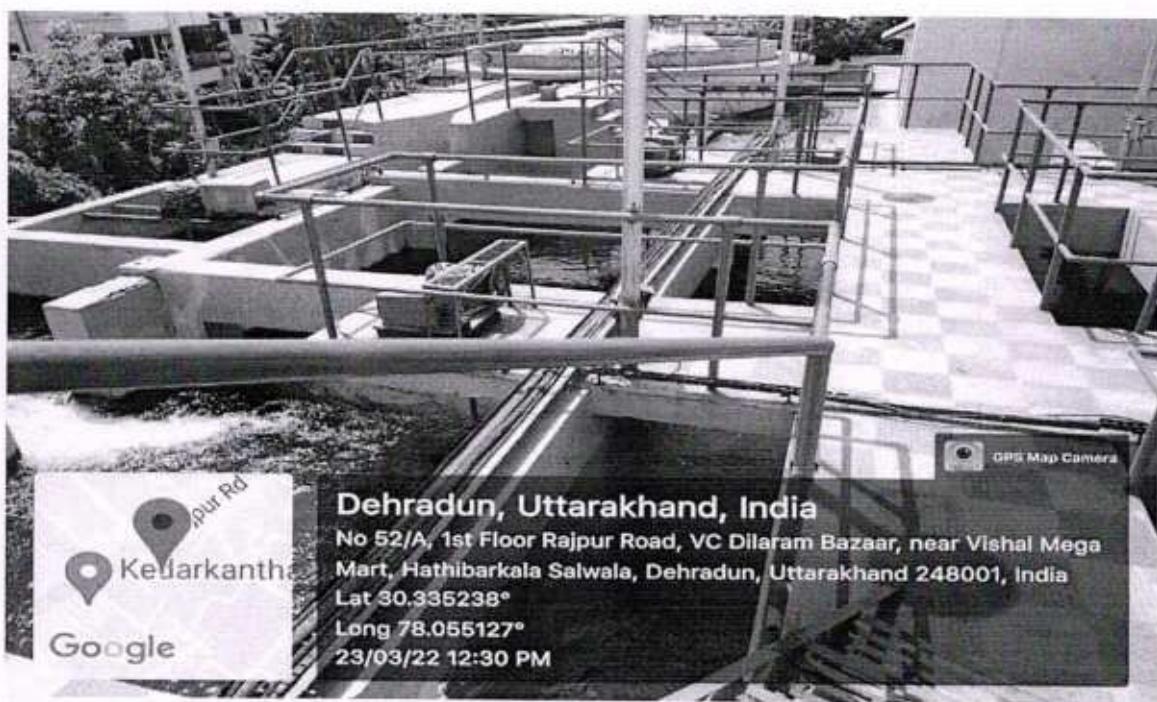
1. Students saw real working of the instruments & processes about which they are taught.
2. They learned different processes which are used for water purification.



[Signature] Director
Tula's Institute, Dehradun



Students over the Sedimentation tank.



Chlorination chamber.


Director
Tula's Institute, Dehradun



Students at Water Works department Dehradun.


Director
Tula's Institute, Dehradun



Students learning about Screens to filter out waste.


Director
Tula's Institute, Dehradun



Students near the Screen chamber of the facility.

A handwritten signature in blue ink, appearing to read "Tulsi".

Director
Tula's Institute, Dehradun

ATTENDANCE

Water Works Department Visit			
No.	Student Name	University Roll No.	Date
1	Amit Kumar	190120100107	23-03-2022
2	Abhishek Prasad	190120100901	Present
3	Abhishek Chandra	190120100002	Present
4	Aditya	190120100700	Aditya
5	Amandeep	190125170004	Amandeep
6	Utkarsh Bhadoria Patel	190120100306	Utkarsh
7	Dipak Verma	190120100707	Dipak
8	Gaurav Dukhan	190120100408	Present
9	Gautam Kumar Singh	190120100209	Present
10	Hariom Saini	190120100702	Present
11	Harish Yadav	190120100701	Harish
12	Kumar Gaurav	190120100302	Present
13	Lohit Verma	190120100714	Lohit
14	Mritish Kumar Meena	190120100115	Mritish
15	Marken Karmic	200420100016	Marken
16	Md. Saffiha Rabi	190120100707	Safiha
17	Mohammed Khan	190120100713	Present
18	Natna Firdaus	190120100700	Natna
19	Niraj Singh Dhoni	190120100702	Niraj
20	Rakesh Kumar Mandat	190120100701	Mandat
21	Rezaul Haq	190120100702	Rezaul
22	Ranjeet Singh	190120100704	Present
23	Udit Karmveer Yadav	190120100625	Udit
24	Umesh Choudhary Tharu	190120100703	Umesh
25	Utsi I Chisti	190120100702	Utsi
26	Laki G Jaisi	200422170003	Laki
27	Pavitra Arjya	190120100704	Pavitra
28	Pritam Gopal	200120100605	Pritam
29	Raman Verma	200320100706	Raman
30	Sellvi L. Singhai	190120100700	Sellvi
31	Sujimmoni Langkhamer	190120100700	Sujimmoni
32	Toshi Rinal	190120100705	Toshi
33	Vikas Z. Awole	190120100700	Vikas


 HoD
 Department of Civil Engineering
 Tula's Institute, Dehradun
 23/3/22


 Director
 Tula's Institute, Dehradun

SURVEY OF INDIA

VISIT OF DIPLOMA(2nd &3rd) & BTech 2nd (2022-23)YEAR STUDENTS

The Department of Civil Engineering, Tulas Institute Dehradun organized an Industrial visit to Survey of India , Dehradun exposure for Students of diploma (2nd &3rd) & BTech 2nd year on 25th November 2022. During the visit students learned the importance surveying in different filed like mapping , cartography etc.

Students also came across old surveying equipments which were used in old times for survey work & also how they functioned.

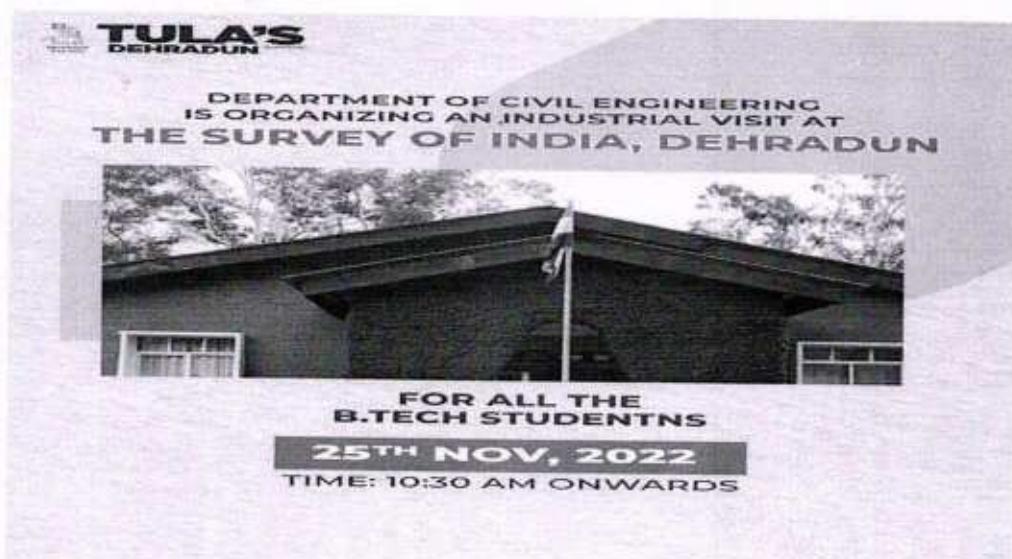
Overall it was a learning & knowledgeable experience for students, as they saw real working of the instruments & processes about which they are taught.

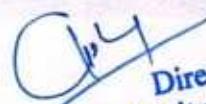
Objectives of the Event

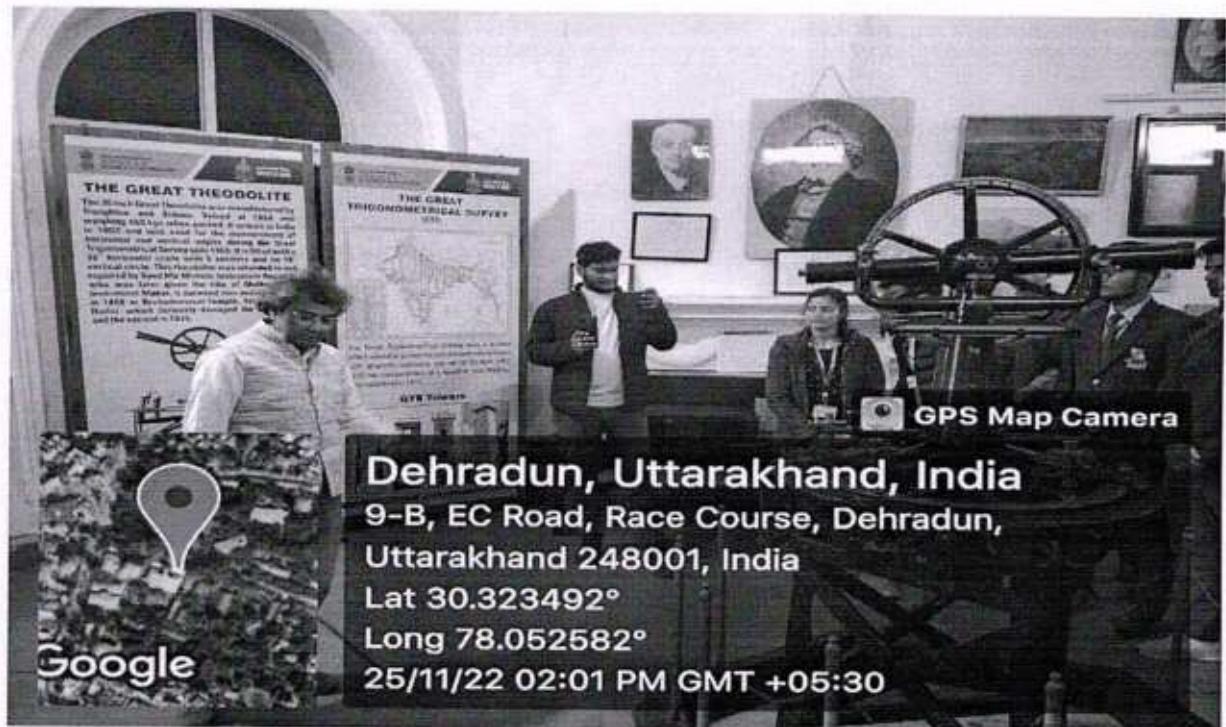
1. To make students understand how surveying is done on a broader scale.
2. To showcase the students old surveying equipments.

Outcomes of the Event

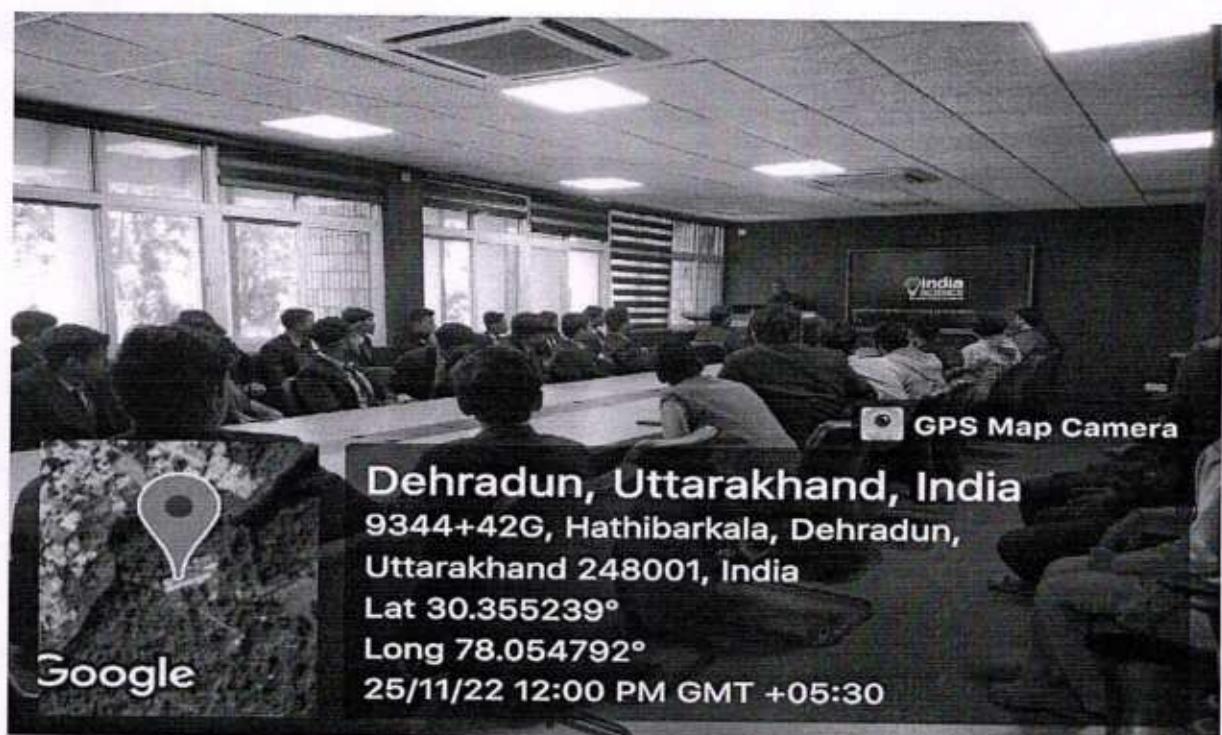
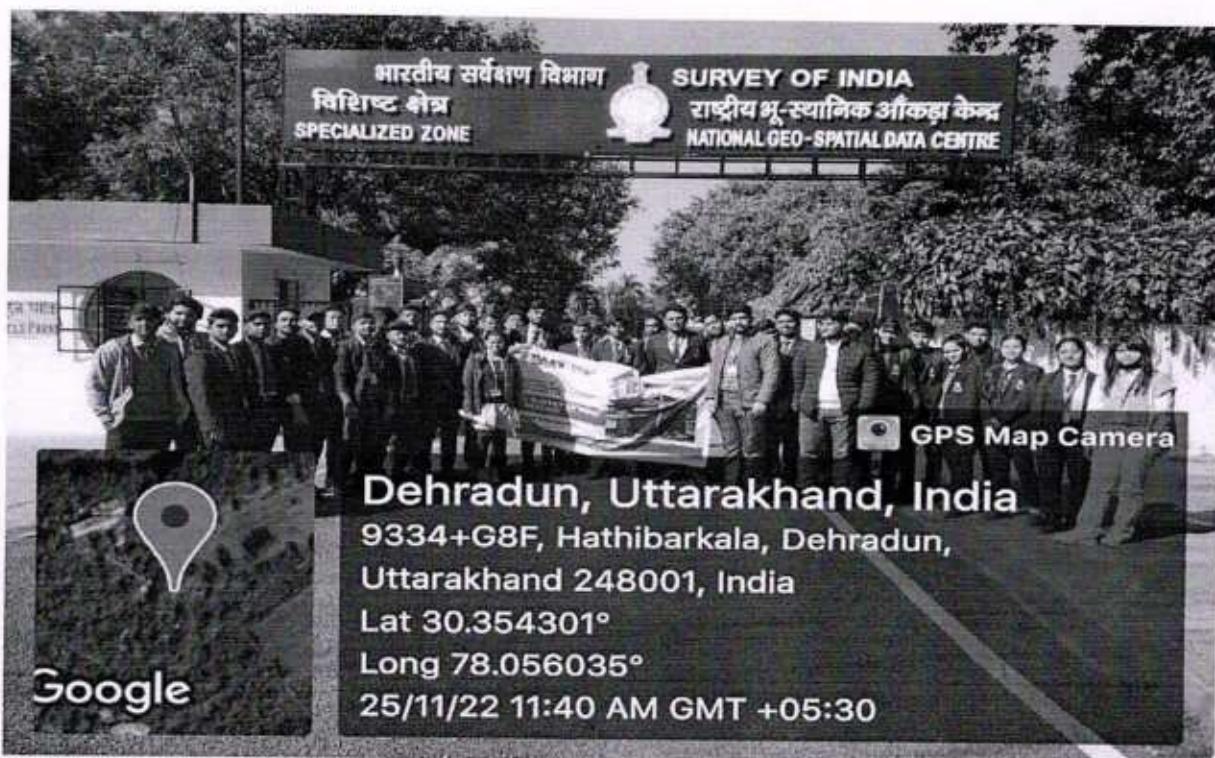
1. Students learned the process of map making.
2. How surveying is used in different aspects of engineering like tunnel, roads, railways etc.




Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun




Director
Tula's Institute, Dehradun

Tula's Institute, Dhoolkot, Dehradun			
Visit To Survey Of India, Dehradun			
Semester : 3rd	Year: 2nd Year		
Programme : B.Tech	Branch : Civil		
Date and Time : 25/11/2022			
S.No:	Roll No./ Clg ID	Name	Attendance
1	210120107001	ABHAY KUMAR PANDEY	Present
2	210120107002	ADARSH KASHYAP	Adarsh Kashyap.
3	210120107003	ADITYA DUBEY	(AB)
4	210120107004	ALOK DEBNATI	Alok
5	210120107005	AMIT KUMAR SINGH	Amit Kumar Singh
6	210120107006	ANUGREH PAUL	Anugreh Paul
7	210120107007	BAMANG TALUM	(AB)
8	210120107008	BHAVESH MALLA	(AB)
9	210120107009	BISHWAS BAHADUR BHETWAL	Bishwas Bahadur Bhetwal
10	210120107010	CHINGANBAM LUHENBA	Chinganbam Luhenba
11	210120107012	JITENDRA KUMAR SAH	Jitendra Kumar Sah
12	210120107013	KATIN LIBANG TASING LIBANG	Katin Libang Tasing Libang
13	210120107014	KIVITO H KHALA	Kivito H Khala
14	210120107015	KRISHNA YADAV	Krishna Yadav
15	210120107016	PARAS PANDEY	Paras Pandey
16	210120107017	RAJKUMAR VIKRAMADITYA SINGH	Rajkumar Vikramaditya Singh
17	210120107018	RIYA	Riya
18	210120107019	SHARAD RAMCHING	Sharad Ramching
19	210120107020	SOLINDAR MAHARA	Solindar Mahara
20	210120107022	TASSAR TERI	Tassar Teri
21	210120107023	YORUM VIVEK YORUM TACH	Yorum Vivek Yorum Tach
22	202106028	ADITYA SINGH	Aditya Singh
23	202106029	SHESUTO CHIZO	Shesuto Chizo
24	202106027	HETOKI T TUCCU	Hetoki T Tuccu
25	202106032	ALICIA DEBBARMA	Alicia Debbarma
26	202106031	MAHATMA DEBBARMA	Mahatma Debbarma
27	202106036	POHAR DEBBARMA	Pohar Debbarma
28	202106033	KHUMCHA JUGLI	Khumcha Jugli
29	202106035	PRITAM KUMAR	Pritam Kumar
30	202106034	NISHANT KUMAR	Nishant Kumar
31	202106030	RITESH BISHT	Ritesh Bisht
32	202106037	LELIN NIDO	Lelin Nido
33	202106038	TANISHQ RAJ	Tanishq Raj
34	202106039	NIKHIL	Nikhil

Total Student = 28.

Name & Signature Of Teacher

HOD
Signature of HOD

Department of Civil Engineering
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

Tula's Institute, Dhoorkot, Dehradun			
Visit To Survey Of India, Dehradun			
Semester : 5th	Year: 3rd Year		
Programme : Diploma	Branch : Civil		
Date and Time : 25/11/2022			
S.No:	Roll No./ Clg ID	Name	Attendance
1	201130202002	ABHISHEK KUMAR	Present
2	201130202003	ANJALI PRADHAN	P
3	201130202007	MOHIT	Present
4	201130202008	MUKESH KUMAR	AB
5	201130202010	PRINCE JOSHI	P
6	201130202012	RAJAT	Present
7	201130202013	RISHITA NAUTIYAL	P
8	201130202016	VISHAL KUMAR	Present

Total Student = 7

Name & Signature Of Teacher

Signature of HOD

HOD
Department of Civil Engineering
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

Tula's Institute, Dhoolkot, Dehradun

Visit To Survey Of India, Dehradun

Semester : 3rd

2nd Year.

Programme : Diploma

Branch : Civil

Date and Time : 25/11/2022

S.No:	Roll No./ Clg ID	Name	Attendance
1	2021020008	BIKASH KUMAR SAH	Present
2	2021020011	IOOBITMI MULICH	Present
3	2021020002	NEERAJ KUMAR	/
4	2021020003	ROHIT	/
5	2021020001	VINAY SHARMA	✓
6	2021020010	VIVEK CHAUHAN	✓
7	2021020014	JYOTI	✓
8	2021020017	MANISH KUMAR	/
9	2021020018	Aman ali	Absent
10	2021020019	Harsh kapil	Absent

Total Student = 8.

Name & Signature Of Teacher

Signature of HOD

HOD
Department of Civil Engineering
Tula's Institute, DehradunQutub
Director
Tula's Institute, Dehradun

आरती- अर्देशण विभाग
विशिष्ट क्षेत्र
SPECIALIZED ZONE

SURVEY OF INDIA

यांत्रीय भू-स्थानिक औंकड़ा केन्द्र
NATIONAL GEO-SPATIAL DATA CENTRE



GPS Map Camera



Dehradun, Uttarakhand, India

9334+G8F, Hathibarkala, Dehradun,
Uttarakhand 248001, India

Lat 30.354307°

Long 78.056066°

25/11/22 11:40 AM GMT +05:30

Google


Director
Tula's Institute, Dehradun

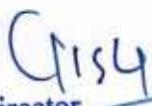
**Learning through Extension
activities:**

Tree Plantation

Blood Donation

Sawach Bharat Abhiyan

Voter Awareness


Dr. G. S. Tuli
Director
Tula's Institute, Dehradun

Press Release of "Vishwakarma Puja"

The Society of Mechanical Engineering, Tula's Institute organised Vishwakarma Puja on 17th September 2021.

Vishwakarma Puja, also known as Vishwakarma Jayanti, is an important festival celebrated by the Hindu community. On this day, the divine architect or the architect of the Gods, Lord Vishwakarma is worshipped. The festival falls on the last day of Bhadra, known as Kanya Sankranti or Bhadra Sankranti.

As per Hindu religious belief, Lord Vishwakarma, regarded as the creator of the world, constructed Dwarka where Lord Krishna ruled. He is also credited with Sthapatya Veda, the science of architecture and mechanics.

The event was organized at Tula's institute and it was celebrated with great enthusiasm and zeal. The students of mechanical department actively participated in organizing Puja ceremony.

All the faculties and staff members were present there to seek the blessings of lord Vishwakarma.



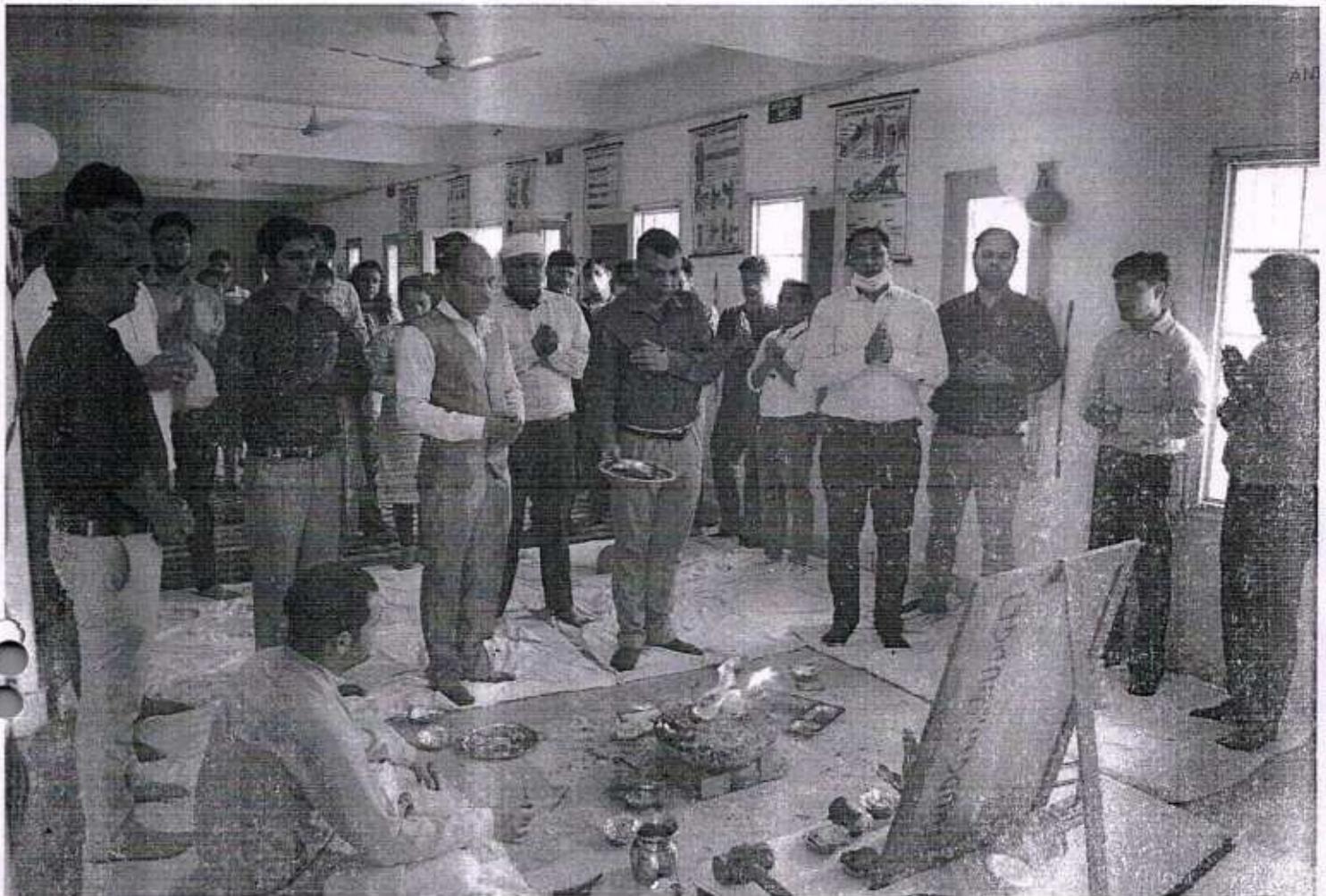
Director
Tula's Institute, Dehradun



C
Director
Tula's Institute, Dehradun



G.M
Director
Tula's Institute, Dehradun

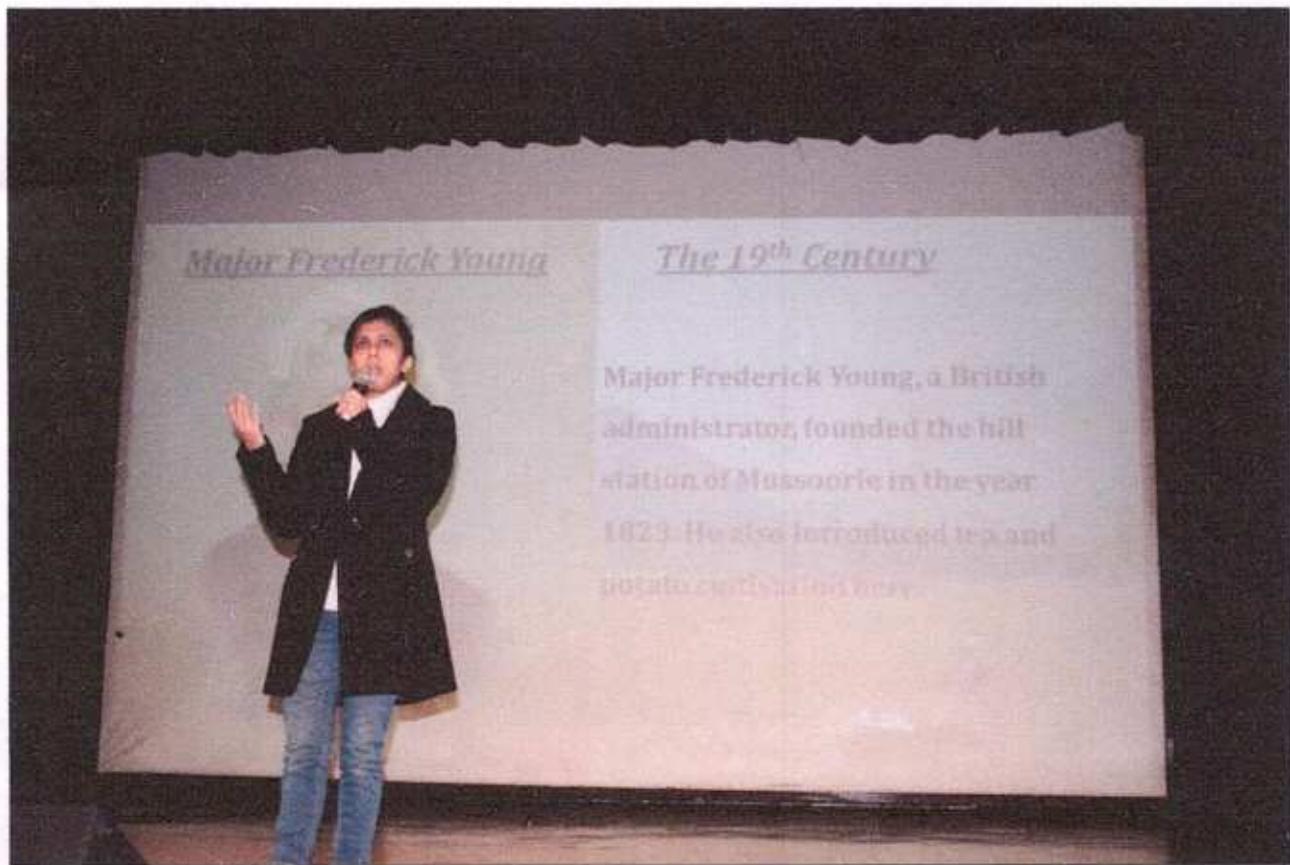


[Handwritten signature]
Director
Tula's Institute, Dehradun

Tula's Hosts a Heritage Talk for Valley Lovers

14th December 2021

Department of Journalism and Mass Communication of Tula's Institute organised a talk on 'Culture and Heritage of Dehradun' on 14th December. The talk began with the felicitation of guest speaker Ms Sargam Mehra, co-founder of 'Been There Doon That'. The talk informed the attendees of the history of the least explored places of Dehradun, like Rock Edicts of Kalsi, Khalanga War Memorial etc. Students also got to know about some historically important personalities like Guru Ram Rai, Fredrick Young and Sir George Everest. Guest lecturer Ms Mehra also educated the students about the geographical and strategic importance of Doon valley. The event ended with a formal announcement of the placement drive of Calvin Klein & Tommy Hilfiger for students of graduate school of business.




HoD
Department of Journalism & Media
Tula's Institute, Dehradun


Director
Tula's Institute, Dehradun



HoD

Department of Journalism & Media
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

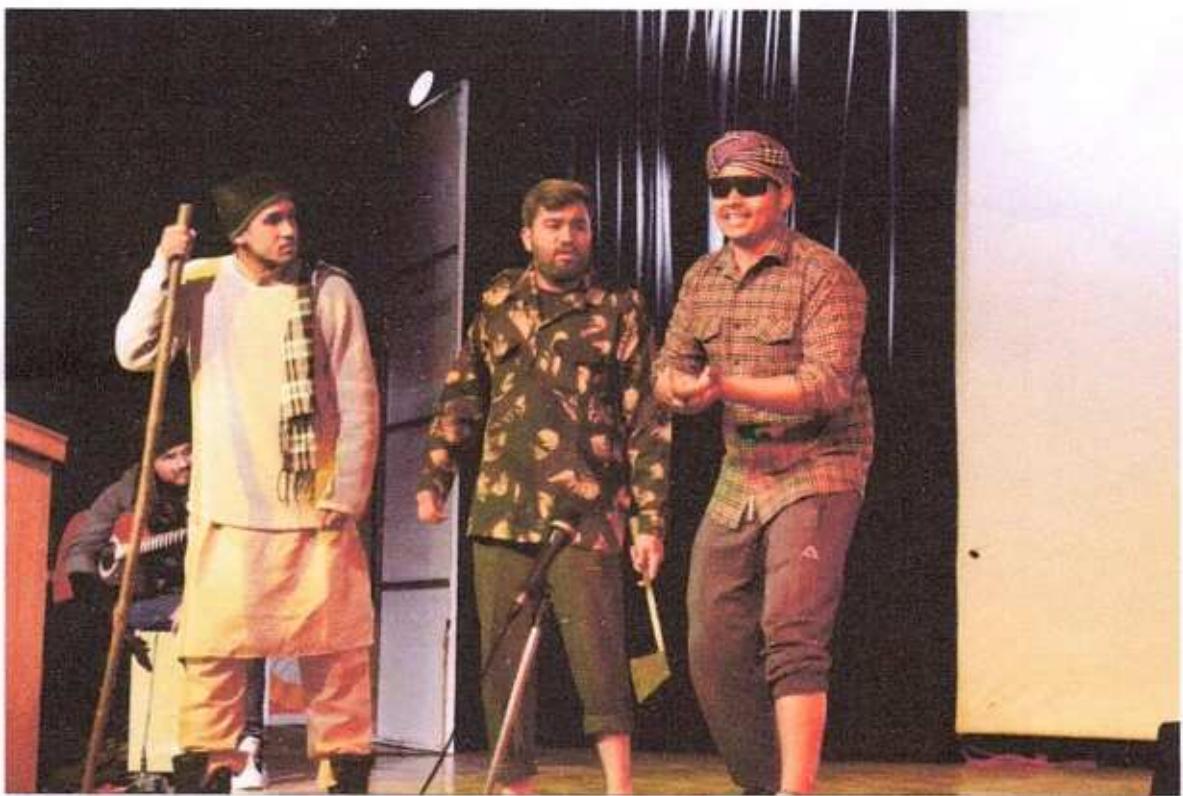
Heera Bail ki Atmakatha Play

Department of Journalism and Mass Communication organised a theater show name 'Heera bail ki atmakatha' in association with Anaam sansthan at Tula's auditorium on 4/03/22. The play was prepared in a workshop organised under the banner of Sanskriti nideshalaya, govt. of uttarakhand. The writer and director of the play Dr. Ahsan Bakhs was present during the play along with director and Dean of Tula's Institute. The play kept the audience grasped in its story and got concluded with a fabulous standing ovation and cheers from the crowd. Seeing the spellbinding performance of artists director Dr. Sandeep Vijay invited Dr. Ahsan Bakhs to have a theater workshop with tula's manchan group as well.




JMD
Department of Journalism & Media
Tula's Institute, Dehradun


AM
Director
Tula's Institute, Dehradun



NoD
Department of Journalism & Media
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

Tulaites remembered Baba Saheb on his Birth Anniversary

Date – 14/April/2022

The Department of Journalism & Mass Communication along with NSS observed a full day event on the occasion of "Ambedkar Jayanti". The programme began with addressal from Aditya Kumar who talked about the theme of the event "Sabke Ambedkar". The Introductory addressal was followed by a lovely musical performance where students of BJMC & GSB sung songs of resistance. After that, Abhishek Juneja of Ambedkar Reading Group, Dehradun gave a talk on the topic Dr. Ambedkar- a writer & the activist. Vinith Kumar, an Independent Documentary Film Maker & core member of ARG gave a talk on the need to remove Ambedkar from the shadow of the Indian Constitution. Students gave soon after the two distinguished guests of students gave their speech and remembered Dr. Ambedkar on his 130th birth anniversary. Teaching faculty and students from across all departments were present during the event. Office Bearers of General and Academic Administration also graced the event with their presence. Dr. Arora, Director IQAC gave a vote of thanks and concluded the blissful event.



HoD
Department of Journalism & Media
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun



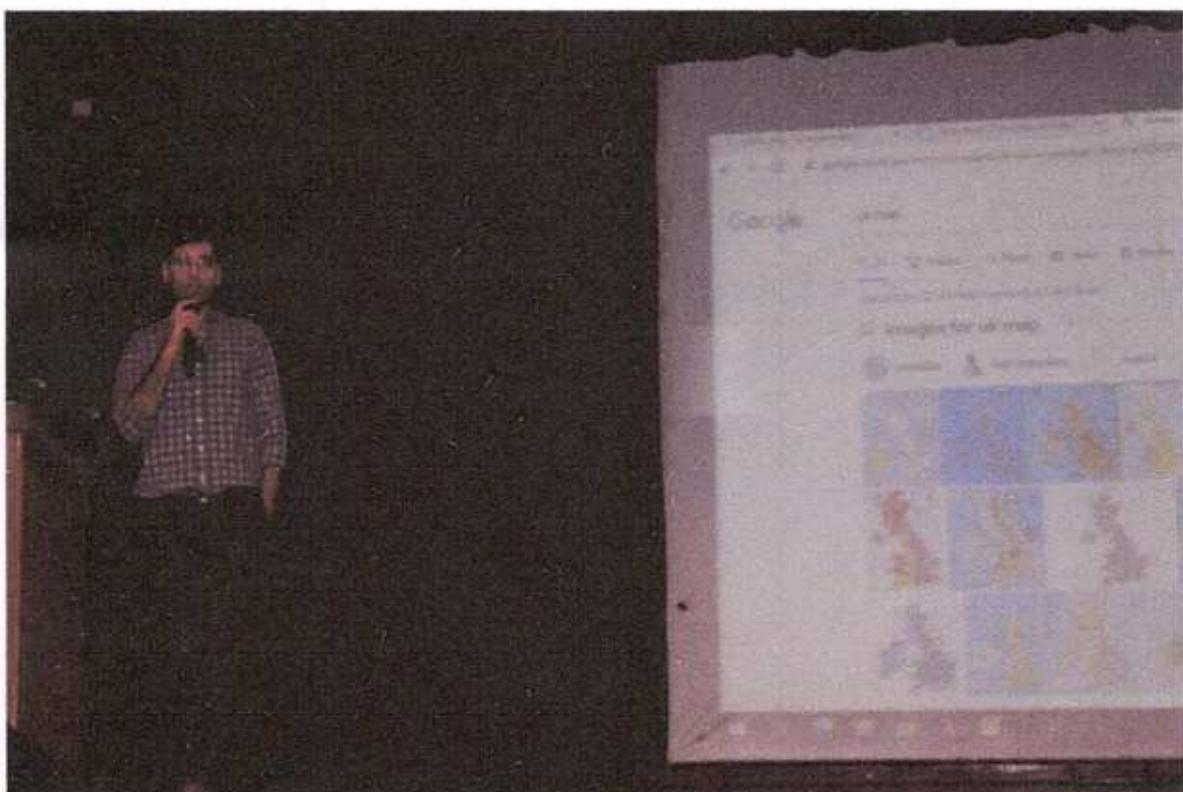
HoD
Department of Journalism & Media
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun

Journalism & Mass Communication hosted a talk on constitutionalism.

Tuesday, 30/08/22, Auditorium, Tula's Institute.

The Department of Journalism & Mass Communication along with the First Principle Collective organized an awareness session on constitution and constitutionalism on Tuesday i.e, 30/08/22. The session was undertaken by Mr. Abhishek Juneja, Founder member of FPC. In his addressal, he talked about the historicity, objective, and relevance of the constitution for running a nation state. Before the beginning of the session Dr. Ramesh Chandra Pathak, Head of the Journalism Department where he enlightened the gathering about the historical presence of doctrines that governed the societies of the past. Students and faculty members of all departments were present to attend the session.



Department of Journalism & Media
Tula's Institute, Dehradun

Director
Tula's Institute, Dehradun



 HoD
Department of Journalism & Media
Tula's Institute, Dehradun

 Director
Tula's Institute, Dehradun

Annexure – VII

Club Activities



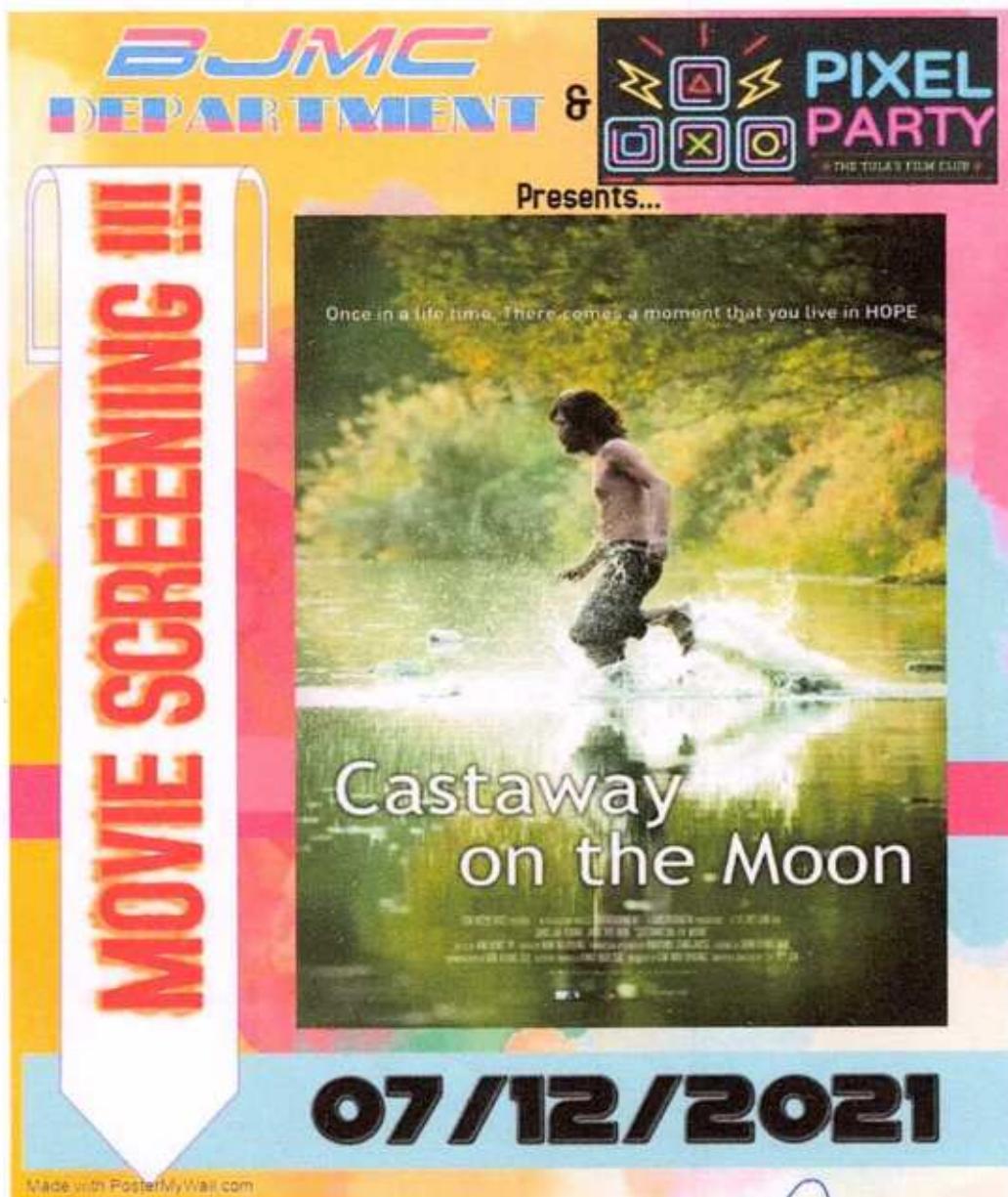
Dr. S. K. Dixit
Director

Tula's Institute, Dehradun

Tula's Institute, Dehradun
Department of Journalism and Mass Communication

Pixel Party Film Screening

We also organise movie screening under our film club called "Pixel Party" where we discuss and talk about existing discourse in cinema world.



[Signature] Director, Tula's Institute, Dehradun
[Signature] HoD, Department of Journalism & Media
Tula's Institute, Dehradun

Pixel Party



THE FILM SCREENING & DISCUSSION FORUM OF TULA'S

in association with

Graduate School of Business

Presents

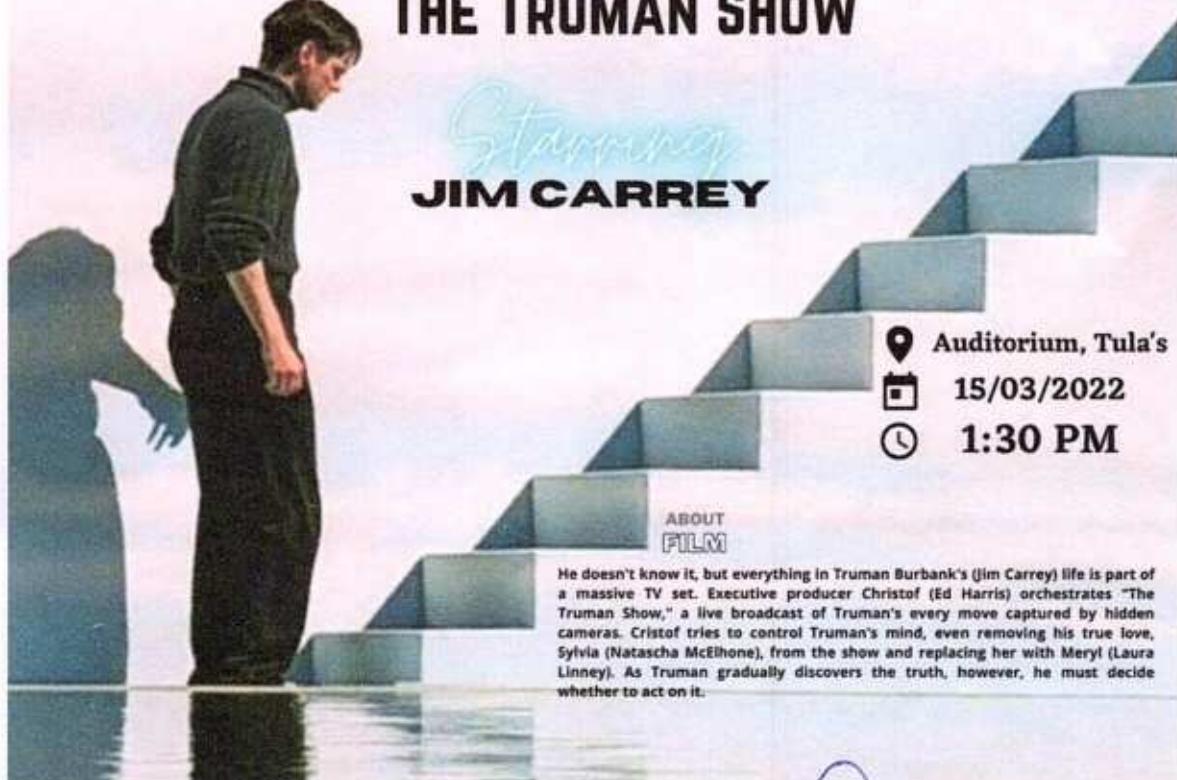
THE FIRST MOVIE SCREENING OF 2022

The movie under discussion is Peter Weir's

THE TRUMAN SHOW

Starring

JIM CARREY



Auditorium, Tula's

15/03/2022

1:30 PM

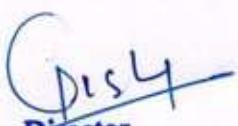
ABOUT FILM

He doesn't know it, but everything in Truman Burbank's (Jim Carrey) life is part of a massive TV set. Executive producer Christof (Ed Harris) orchestrates "The Truman Show," a live broadcast of Truman's every move captured by hidden cameras. Christof tries to control Truman's mind, even removing his true love, Sylvia (Natascha McElhone), from the show and replacing her with Meryl (Laura Linney). As Truman gradually discovers the truth, however, he must decide whether to act on it.


D
Department of Journalism & Media
Tula's Institute, Dehradun


Director
Tula's Institute, Dehradun

Teaching through Case Studies


Dr. P. S. Dahiya
Director
Tula's Institute, Dehradun

Case Study for Practice Succession Planning

The die was cast. Prem Nath Divan, executive chairman of Vertigo, the country's largest engineering project organisation, decided to switch tracks for a career in academics. Divan was still six years short of the company's retirement age of 65. His premature exit was bound to create a flutter at the Vertigo board. Having joined Vertigo as a management trainee soon after college, he had gradually risen through the hierarchy to take a board position as the marketing director of the firm, he had become the President five years later and the youngest chairman of the company at 45. But, by the time he was 50, the whiz kid had acquired a larger than life image of a role model for young managers and a statesman who symbolised the best and brightest face of Indian management. On his wife's suggestion that it would be wise to discuss the move with one of his trusted colleagues before making a formal announcement of his intention to seek premature retirement, Divan called on Ramecharan Saxena, a solicitor who has been on the Vertigo board for over a decade. Saxena was surprised at Divan's plan. But he was unfazed. "If that is what you want to do for the rest of your life, we can only wish you well", he told him. "The board will miss you. But the business should get down to the task of choosing successor. The sooner it is done, the better".

"I think the choice is quite obvious," said Divan, "Ranjan Warrior. He is good and ..." Divan was taken aback to see Saxena's grim face. "You don't have anything against him, do you?" he asked him. "No, no," said Saxena, "He is good. A financial strategist and a visionary. His conceptual skills have served the company well. But he has always had staff role with no line experience. What we need is someone from operations. Like Richard Crasta". "Richard knows things inside out alright," said Divan, "But he is just a doer. No fire in the belly. Vertigo needs someone who understands the value of power and knows how to use it. Like me. Like Ranjan". "That is just the problem", said Saxena, "Prem, let me tell you something. Ranjan is a man in your own image. Everyone knows that he is your protégé. And protégés are never popular. He has generated a lot of resentment among senior Vertigo executives and there would be a revolt if he were to succeed you. An exodus is something we can't afford to have on our hands. We should think of someone else in the interest of stability of top management". Divan could not believe what he heard. He had always himself on his hands-on style thought he had his ear to the ground. "How could I lose touch?" he wondered, somewhat shaken.

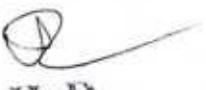
"When you are the boss, people accept your authority without question," continued Saxena. "In any case, you have been successful at Vertigo and it is difficult to argue with success. But the moment you announce your intention to leave, the aura begins to fade away. And in deciding on your successor, the board will seek your opinion, with due regard to your judgement. The board members must do what in their view is right for the company. Having said that, may I also mention that if there is a showdown in the boardroom, you could always choose to stay on? We would like it. Or we could bring in an outsider". "I have finalised my career plans and there is no question of staying on beyond six months from now," said Divan. "The board is scheduled to meet next month. Let us shelve the matter till then. In the meantime, I rely on you, Ram, to keep this discussion between the two of us". "Of course, yes," said Saxena.

On his way home, Divan thought about the matter in detail. Bringing an outsider would undo all his life's work at Vertigo. There were considerations like culture and compatibility, which were paramount. The chairman had to be an inside man. "Richard lacks stature," Divan said to himself. "Ranjan is the one I have been grooming, but heavens, the flip side of it all had missed me completely. There is no way I can allow a split at the top just before I quit. I must leave on a high note in my own interest. I must find a way out of the imminent mess".

Question

- i. What should Divan do?

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Case Study: Labour Unrest at Manesar Plant of Maruti Suzuki in 2012, A Perspective

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Introduction

In the early 1980s, it was beyond the dreams of common man to own a local made car which could match the imported ones. The restrictive and claustrophobic policy atmosphere made it virtually impossible to produce anything or establish a factory without the painfully slow process of permits, inquisitions and denials from an army of bureaucrats who had no domain knowledge but had all the controls to enable or kill corporate initiatives. In such period, Maruti Udyog Limited was born, thanks to the influence of Late Sanjay Gandhi, son of the then Prime Minister Indira Gandhi which eased the way through the maze of permit raj. So, by 1983, India had produced its first alternative to the ubiquitous Ambassador of Hindustan Motors owned by Birlas and Premier aka Fiat owned by Doshis.

Objectives

The primary objective of this case study is to give business, social and historical perspective of the reasons behind the series of incidents that took place at the Manesar plant of Maruti Udyog Limited in 2012 which lead to the murder of a senior HR executive and extensive damage to property. In that, the take away for the reader is to,

- Know the occurrences at Maruti Udyog Limited Manesar plant which took place in December 2011 and in July-September 2012



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- Understand the background of industrial relations at Maruti Udyog since its inception.
- Take into cognizance the business dealings and the changes which took place in the management of Maruti Udyog Limited.
- Comprehend the social milieu of the Manesar area, its people, their aspirations and the triggers for criminal acts which took place in 2012.
- Understand the Japanese philosophy of industrial relations and management and in that background as to how the local populace identified themselves with their employer.
- Assess the possible causes for the criminal acts which took place in 2012 at Maruti Udyog taking into account all the factors mentioned above

The secondary objective of this case study is to highlight the future implications of the unpleasant incidents which took place at Maruti Udyog Limited and to encourage the reader to think of the further effects of the same in the industrial relations and business scenario in India from the long term point of view.

A Brief History of Industrial Relations at Maruti Udyog Limited

Founded in 1983, Maruti Udyog Limited had few problems in its labour relationships. The locally hired workforce accepted the Japanese work culture and the modern manufacturing processes. In 1997, with the changed ownership, Maruti came under government control. From there on, the conflicts between the United Front Government and Suzuki started. Labour problems started under the management of the Indian government. In 2000, a major IR issue began and employees of Maruti Udyog went on an indefinite strike, demanding major revisions of their wages, incentives and pensions. Employees resorted to 'slowdown' in Oct 2000, to force a revision to their pay and perks. After the elections were held and a new central government led by the NDA alliance took command, pursuant to the disinvestments

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policy, the new administration proposed to sell part of its stake in Maruti Suzuki in a public offering through a red herring perspective. The workers opposed this public offer plan on the grounds that the company will lose a major business advantage of being subsidised by the Government and that the workers are better protected under the Govt control..

The cold war between the union and the management continued through 2001. The management did not pay heed to the union demands because of increased competition in the automotive sector and lower profit margins. The central government prevailed and privatized Maruti Udyog in 2003. Suzuki of Japan became the majority owner of Maruti Udyog Limited with 51% share with the public holding 12.5%.

In late 2011 and early 2012, labour unrest started in the Manesar Plant with Sonu Gujjar, a local labour leader demanding right to establish an alternative labour union due to non alignment of a large section of workers with the existing union. The problem was solved in a rather sneaky way by the management by sending off Sonu Gujjar and twelve others with a Golden Handshake scheme which lacked transparency.

Manesar Violence July 2012

On 18 July 2012, Maruti's Manesar plant was hit by violence as workers at one of its auto factories attacked supervisors, engineers and other management personnel and burnt and killed a senior HR executive, injured 100 managers, including two Japanese expatriates. The mob also injured nine policemen. The company's General Manager of Human Resources had both arms and legs broken by his attackers, unable to leave the building that was set ablaze, and he was charred to death. The incident is the worst-ever for Suzuki since the company began operations in India in 1983 and one of the most heinous of industrial crimes in the history of India.

From April 2012, the Manesar plant workers' union demanded a five-fold increase in salary, a monthly conveyance allowance of ₹ 10,000, a

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laundry allowance of 3,000, a corporate gift with every new car launch, and a house for every worker who wants one or cheaper home loans for those who want to build their own house. In addition to this compensation and normal weekend/holidays, the union demanded the current four paid weeks of vacation be increased to 7 weeks, plus each worker to have 40 days of sick leave and casual leave amounting to 75 days. There were some reports claiming that the wage dispute, as per a union spokesperson, may be caste-related. According to the Maruti Suzuki Workers Union, a supervisor had abused and made deriding comments on a low-caste worker. These claims have been denied by Maruti Udyog management and the police. The supervisor alleged to have made those comments was found to belong to a tribal heritage and outside the Hindu caste system; further, the numerous workers involved in violence were not affiliated with that caste either. Maruti said that the dispute was not over wage discussions, but after the workers' union demanded the reinstatement of a worker who had been suspended for physical violence on a supervisor. The workers claim harsh working conditions and extensive hiring of low-paid contract workers who are paid about US \$130 a month, which works out to half the minimum wage paid to permanent employees. Maruti Udyog employees currently earn allowances in addition to their base wage. Company executives denied harsh conditions and claim they hired entry-level workers on contracts and made them permanent as they gained experience. It was also claimed that bouncers were employed by the company off and on.

India Today, the weekly magazine claimed that its interviews of witnesses present at the plant confirms the dispute was over the suspended worker as mentioned earlier. The management insisted that they must wait for completion of inquiry which was underway before they can take any action on the employee suspended for manhandling his supervisor. Thereafter, the workers broke up into groups, went on to set the shop floor as well as all offices on fire. They hunted down management officials and proceeded on with methodically injuring officials at the factory site with iron rods and heavy tools.

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The local police, in its First Information Report (FIR), claimed on 21 July that Manesar violence may be the result of a carefully planned violence by a section of workers and union leaders. The report claimed the worker's action has been recorded on close circuit cameras installed within the company premises. The workers took several managers and high ranked management officials as hostages. The responsible Special Investigative Team (SIT) official claimed, "some union leaders may be aware of the facts, so they burnt down the main servers and more than 700 computers." The recorded CCTV footage has been used to determine the sequence of events and people involved. As per the FIR, police have arrested 90 people and are searching for 62 more. Maruti Suzuki management, in its official statement on the unrest, announced that all work at the Manesar plant has been suspended indefinitely. A Suzuki spokesman said Manesar violence won't affect the auto maker's business plans in India. The shut down of Manesar plant is leading to a loss of about Rs 75 crore per day. On July 21, 2012, citing safety concerns, the company announced a lock-out under The Industrial Disputes Act, 1947 pending results of an inquiry which the company has requested by the Haryana government to determine the causes of these heinous incidents. Under the provisions of The Industrial Disputes Act on wages, the report claimed, employees are expected to be paid for the duration of the lockout. On July 26, 2012, Maruti Udyog announced that employees would not be paid for the period of lock-out in accordance with labour laws of India. The company further announced that it will stop using contract workers by March 2013. The report claimed the salary difference between contract workers and permanent workers has been much smaller than initial media reports - the contract worker at Maruti received about 11,500 per month, while a permanent worker received about 12,500 a month at start, which increased in three years to 21,000-22,000 per month.

Shinzo Nakanishi, Managing Director and Chief Executive of Maruti Suzuki India, said this kind of violence has never happened in Suzuki Motor Corp's entire global operations spread across Hungary,

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Indonesia, Spain, Pakistan, Thailand, Malaysia, China and the Philippines. Mr. Nakanishi went to each victim apologising for the miseries inflicted on them by fellow workers, and in press interview requested the central and Haryana state governments to help stop such ghastly violence by legislating decisive rules to restore corporate confidence amid emergence of this new 'militant workforce' in Indian factories. He announced, "we are going to de-recognise Maruti Suzuki Workers' Union and dismiss all workers named in connection with the incident. We will not compromise at all in such instances of barbaric, unprovoked violence." He also announced Maruti plans to continue manufacturing in Manesar, that Gujarat was an expansion opportunity and not an alternative to Manesar.

Labour disputes are endemic in the auto industry of India and have affected other manufacturers. India has strict labour laws, but their application is routinely avoided by hiring low-wage contract workers. Manesar violence adds to India's recent incidents of labour disputes turning to violence. Analysts claim recent incidents like Manesar violence suggest a need for urgent reform of archaic Indian labour laws, the rigid rules on hiring and layoffs, which harm the formal sector and discourage investment in India. Government mandated procedures for labour dispute resolution are currently very slow, with tens of thousands of cases pending for years. The government of India is being asked to recognise that incidents such as Manesar violence indicate a structural sickness which must be solved universally.

The company dismissed roughly 500 workers accused of causing the violence and re-opened the plant on August 21, saying it would produce 150 vehicles on the first day, that is, less than 10% of its capacity. Analysts said that the shutdown was costing the company 1 billion rupees (\$18 million) a day and costing the company in terms of market share and market cap.

A week earlier, company officials had announced that Maruti would scrap the practice of hiring contract workers and that the workers currently on temporary contracts would be made permanent. It would

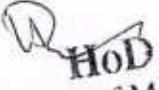
begin the process of hiring new workers on a permanent basis from September 2, 2012.

Demographic History of Manesar, Haryana as a Source of Labour

Haryana is one of the wealthiest states of India and has the third highest per capita income in the country at Rs. 67,891 including the largest number of rural crorepati in India. Haryana is also one of the economically developed regions in South Asia and its agricultural and manufacturing industry has experienced sustained growth since 1970s. Haryana as a state, is India's largest manufacturer of passenger cars, two-wheelers, and tractors. Since 2000, the state has emerged as the largest recipient of investment per capita in India. The city of Gurgaon has rapidly emerged as a major hub for the information technology and automobile industries. Gurgaon is home to Maruti Udyog and Hero MotoCorp Limited, the world's largest manufacturer of two-wheelers. Yamuna Nagar, Panipat, Panchkula and Faridabad are also industrial hubs, with the Panipat Refinery being the second largest refinery in South Asia. There are also long established steel, plywood, paper and textile industries in the state.

Manesar is a fast growing industrial town in Gurgaon district of the State of Haryana in India, and is a part of the National Capital Region (NCR) of Delhi. It has transformed from a sleepy village to one of the fastest growing townships in India. It is an upcoming area of NCR. More than 100,000 people go to work in Manesar from adjoining places. The Gurgaon-Manesar Master Plan projects the population of 37,00,000 by 2021. It has many factories, offices, hotels and educational institutes. Overlapping with Gurgaon, Manesar is 32 km from IGI Airport and has some of the best urban infrastructure in northern India. Located on NH 8, the area is well connected. Original Manesar village was a sleepy village of about 1000 dwellings on Delhi Jaipur highway (NH-8), but since late nineties it has been transformed into a boom town with some of the world-brands opening factories here. Its growth has been helped by government's drive to move out factories from Delhi as well as booming of Gurgaon city (15 minutes away) and proximity to


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Delhi's Indira Gandhi International Airport (approximately 40 minutes). The original Manesar village had people from different communities but 80% of the residents are Yaduvanshi Ahirs also called Yadav and their main profession was agriculture. However, today it is swamped by people from all across the globe, indulging in almost every profession one can think of in the modern India. Psychologically the situation is paradoxical, on the one hand, a percentage of locals have become rich by partly selling their ancestral land and on the other hand, a large percentage of migrants from other places have become rich after arriving at Manesar-Gurgaon belt causing wariness and a feeling of hostility among the original locals of the region who have missed the bus.

People of Manesar and Surrounding Areas: The Social Fabric

The dominant castes of Ahirs and Jats have now become a minority in this area due to the ingress of people from other parts of the country and even other countries like Nepal, Bangladesh and returnees from the Middle East.

By nature, both Ahirs and Jats are socially active, communally sensitive and highly caste conscious. It is common to see sibling rivalries, murder of sons by fathers, fathers by sons, between brothers, neighbours etc mainly due to property disputes. A highly contentious sub-caste structure, violence against elopements and unrest against inter caste matches and marriages and rivalry between villages are also common. Village sarpanchs, home grown political leaders often control the opinions of people and they can influence the outcome of labour union elections and dominance in specific factory labour hierarchy. There is a systematic drive among the village khap to subjugate women, prevent connections between men and women of different castes.

Incidentally, this area has a high concentration of people who are retired Army soldiers and junior commissioned officers. One of the major causes of social disturbances in the area is the sudden riches gained by the land owners who sold part of their land to the incoming

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industries. The region boasts of at least one male member from a family in the Armed Forces and these soldiers who retire are normally not docile, they fight for their rights and do so by involving themselves with local politicians.

It was evident from the beginning that the core reason for labour unrest at Maruti is the difference in pay, allowances and assets among the workers. On the one hand, a permanent worker draws over three times the salary of a contract worker and also enjoys several facilities like medical, insurance and retirement benefits. On the other hand, the future of a contract worker always hangs in balance because of the impending day on which he will be confirmed as a permanent employee or thrown out of work for whatever reason. The problem always starts at their homes, once a worker thinks that it is safe enough to marry and start a family from the financial point of view, he rents a house near the factory, starts living with his wife and in over 5-7 years they will have two or three children. Given the background, the wife will not be working and there the problem starts. The permanent workers' children go to a different school, they wear costly clothes and some of them own cars, bikes and own homes where as a contract worker has to live under the shadow of the uncertainty of his future employment.

A local Haryanvi Manesar worker now is a wary, caste sensitive, politically aware, physically fit, communally active person who is unhappy because of the waning dominance of local people in the area. To put it plainly, the local populace, especially the working class is not new to violence and disturbance.

There is also an element of trust deficit among both the contracted and regular workers towards the senior HR executives. Most of what they are privy to may be hearsay but the damage done by rumour mongering and vested interests taking advantage of the unstable situation is already known. Across India, political parties always vie to gain control of local labour unions and Maruti is no exception. Due to the importance given by the NCR Delhi government, Maruti Suzuki till date has enjoyed the benevolent gestures of the Central Govt in


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successfully preventing local politicians from disturbing peace at Maruti Udyog, Manesar. However, when there is sympathy in the environment towards those who are unhappy for whatever reason, a little spark is enough to trigger a major uprising.

Maruti Udyog: It's Future as the Automobile Market Leader in India

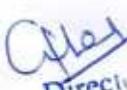
Specifically in this case study this topic will not be dealt in depth because Maruti has come a long way for the last thirty years and most of their business practices in all their locations have been exemplary and lasting. Presently having 44% of car market share in India and nearly the same percentage in the export of cars, every problem faced in the three decades by the company seems to be a blip in its long time existence.

There were times when experts commented that the dominance of Maruti Suzuki in car market is over etc but the company every time takes a new rabbit out of the bag to surprise and dominate again in a short time. Major competitors to Maruti Udyog have been Hyundai with its Santro, Tata with its Indica share the second and third positions respectively. All others put together still form a small percentage of the market share. Launch of Maruti Ertiga Diesel in Jun 2012 was a mile stone in the India because no one had ever thought of an Indian car company competing with Toyota Innova MUV. The consolidation achieved by Innova in the last five years have been phenomenal and Ertiga has already gained ground in this segment of MUVs within the last three months. Other competitors like Mahindra with their Xylo and Tata Safari and Aria stand in the path of Ertiga gaining lead.

That is, from the business perspective, the management as well as the labour force have the assurance and confidence that Maruti Udyog as an employer is a safe bet and has a long future.

Japanese Work Environment and Work Culture

Japanese work environment is based on a "simultaneous recruiting of new graduates" (*Shinsotsu-Ikkatsu-Saiyō*) and "lifetime-employment" (*Syushin-Koyō*) model used by large companies as well


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as a reputation of long work-hours and strong devotion to one's company. This environment is said to reflect economic conditions beginning in the 1920s, when major corporations competing in the international marketplace began to accrue the same prestige that had traditionally been ascribed to the daimyo-retainer relationship of feudal Japan or government service in the Meiji Restoration. At the very top, the most prestigious companies would recruit and retain the best workers by offering better benefits and truly lifetime job security. By the 1960s, employment at a large prestigious company had become the goal of children of the new middle class, the pursuit of which required mobilization of family resources and great individual perseverance in order to achieve success in the fiercely competitive education system.

Employees are expected to work hard and demonstrate loyalty to the firm, in exchange for some degree of job security and benefits, such as housing subsidies, good insurance, the use of recreation facilities, and bonuses and pensions. Wages begin low, but seniority is rewarded, with promotions based on a combination of seniority and ability. Leadership is not based on assertiveness or quick decision making but on the ability to create consensus, taking into account the needs of subordinates. Surveys indicate continued preference for bosses who are demanding but show concern for workers' private lives over less-demanding bosses interested only in performance on the job. This system rewards behavior demonstrating identification with the team effort, indicated by singing the company song, not taking all of one's vacation days, and sharing credit for accomplishments with the work group. Pride in one's work is expressed through competition with other parallel sections in the company and between one's company and other companies in similar lines of business. Thus, individuals are motivated to maintain *wa* (harmony) and participate in group activities, not only on the job but also in after-hours socializing (*nomikai*). The image of group loyalty, however, may be more a matter of ideology than practice, especially for people who do not make it to the top.

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Irrespective of what is said above, there is a simmering discontent among the senior executives at Maruti Udyog that the decision making portfolios have been gradually been taken over by the native Japanese executives once Suzuki gained majority stake in the last fifteen years. The initial tussle between the Indian Government and Suzuki before 1997 was about the senior most positions and now with absolute power to hire and fire, the second rung of senior decision makers have been gradually changed with a bias towards Japanese executives. It is a known tactic in the corporate corridors to apparently retain the job titles and offices undisturbed but remove the responsibilities one by one and vest it with another position. This has been done both overtly and covertly over the last twelve years. Several senior executives have bid farewell to Maruti Udyog due to this reason.

As to the Manesar workers adjusting to the Japanese work culture, there is absolutely no issue in this regard and the workers are proud to be part of the culture. They have embraced the new found methods of working hard, gaining respect on the work floor and enjoying the fruits of their labour with the praise by the media received year on year about the market share, product quality and the value given to after sales service. In fact it has greatly influenced their life style at home and the quality of product and the awards won by the company in India are evidence to the fact that the average Maruti Udyog worker's sense of belongingness to his employer is unquestionable.

Possible Causes of the 2012 Labour Unrest at Maruti Udyog Manesar Plant

Several factors have come into play in this labour unrest. Listing few of them based on the facts mentioned above gives a clear perspective .

1. Wage disparities between the regular and contracted workers.
Uncertainty in the minds of the contracted workers regarding their future as employees of Maruti Suzuki.
2. Lack of trust between the HR staff and the workers. The workers perception of HR executives is a major cause for concern. They


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take it for granted that the HR executives are there to make sure that the demands of workers whatever it is not met at the end. That is, they picture a HR executive being an agent of the management and not as a well wisher of the employees in general. This clearly points to a long term discontent which has surfaced now in the most violent way.

3. Lack of connectivity and active communication between the management and workers. As explained above, the Japanese industrial culture does not have any alternative in the lines of what took place at Manesar. The management was clue less about the extent to which a section of workers were enraged. That means, there was no inkling of such a degree of discontent with the management.
4. Lack of intelligence and information. Though the management was aware of those ring leaders and instigators, it did not have any concrete and actionable information about the intentions of the striking workers to kill and burn. It is evident that the action of breaking an executives limbs and leaving him to burn to death was a murder and it certainly was not an accident. Normally, such crimes are planned and within the group of several workers with criminal intentions, such plans are discussed. The management did not have any mechanism to collect informal information through its network of informants.
5. Possible collusion of local police, retrenched workers and politicians. The management did express their suspicions regarding the nature activities involving local politicians and police but it was without any substantiation. Hence, the doubts were laid to rest. However, it is not ruled out that local politicians and retrenched workers who lost their Maruti job in the last few years colluded with the local police to create a charged atmosphere.
6. Workers, both permanent and contracted feel that they are not being given their due share of the huge profits Maruti Udyog is making with the highest market share in the car industry. Though

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the automobile industry in India is said to be in a temporary recession, the car industry is seeing an unprecedented growth in the last few years and for over 28 years, Maruti has been the market leader. The profits and balance sheets are in public domain. An educated and aware worker is also aware that his salary and allowances have not risen in proportion to the rise in profits of the company. They have been expressing this feeling for several years and there have been salary rises but never in the kind of scale and proportion which the workers were demanding. On the day of starting the strike, average Maruti Udyog, Manesar worker was still one of the best paid automotive factory worker in India, but not paid in proportion to what the management was earning through them.

Implications of the 2012 Labour Unrest at Maruti Udyog, Manesar

The obvious implications of this unrest are enormous. Not only did this unrest open a new grim chapter in the history of industrial relations in India but it also gave the indications as to what prospective entrants from among the MNCs will do in this scene. Foreign Direct Investment in India have come mainly in the area of IT, Telecom, ITES, Services and Automobile sectors. The long time players among the MNCs will change their strategy due to these incidents occurring at the home of Indian Government. Few of the implications of this labour unrest are as under:-

1. Investors in labour intensive sectors will demand a protective and clear policy environment from the Indian Government before entering into India.
2. Given the state of Indian labour laws which are highly biased towards the workers, there will be pressure on the Government to modify and tweak the laws in accordance with the need of these times. Labour unions in the manufacturing sector have always been politically oriented and wherever the political orientation is absent, the political leaders and parties fight with

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- each other to gain dominance or create a strong hold. Since it is not against the law for workers to affiliate themselves to political parties, creation of multiple unions, resulting clashes and internecine rivalry become the norm.
- 3. There is no place for physical violence and criminal act anywhere in running an industry. Assurance of exemplary punishments will be sought by the management for the workers caught in the act. In effect this will increase the distance between the management and the labour unions even further.
- 4. State Governments have played a major role in creating a conducive environment in the states of Gujarat, Tamilnadu, Karnataka, Maharashtra, Andhra Pradesh, Rajasthan and Goa in addition to several union territories. There will be a move to shift bases or start new ventures in those states where there is no history of labour unrest in the past. Already, mutual interest has been expressed by Maruti management and the Gujarat Government in this direction.

It is a major lesson for HR executives in general and the benefits will go a long way in investigating the role of each worker or person involved in these incidents. This murder not being the first one in the last 2-3 years, there is an urgent need to introspect and bring about a change in the theory oriented study which the HR executives are prone to follow. It is a known fact that in this electronic era of mobiles, computers and internet, the easiest path for an executive irrespective of his domain, is to remain aloof from the smelly, sweaty and rough shop floor level environment. This kind of shell always results in that shell being broken violently by the frustrated workers. In the Armed Forces, officers always remain close to their subordinates under command by being with them all the time during training, operations and during professional, personal difficulties. That is the very reason why the soldiers are always ready to lay down their life at the word of their superior. Workers no longer consider their superiors as role models in the manufacturing sector, the relationship remains one

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of profession oriented which crumbles at the first spark of mistrust. The bonhomie, friendship etc end at the gate of the factory and the entire role playing begins inside the factory gates next morning. Among the executives and workers, the 'us and them' attitude starts from the beginning of their service. The contempt grows and at a crucial moment explodes shattering the entire set up.

5. Salaries being more than twice in the IT/ITES sector among the executives for the same level of qualifications and service, manufacturing sector suffers from non involvement of the executives in the leadership role. There is already an aversion among the engineering graduates to avoid joining manufacturing sector and this incident has contributed immensely for this feeling. No executive wants to get into the rut of industrial disputes, labour unions, dispute resolution, pay roll arbitration and all such activities normally related to manufacturing sector. Even in future, the exodus of the engineering graduates towards 'clean' sectors like IT/ITES, Telecom etc will continue.

Conclusion

The entire episode presents a strong case for HR executives to increase their involvement at the floor level with the workers in addition pursuing their professional education and career development. As part of the initial training for the junior manager while joining service, it is important to make it a part of study the nature of an average worker, their social structure, the previous history of union activities, the study of resolutions and decisions taken and the comparison of the facilities given to the worker vis a vis the workers of the competitors.

The present peace at Maruti Udyog, Manesar is a brokered peace between the Haryana Govt and the Maruti management. This certainly is not going to be a permanent solution. As mentioned earlier, an average Haryanvi worker is a hard fighter and it is pointless for the

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management to encourage, develop and nurture an anti labour stance among their executives.

Communication of intention at all levels plays an important role in reducing trust deficit. Rather than the unions coming to know about their company's expansion plans through rumours, news paper or the Television, it is in the interest of the company that the management takes the union into confidence about their establishing new facilities in Gujarat or elsewhere. This will go a long way in building confidence among the workers about the honesty and forthrightness of the management.

References

- The Hindu- Survey of Indian Industry 2011 edition.
- Annual report of Maruti Udyog Limited- Jun 2012 for FY 2011-12.
- Economic Times, 20 Jul 2012, " Stand off at Manesar plant may hit investment" by Pankaj Doval.
- Economic Times, 22 Jul 2012, " Four Reasons behind MUL- Manesar Problems" by Malini Goyal.
- Economic Times, 29 Aug 2012, " Maruti Suzuki share holders chide management of poor handling of labour unrest" by Chanchal Pal Chauhan.
- The Hindu, 21 Jul 2012, " Violence at Maruti symptomatic of simmering worker discontent" by Aman Sethi.
- The Wall Street Journal, 01 Sep 2012, " Maruti Suzuki sales hit by labour unrest, others gain" by Anirban Chaudury.
- The Hindu Business Line, 07 Nov 2012, " Maruti Suzuki Continues to Walk the labour tight rope" by Roudra Bhattacharya.
- Business Standard, 15 Sep 2011, "

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MINI-CASE ARCO Chemical Develops a Worldwide Strategy

In the 1980s, ARCO Chemical shed its less successful product lines. At one point, revenue shrank from \$3.5 billion annually to \$1.5 billion. But by stripping down to its most competitive lines of business, ARCO could better respond to the global political and economic events constantly buffeting it. Around the world, it now can take advantage of its technological edge within its narrow niche- mostly intermediate chemicals and fuel additives. This strategy paid off. By 1992, more than 40% of ARCO's \$3 billion sales were made in abroad, and it now makes about half of its new investment outside the United States. It also claims half the global markets for the chemicals it sells.

ARCO Chemical went global because it had to. The company's engineering resins are sold to the auto industry. In the past that meant selling exclusively to Detroit's Big Three in the U.S. market. Today ARCO Chemical sells to Nissan, Toyota, Honda, Peugeot, Renault and Volkswagen in Japan, the United States and Europe. It also deals with Ford, and General Motors in the United States and Europe. ARCO must be able to deliver a product anywhere in the world or lose the business.

Global operations also have meant, however, that ARCO Chemical faces increasingly stiff competition in abroad in addition to its traditional U.S. competitors such as Dow Chemical. European companies have expanded operations in America, and Japanese competitors also began to attack ARCO Chemical's business lines. In 1990, Japan's Asahi Glass began a fierce price cutting campaign in both Asia and Europe on products for which ARCO Chemical is strong.

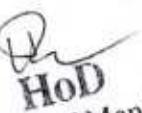
In response, ARCO set up production facilities around the world and entered into joint ventures and strategic alliances. It counterattacked Asahi Glass by trying to steal Asahi's biggest customer in Japan. ARCO's joint venture partner, Sumitomo Chemical supplied competitive intelligence, and its knowledge of the Japanese market was instrumental in launching the counterattack.

In July 1998, ARCO Chemical was acquired by Lyondell Petrochemical. This acquisition was driven by Lyondell's desire to expand into high growth global markets for ARCO's products as well as the opportunity to gain significant integration benefits with Equistar Chemicals, LP, a joint venture among Lyondell, Millennium Chemicals, and Occidental Petroleum Corporation. According to Lyondell's 1998 Annual Report:

ARCO Chemical was a perfect fit with Lyondell's core businesses. Among the benefits: substantial integration for propylene and other raw materials provided by Equistar and Lyondell; a global infrastructure providing a platform for future growth; and leading positions in high growth markets for chemicals and synthetics. The acquisition provides us with a business that has less cyclical earnings and cash flows.

Consolidation is a positive trend that will continue to enhance the efficiency of the industry by allowing companies to spread overhead, distribution and research and development costs over a


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larger asset base. It will result in increased globalization and competition, which benefits both customers and investors. Lyondell will continue to be a leader in driving these changes. The acquired business provides significant strategic benefits to Lyondell, including:

- A preeminent, global market position in propylene oxide and derivatives, driven by an advantaged technology position.
- Vertical integration with propylene, ethylene, and benzene produced by Equistar as well as integration with methanol produced by Lyondell.
- Reduced cyclicity of Lyondell's earnings through a broadened product mix in markets that are less cyclical than olefins and polymers.
- A platform for future domestic and international growth with a worldwide infrastructure of manufacturing facilities and service centers.

Questions:

1. What was ARCO Chemical's rationale for globalizing?
2. What advantages has ARCO Chemical realized from its global operations?
3. What threats have arisen from ARCO Chemical's globalizing efforts? What are some ways in which ARCO Chemical have responded to these threats?
4. How has globalization affected, and been affected by industry consolidation?

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CASE STUDY

CASE 1- Economic consequences are extremely essential for the sake of an economy, as it is the only thing through which the power of economics of a country will get appreciation and upper hand in the market (Angermuller, Maingueneau & Wodak, 2014). Escalating stock market recognition, increasing economic power, Gross Domestic Product and Per Capita Income are some of the important aspects that found interactive and effective in the entire field of economics and management (Angermuller, Maingueneau & Wodak, 2014).

In terms of significance, the subject of economics has its diversification in different themes that will be considered accordingly in the picture. The entire field of economics has been bifurcated into two different types known as Microeconomics and Macroeconomics (Angermuller, Maingueneau & Wodak, 2014). As cleared by the names micro and macro economics are the type of economics that usually associated with the economics of the individuals and the country as a whole. Both of the types of economics are essential for the sake of an economy, and it is equally beneficial for the assigning of the things in particular (Mosler, 2010).

Economies largely relies on their economic consequences, as they know that it will be there bread and butter for the future, and the stance of economic consequences should have been taken into account considerably (Mosler, 2010). Every economy of the world

is now focusing to enhance their economic function and prosperity with a given time frame. In this particular analysis, it will be requiring to analyze one of the given articles related to the macroeconomic or microeconomic function, along with their core understanding (Mosler, 2010).

Q1- Explain the demand and supply implication on the above case.

Q2- Discuss the market structure of the above case.

Q3- Explain the conclusion of the above case.

CASE 2- There are three main justifications for imposing a tax on a specific good. Firstly, it raises money for the government. Secondly; its use inflicts costs on third parties that are not factored into its price. The third rationale for imposing sin taxes is to discourage the use of undesirable goods. Critics of such taxes have argued that they are ineffective because the goods they target tend to be addictive, making consumers relatively unresponsive to changes in price. In fact, study after study has shown that sin taxes do tend to reduce consumption.

Without intervention from the government, the economy will produce too many goods that foul up the atmosphere and that benefits both manufacturers and consumers but harms everyone who breathes in the by-products. Proponents of so-called "sin taxes" apply this logic to goods deemed to be socially undesirable. Many studies

have a tendency to overstate the magnitude of such externalities since they present gross costs instead of net ones.

Q1) Intermediate consumption refers to the use of _____ (durable/intermediate) goods in the production process. (Choose the correct alternative)

Q2) Goods purchased for the satisfaction of wants are _____. (Choose the correct alternative)

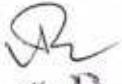
1. Capital goods
2. Final goods
3. Consumption goods
4. None of these

Q3) 'Pollution created by factories/vehicles' is an example of _____ (positive/negative) externality. (Choose the correct alternative)

Q4) Total addition of capital goods to the existing stock of capital during the given year is known as
_____ (Choose the correct alternative)

1. Depreciation
2. Gross costs
3. Gross investment
4. Net investment


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1. Case: Salomon v A Salomon and Co Ltd [1897] AC 22

Concept: Corporate separate personality

Facts:

Salomon conducted his business as a sole trader. He sold it to a company incorporated for the purpose called A Salomon and Co Ltd. The only members were Mr Salomon, his wife, and their five children. Each member took one £1 share each. The company bought the business for £39,000. Mr Salomon subscribed for 20,000 further shares. However, £10,000 was not paid by the company, which instead issued Salomon with series of debentures and gave him a floating charge on its assets. When the company failed the company's liquidator contended that the floating charge should not be honoured, and Salomon should be made responsible for the company's debts.

Judgement / Decision:

Lord Halsbury LC stated (at 30-31):

"... it seems to me impossible to dispute that once the company is legally incorporated it must be treated like any other independent person with its rights and liabilities appropriate to itself, and that the motives of those who took part in the promotion of the company are absolutely irrelevant in discussing what those rights and liabilities are."

From this case comes the fundamental concept that a company has a legal personality or identity separate from its members. A company is thus a legal 'person'.

2. Case: Macaura v Northern Assurance Co Ltd [1925] AC 619

Concept: Separate Property

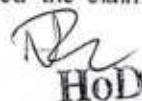
Members have no interest in a company's property

Facts:

M owned real estate on which stood timber. M sold the real estate as well as the timber to a company M formed and received as consideration every one of the wholly paid shares. The company carried the business of felling and milling timber. A fire destroyed all timber which had been felled. Macaura had earlier insured the timber against loss of by fire in his own name. He had not transferred the insurance policy to the company. The question of law was whether M had an insurable interest in the timber, further did M have an equitable or legal interest in timber thereby allowing M an insurable interest. It was held by the House of Lords that shareholders have no legal or equitable interest in their company's property. Furthermore the insurers did not have to pay out as M and the company were two separate legal entities and the insurance policy was not held in the correct legal name as M did not personally own the timber, M did hold the requisite insurable interest.

The owner of a timber estate sold all the timber to a company which was owned almost solely by him. He was the company's largest creditor. He insured the timber against fire, but in his own name. After the timber was destroyed by fire the insurance company refused the claim.


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The House of Lords held that in order to have an insurable interest in property a person must have a legal or equitable interest in that property. The claim failed as "the corporator even if he holds all the shares is not the corporation... neither he nor any creditor of the company has any property legal or equitable in the assets of the corporation." (per Lord Wrenbury, at pg 633).

Decision: Members have no interest in a company's property. Neither owner nor any creditor of the company has any property legal or equitable in the assets of the corporation."

3. Case: Daimler Co Ltd v Continental Tyre & Rubber

Concept: Lifting of corporate veil, Determination of real character

Facts:

In , the company Continental Tyre & Rubber was incorporated in England however all the shareholders and directors except one were German Nationals. In 1914 there was an outbreak of war between the two nations. Continental Tyre & Rubber sued Daimler Co Ltd for an unpaid debt. The argument of Daimler Co Ltd was that Continental Tyre & Rubber was an alien enemy and that it was illegal to trade with an enemy, and further wanted to avoid funds going towards the Germans war effort. The court had to consider whether they would lift the corporate veil and inquire as to the nationality of the shareholders and consider the ownership of the company.

Judgement/Decision:

It was held by the court as a matter of national emergency that the corporate veil could be lifted, and was. Daimler Co Ltd did not have to pay Continental Tyre & Rubber the dept due.

4. Case: Gilford Motor Co Ltd v Horne

Concept: Lifting of corporate veil, Fraud and misconduct.

Facts:

In the case of Gilford Motor Co Ltd v Horne , the court found that the veil of incorporation may be lifted in instances where there is evidence of fraud. The brief facts of this case are that Gilford employed Horne as a managing director for a six year term. Horne's employment contract contained a restraint of trade clause where he agreed if he terminated his employment he would not solicit customers away from Gilford. Horne did leave Gilford and set up a rival business in which enticed customers away from Gilford. Gilford sued Horne to enforce the restraint of trade clause, however Horne argued on the grounds of separate legal entity that it was the company that enticed the customers away not Horne personally. The Court of Appeal allowed the enforcement of the clause in contract against the company. They did this because Horne had used the company as a "mere cloak or sham" , the court lifted the


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corporate veil and allowed liability to be imposed on the reasons of fraud, Horne used a separate legal personality to carry out an action that was personally prohibited for him to do.

As the case of Gilford has demonstrated the court will disregard corporate personality if it is used as a sham or façade to avoid personal contractual obligations, however this fraud must be clear. Paterson J did pierce the corporate veil in this final demonstration on when the courts will lift the veil. In *Official Assignee v Insoll Avenue Limited* Paterson J held that it was appropriate to pierce the corporate veil because of special circumstances indicating that it was a façade concealing the true facts. As well as the company formed had not been genuinely and honestly used. He measured he was able to put the company structure to one side on the basis, that the company was a façade and a sham, and that the corporate veil could be lifted.

The following cases demonstrate when a court will not put the company structure aside and pierce the corporate veil.

"unsatisfactory as to warrant some departure from the normal rule. In a contractual context when it is sought to lift the corporate veil against a situationswhere there is some element of fraud or sharp practice in that party's conduct or where it would otherwise be unconscionable if strict adherence to the principle of separate corporate entity were maintained."

5. Case : Mrs Lee Vs. Lee's Air farming Company

Concept : Separate legal entity

Facts:

Catherine Lee's husband Geoffrey Lee formed the company through Christchurch accountants, which worked in Canterbury, New Zealand. It spread fertilisers on farmland from the air, known as top dressing. Mr Lee held 2999 of 3000 shares, was the sole director and employed as the chief pilot. He was killed in a plane crash. Mrs Lee wished to claim damages of 2,430 pounds under the *Workers' Compensation Act 1922* for the death of her husband, and he needed to be a 'worker', or 'any person who has entered into or works under a contract of service... with an employer... whether remunerated by wages, salary or otherwise.' The company was insured (as required) for worker compensation.

The Court of Appeal of New Zealand said Lee could not be a worker when he was in effect also the employer. North J said "the two offices are clearly incompatible. There would exist no power of control and therefore the relationship of master-servant was not created."


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Advice

The Privy Council advised that Mrs Lee was entitled to compensation, since it was perfectly possible for Mr Lee to have a contract with the company he owned. The company was a separate legal person. Lord Morris of Borth-y-Gest said

It was never suggested (nor in their Lordships' view could it reasonably have been suggested) that the company was a sham or a mere simulacrum. It is well established that the mere fact that someone is a director of a company is no impediment to his entering into a contract to serve the company. If, then, it be accepted that the respondent company was a legal entity their Lordships see no reason to challenge the validity of any contractual obligations which were created between the company and the deceased...

It is said that the deceased could not both be under the duty of giving orders and also be under the duty of obeying them. But this approach does not give effect to the circumstance that it would be the company and not the deceased that would be giving the orders. Control would remain with the company whoever might be the agent of the company to exercise...

Decision:

There appears to be no great difficulty in holding that a man acting in one capacity can make a contract with himself in another capacity. The company and the deceased were separate legal entities.

6. Case: Ashbury Railway Carriage and Iron Company Ltd Vs. Riche

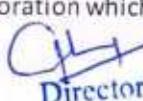
Facts:

Incorporated under the Companies Act 1862, the Ashbury Railway Carriage and Iron Company Ltd's memorandum, clause 3, said its objects were 'to make and sell, or lend on hire, railway-carriages...' and clause 4 said activities beyond needed a special resolution. But the company agreed to give Riche and his brother a loan to build a railway in Belgium. Later, the company refused the agreement. Riche sued, and the company pleaded the action was *ultra vires*

The judges of the exchequer chamber being equally divided, the decision of the court below was affirmed.

Blackburn J said,

"thought it was at common law an incident to a corporation that its capacity should be limited by the instrument creating it, I should agree that the capacity of a company incorporated under the act of 1862 was limited to the object in the memorandum of association. But if I am right in the opinion which I have already expressed, that the general power of contracting is an incident to a corporation which it requires an indication of


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intention in the legislature to take away, I see no such indication here. If the question was whether the legislature had conferred on a corporation, created under this act, capacity to enter into contracts beyond the provisions of the deed, there could be only one answer. The legislature did not confer such capacity. But if the question be, as I apprehend it is, whether the legislature have indicated an intention to take away the power of contracting which at common law would be incident to a body corporate, and not merely to limit the authority of the managing body and the majority of the shareholders to bind the minority, but also to prohibit and make illegal contracts made by the body corporate, in such a manner that they would be binding on the body if incorporated at common law, I think the answer should be the other way."

Decision/ Judgement :

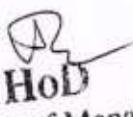
House of Lords

The House of Lords, agreeing with the three dissentient judges in the Exchequer Chamber, pronounced the effect of the Companies Act to be the opposite of that indicated by Mr Justice Blackburn. It held that if a company pursues objects beyond the scope of the memorandum of association, the company's actions are ultra vires. Lord Cairns LC said,

It was the intention of the legislature, not implied, but actually expressed, that the corporations, should not enter, having regard to this memorandum of association, into a contract of this description. The contract in my judgment could not have been ratified by the unanimous assent of the whole corporation.



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Nike and Sweatshop Labour

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Nike, a company headquartered in Beaverton, Oregon, is a major force in the sport footwear and fashion industry, with annual sales exceeding \$12 billion, more than half of which now come from outside the United States. The company was co-founded in 1964 by Phil Knight, a CPA at Price Waterhouse, and Bill Bowerman, college track coach, each investing \$500 to start. The company, initially called Blue Ribbon Sports, changed its name to Nike in 1971 and adopted the “Swoosh” logo – recognizable around the world- originally designed by a college student for \$35. Nike became highly successful in designing and marketing mass-appealing products such as the Air Jordan, the best selling athletic shoe of all time.

Nike has no production facilities in the United States. Rather, the company manufactures athletic shoes and garments in such Asian countries as China, Indonesia, and Vietnam using subcontractors, and sells the products in the U.S. and international markets. In each of those Asian countries where Nike has production facilities, the rates of unemployment and under-employment are quite high. The wage rate is very low in those countries by U.S. standards-the hourly wage rate in the manufacturing sector is less than \$1 in each of those countries, compared with about \$20 in the United States.

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In addition, workers in those countries often operate in poor and unhealthy environment and their rights are not particularly well protected. Understandably, host countries are eager to attract foreign investments like Nike's to develop their economies and raise the living standards of their citizens. Recently, however, Nike came under worldwide criticism for its practice of hiring workers for such a low rate of pay—"next to nothing" in the words of critics-and condoning poor working conditions in host countries.

Initially, Nike denied the sweatshop charges and lashed out at critics. But later, the company began monitoring the labour practices at its overseas factories and grading the factories in order to improve labour standards. Nike also agreed to random factory inspections by disinterested parties.

Discuss Points:

1. Do you think the criticism of Nike is fair, considering that the host countries are in dire needs of creating jobs?
2. What do you think Nike's executives might have done differently to prevent the sensitive charges of sweatshop labour in overseas factories?
3. Do firms need to consider the so-called corporate social responsibilities in making investment decisions?