

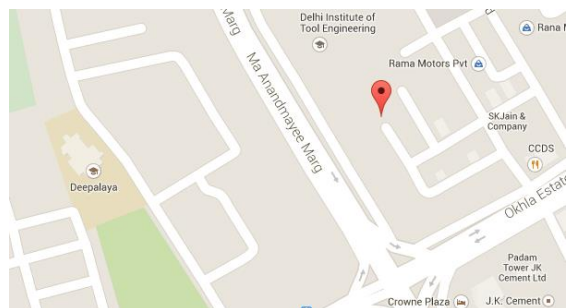
## MANDATORY DISCLOSURE

1. AICTE File No.	1-2016719245
Date & Period of last approval	04-06-2014, 2014-2015 for B.Tech.(TE), B.Tech.(MET), M.Tech(TE), Diploma(Tool and Die Making), Diploma(Mechanical Engineering) Courses
2. Name of the Institution	Delhi Institute of Tool Engineering
	<b>Campus –I</b>
	Wazirpur Industrial Area
City & Pin Code	Delhi ó 110 052
	State / UT Delhi
Phone number with STD code	011- 27373885,27006102,27006141
Fax number with STD code	011- 27377440
Nearest Railway Station (Distance in Km)	Old Delhi Railway Station, 9.4 km
Nearest Airport (Distance in Km)	IGI AirPort 21.3 km.
Longitude & Latitude	28.53, 77.27



## Campus -II

Address of the Institution	Maa Anandmayi Marg, Okhla Industrial Area, Phase-II
City & Pin Code	Delhi ó 110 020
State / UT	UT
Longitude & Latitude	28.53, 77.27
Phone number with STD code	011- 26388920, 29207325, 29207327
Fax number with STD code	011- 27377440
Nearest Railway Station (dist in Km)	Okhla Railway Station, 3.5km
Nearest Airport (dist in Km)	IGIAP 17.9 km.



Office hours at the Institution	8.30 A.M. to 5.00 P.M.
Academic hours at the Institution	8.30 A.M. to 5.00 P.M.
Email	dpdite@gmail.com
Website	<a href="http://dite.delhigovt.nic.in/index.asp">http://dite.delhigovt.nic.in/index.asp</a>

3. Type of Institution	Govt.
Category (1) of the Institution	Non Minority
Category (2) of the Institution	Co-Ed
4. Name of the organization running the Institution	Delhi Institute of Tool Engineering
Type of the organization	Delhi Government Society
Address of the organization	Wazirpur Industrial Area, Delhi ó 110 052
Registered with	Societies of Delhi Government registered under the societies Registration Act Regn. no S-7997
Registration date	28/11/2007
Website of the organization	<a href="http://dite.delhigovt.nic.in">http://dite.delhigovt.nic.in</a>
5. Name of the affiliating University (For Graduate and Post Graduate Courses)	Guru Gobind Singh Indraprastha University, Delhi
Address	Sec-16-C, Dwarka, Delhi ó 110 075
Website	<a href="http://www.ipu.ac.in">www.ipu.ac.in</a>
Name of the affiliating Board (For Diploma in Engineering Courses)	Board of Technical Education,GNCT of Delhi
Address	Muni Maya Ram Marg,PitamPura, Delhi ó 110 034

Website

[http://www.delhi.gov.in/wps/wcm/connect/doi\\_tt/Training+and+Technical+Education/Home/Board+of+Technical+Education](http://www.delhi.gov.in/wps/wcm/connect/doi_tt/Training+and+Technical+Education/Home/Board+of+Technical+Education)

Latest affiliation period	2015-2016
<b>6.</b> Name of the Director-cum-Principal	Professor Sagar Maji
Exact Designation Director	Director cum Principal
Phone number with STD code	011- 26388920/27372745
Fax number with STD code	011- 27377440
Email	dpdite@gmail.com
Highest Degree	Ph.D.
Field of specialization	Mechanical Engg.
<b>7.</b> Governing Board Members (Give details of the members with the educational qualification and other credentials) ó	
	<b>Annexure I</b>
Frequency of meetings & date of	Half Yearly
Last meeting	23 <sup>th</sup> Feb. 2015
<b>8.</b> Organizational Chart	<b>Annexure II</b>
<b>9.</b> Student feedback mechanism on Institutional Governance/faculty Performance	Yes, being done regularly
<b>10.</b> Grievance redressal mechanism for faculty, staff and students	Yes, being done regularly

11. Name of the Department  
Courses

At Campus -II  
B.Tech. Tool Engineering  
M-Tech Tool Engineering  
B-Tech. Mechatronics

Level

UG/PG

Courses	B-Tech(MET)	B-Tech.(TE)	MTech.(TE)
Level	2014-2015	2014-2015	2014-2015
Year wise Sanctioned Intake	60	60	18
Year wise Actual Admissions	70	64	8
Cut off marks - General quota (Rank)	4654	3976	19
% Students passed with Distinction	-	-	-
% Students passed with First Class	-	-	-
Students Placed	-	100%	100%
Average Pay package, Rs./Year lacs P.A	-	5.4	6
Students opted for Higher Studies	-	3	-

Accreditation Status of the course

Doctoral Courses

No

Foreign Collaborations, if any

No

Professional Society Memberships

International Zinc Association

Professional activities

Lectures and competitions

Consultancy activities

Yes

Grants fetched DST

Departmental Achievements

### Annexure III

At Campus - I

Diploma ó Tool & Die Making

Diploma ó Mechanical Engineering

Level

Diploma

Courses	Diploma(Tool & Die Making)	Diploma(Mechanical Engineering)
Level	2014-2015	2014-2015
Year wise Sanctioned Intake	60	60
Year wise Actual Admissions	71	67 (started from 2014)
Cut off marks - General quota (Rank)	6547	3912
% Students passed with Distinction	10	N/A (started from 2014)
% Students passed with First Class	28	N/A (started from 2014)
Students Placed	100 %	N/A (started from 2014)
Average Pay package, Rs./Year lacs P.A		N/A (started from 2014)
Students opted for Higher Studies	Nil	N/A (started from 2014)

Accreditation Status of the course

Yes (Diploma ó Tool & Die Making)[NBA Accredited]

Doctoral Courses

No

Foreign Collaborations, if any

No

Professional Society Memberships	No
Professional activities	Lectures and competitions
Consultancy activities	yes
Grants fetched DST	
Departmental Achievements	

**12. Name of Teaching Staff**

**Annexure IV(M Tech & B Tech)  
& IV-A (Diploma)**

Designation	-do-
Department	-do-
Date of Joining the Institution	-do-
Qualifications with Class/Grade	-do-
Experience in Years	-do-
Papers Published	Available at DITE website/Annexure III
PhD Guide? Give field & University	
PhDs / Projects Guided	PhDs Projects at Masters Level
Books Published / IPRs/ Patents	
Professional Memberships	
Consultancy Activities -	
Awards	
Grants fetched	
Interaction with Professional Institutions	

**13. Admission quota**

100 % through CET

Entrance test / admission criteria

CET being held by GGSIP University

Cut off / last candidate admitted

<b>Courses</b>	<b>2014-2015</b>
B-Tech(MET)	53356
B-Tech.(TE)	56065
MTech.(TE)	41

Fees in rupees

<b>Courses</b>	<b>2014-2015</b>
B-Tech(MET)	Rs. 60 000/-
B-Tech.(TE)	Rs. 60 000/-
M.Tech.(TE)	Rs. 85000/-

Admission Calendar

June-July of every year

Details of Course offered at Campus -II

Admission quota

100 % seat through CET

Entrance test / admission criteria

CET being held by BTE, Delhi



Cut off / last candidate admitted

<b>Courses</b>	<b>2014-2015</b>
Diploma( Tool & Die Making)	6547(general)
Diploma(Mechanical Engineering)	3910(general)

Fees in rupees

<b>Courses</b>	<b>2014-2015</b>
Diploma( Tool & Die Making)	24,000/-
Diploma(Mechanical Engineering)	24,000/-

Admission Calendar

June-July of every year

**14. Infrastructural information^**

Classroom/Tutorial Room facilities

a) At Campus - II

Class rooms = 11, Tut.Rooms = 2

Laboratory details

Annexure V- I

Computer Centre facilities Computer Centre

Yes

Library Facilities

Yes

Auditorium / Seminar Halls / Amphi

Yes 3 Conference/Seminar Hall,

Cafeteria Available Indoor Sports facilities T.T, Carom

Outdoor Sports facilities Badminton, Volleyball,

b) At Campus - I

Facilities for disabled	Ramp Available
Classroom/Tutorial Room facilities	Class rooms = 7, Tut.Rooms = 3
Laboratory details	Annexure V-II
Computer Centre facilities	Computer Centre Yes
Library Facilities	Yes
Auditorium / Seminar Halls / Am phi	Yes (2 Conference/Seminar Hall)
	Cafeteria Available
	Indoor Sports facilities Chess, Carom
	Outdoor Sports facilities Badminton, Volleyball,
Facilities for disabled	Ramp Available
<b>15. Boys Hostel</b>	No
Girls Hostel	No
Medical & other Facilities at Hostel	No
<b>16. Academic Sessions</b>	As per University/Board
Examination system, Year / Sem	Semester System
Period of declaration of results	By University/Board
<b>17. Counseling / Mentoring</b>	Yes
Career Counseling	being done by Training & Placement Deptt.
Medical facilities	Yes
Student Insurance	Yes (renewal under process)

<b>18. Students Activity Body</b>	Yes
Cultural activities	Yes
Sports activities	various sports and Athletics activities are being done
Literary activities	
Magazine / Newsletter	Monthly
Technical activities / TechFest	
Industrial Visits / Tours	1 to 2 per semester
Alumni activities	once a year

<b>19. Name of the Information Officer for</b>	
RTI	Sh A K Sehgal
Designation	Dy Manager
Phone number with STD code	9811526860, 011 - 27372618
FAX number with STD code	-
Email	ajay_trtc@yahoo.co.in

**GOVERNING COUNCIL**

**List of Members of the Governing Council and General body of the Society of DITE**

-----  
The Director,  
Directorate of Training & Technical Education,  
GNCT of Delhi,  
Muni Maya Ram Marg, Pitampura,  
Delhi 110 088

Chairman

-----  
The SecretarycumCommissioner (Labour)  
Govt. of NCT of Delhi,  
5, Sham Nath Marg,  
Delhi 110 054

Member

-----  
The Spl. Commissioner of Industries,  
Govt. of NCT of Delhi,  
Patparganj, Udyog Sadan,  
Delhi 110 092

Member

-----  
The Special/Additional Secretary (Finance),  
Department of Finance,  
Government of NCT of Delhi,  
Delhi Secretariat, I. P. Estate,  
New Delhi 110002.

Member

-----  
Member

The Secretary (IT),  
Department of Information & Technology,  
Govt. of NCT of Delhi,  
Delhi Secretariat, I. P. Estate,  
New Delhi 110002.

-----  
The Vice Chancellor,  
Delhi Technological University (DTU),  
Shahbad Daulatpur, Main Bawana Road,  
Delhi 110042.

Member

-----  
The Managing Director,  
Delhi State Industrial Infrastructure & Development  
Corporation Limited (DSIIDC)  
N 36, Bombay Life Building, Connaught Place,  
New Delhi 110001

Member

-----  
The Special/Additional Director,  
Department of Training & Technical Education,  
Govt. of NCT of Delhi  
Muni Maya Ram Marg, Pitam Pura,  
Delhi 110088

Member

-----  
Head (Delhi State)  
The Confederation of Indian Industry (CII)  
23, Institutional Area,  
Lodhi Road, New Delhi

Member

-----  
The Director-cum-Principal,  
Delhi Institute of Tool Engineering (DITE),  
Wazirpur Industrial Area, Delhi 110052.

Member

-----  
The Registrar,  
Guru Gobind Singh Indraprastha University (GGSIPU),  
Govt. of NCT of Delhi,  
Sector16 C, Dwarka, New Delhi 110078

Member

-----  
The Director (TRTCs) ,  
Office of the Development Commissioner (SSI), MSME,  
Government of India,  
Wing 7th Floor, Nirman Bhawan,  
New Delhi 110108

Member

-----  
Sh. Dinesh Mohaniya,  
Hon'ble MLA,  
Delhi Legislative Assembly,  
B14, Shiv Park, Khan Pur,  
Delhi

Member

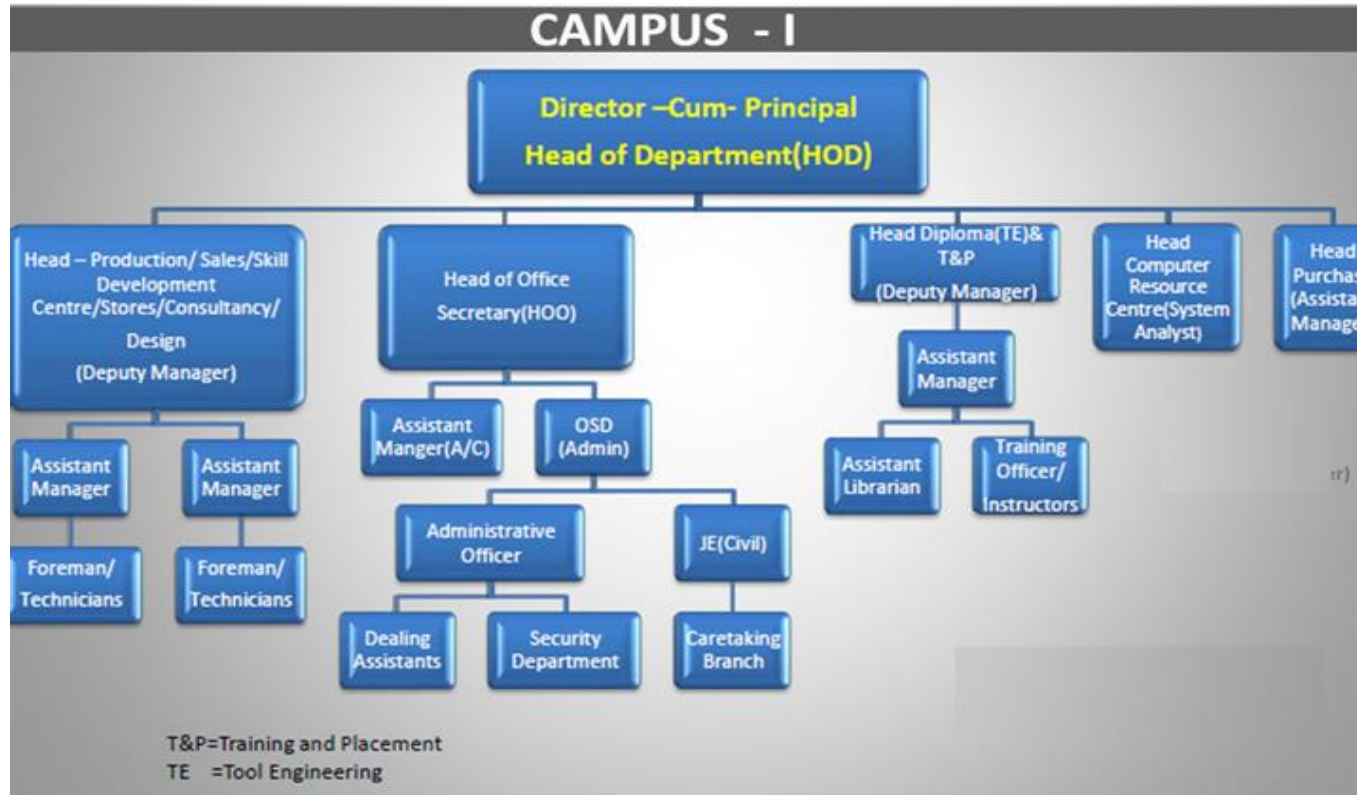
-----  
Shri Devesh Chhabra,  
Unit Head (Tooling Division)  
M/s. Sumi Mothersons,  
E4, Sector 59,  
NOIDA 201307(U.P)

Member

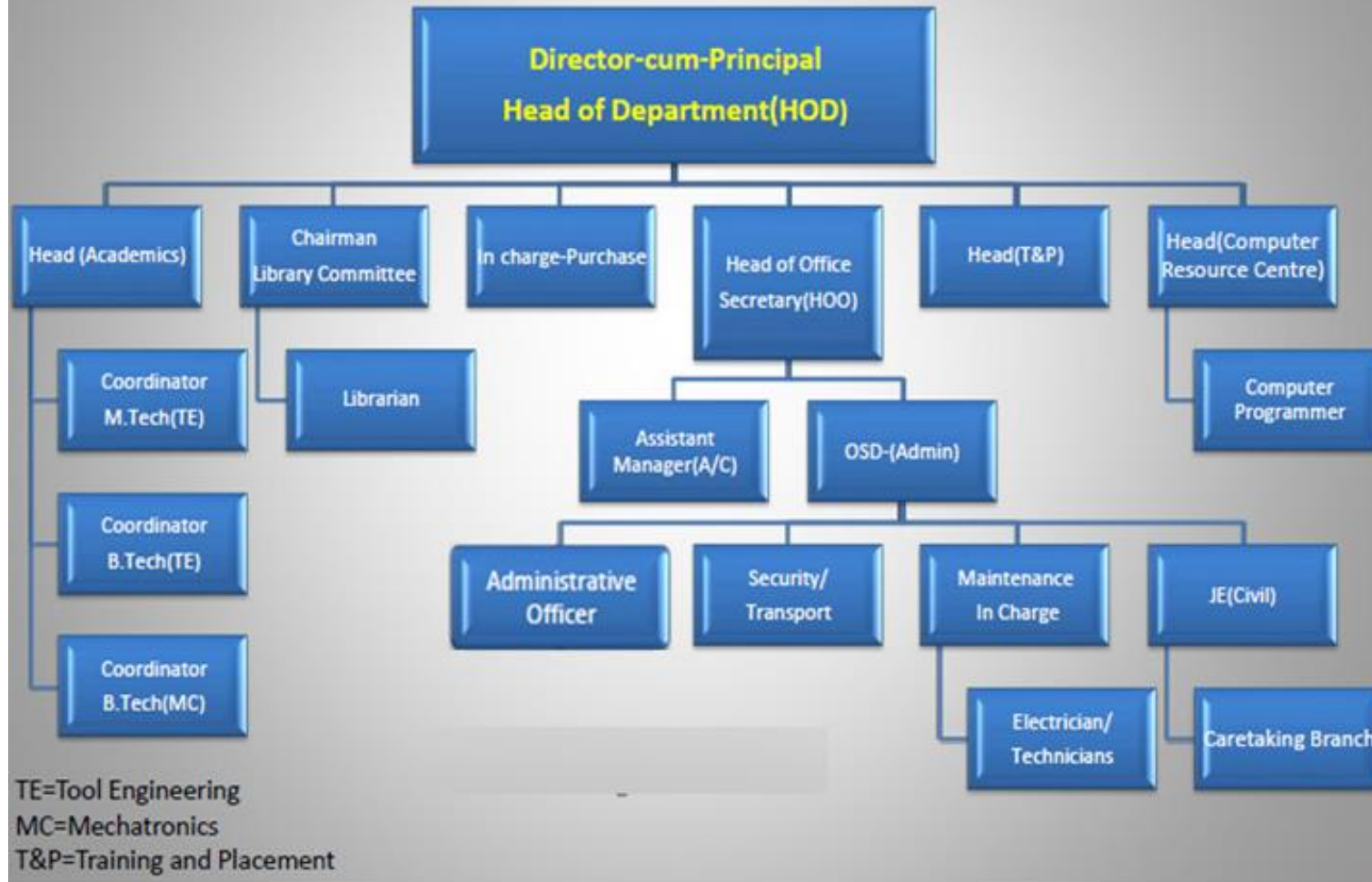
-----  
Shri Vineet Agarwal,  
Chief Executive Officer,  
M/s. Jay Bharat Maruti,  
Nehru Place, New Delhi 110019.

Member

**Organizational Chart**



# CAMPUS - II





## **Departmental Achievements**

- DITE has highly experienced and qualified faculty members including Ph.D. and M.Tech. Some of them are also having strong industrial, production and research experience.
- Faculty members are encouraged to pursue higher studies and 7 faculty members are pursuing Ph.D. The faculty members are actively involved in Research. Prominent Areas of Research includes Tool Engineering, Development of Composite Materials, Microwave Material Processing, Production Engineering, and Plastic Nanocomposites. Department faculties and staff help in training the students of other institution during summer vacation.
- Department faculty members regularly attend workshop/conferences/seminars organized time to time in various institutions and universities.
- It is pride for the institution that our students are 100% placed in various companies like Maruti Suzuki India Limited, Gurgaon, JBM Group, Fluor Daniel India Pvt. Ltd. Gurgaon, Tata Technologies Ltd. (TCS),New Delhi, Mothersonsumi Infotech & Designs Limited, Noida, SMR Automotive Systems India Limited, Noida, Radiant Industries, Sahibabad, Hongyi JIG Rapid Technologies Limited, Singapore, Movtons Casters India Pvt. Ltd., Noida. ÉAcme Die Systems Pvt. Ltd., New Delhi, Kiran Udyog Pvt. Ltd. Gurgaon. ÉIndo Toolings Private Limited, Indore, Kunstocom (India) Limited, Noida, Uttam Strips, Alwar ,SRS Diecasting Pvt. Ltd., Sohna, Gurgaon, Carrier Wheels Pvt. Ltd., Shamli, U.P.

## Publications by our Faculty members

- Dynamic mechanical analysis & topological studies of Phenoxy reinforced with modified red mud waste nanofiller based composites. AH Bhat, HPS Abdul Khalil, S Varshney , AK Banthia. Journal of composite materials .1-9 (2012).
- Synthesis, characterization and surface properties of Fe<sub>2</sub>O<sub>3</sub> decorated ferromagnetic polypyrrole nanocomposites.Swati Varshney , Kuldeep Singh, Anil Ohlan , V. K. Jain, V. P. Dutta, S.K.Dhawan. Journal of alloys and compounds,538,1076114 (2012).
- Robust Multifunctional Free Standing Polypyrrole Sheet for Electromagnetic Shielding.-Science of advanced materials.Swati Varshney , Kuldeep Singh, Anil Ohlan , V. K.Jain, V. P. Dutta, S.K.Dhawan. Science of advanced materials . 5, 881-890 (2013).
- Nanostructured graphene/Fe<sub>3</sub>O<sub>4</sub> incorporated polyaniline as a high performance shield against electromagnetic pollution. Kuldeep Singh, , Anil Ohlan, Viet Hung Pham, Balasubramanian R. Swati Varshney, Jinhee Jang , Seung Hyun Hur, Won Mook Choi , Mukesh Kumar ,S. K. Dhawan, Byung-Seon Kong, Jin Suk Chung. Nanoscale . 5, 2411-2420(2013).
- Conferences
- Swati Varshney ó Green Polymer from Renewable sources , National Seminar on New developments in biodegradable Polymers,2006, CIPET, Lucknow
- Swati Varshney , Kuldeep Singh, Anil Ohlan and S.K. Dhawan , Nano Ferromagnetic Conducting Polypyrrole ó Synthesis & Characterization, Second International Conference on Electroactive Polymers: Materials & Devices (ICEP ó 2007), 2007, P-43.
- Swati Varshney , Kuldeep Singh, V.P.Dutta and S.K. Dhawan, Designing of conducting Polypyrrole-Fe<sub>2</sub>O<sub>3</sub> Ferromagnetic nanocomposites for EMI Shielding in National Conference on Recent Trends in Materials and Devices (RTMD), 2011, P-140.
- Swati Varshney , Anil Ohlan , V.P.Dutta, V.K.Jain and S.K. Dhawan, Synthesis and Designing of Polypyrrole/Fly Ash/ -Fe<sub>2</sub>O<sub>3</sub> Nanocomposite for EMI Shielding in International Conference on Recent Trends in Materials and Devices (ICRTMD), 2013, P-28.
- Kuldeep Singh, Anil Ohlan , Swati Varshney , Jin Suk Chung and S.K. Dhawan, Functional Graphene @ Fe<sub>2</sub>O<sub>3</sub> incorporated polyaniline composite for microwave absorption in 13 th International Conference on Magnitude Fluids (ICMF-13),2013.

- Kapila, Arjun, Kanwarjeet Singh, Gaurav Arora, and Narayan Agarwal, "Effect of Varying Gate Size on the Air Traps in Injection Molding." International Journal of Current Engineering and Technology, E-ISSN 2277 6 4106, P-ISSN 2347 6 5161(2015).
- Kanwarjeet Singh, Gaurav Arora and Satpal Sharma, "Optimizing the Die Design Parameters for Bottle Washer Produced in Injection Moulding Using Mold Flow Analysis" in International Conference on Smart Technologies for Mechanical Engineering, ISBN: 978-93-83083-35-0 (2014).
- Gaurav Arora, Kanwarjeet Singh and Satpal Sharma "Optimizing the Die Design Parameters for U Shape Bracket using Hyper Form" in International Conference on Smart Technologies for Mechanical Engineering, ISBN: 978-93-83083-35-0 (2014).

### **Book Chapter**

- Conducting polymer nanocomposite based membrane for removal of Escherichia coli and total coliforms from waste water. Hema Bhandari, Swati Varshney, Amodh Kant Saxena, V.K. Jain and S.K. Dhawan. **Pan Stanford Publisher, Singapore.** ISBN 978-981-4463-54-6 (2014).

### **Student's Achievement**

- DITE being an Institute with industrial linkage and attached tool room ,therefore the students are encouraged to have on hand knowledge of machines, design and production activities. Besides industrial visits are regularly organized by Training and Placement dept for students. Large number of students of Tool Engineering department participates in the inter college project competition organized by GGSIP Universities. From 2<sup>nd</sup> year, B-Tech. students are encouraged to work on various projects.
- Final year M.Tech. students publish research papers in national and international journals and conferences.

Some of the research papers are listed below:

1. Vashisht, Rahul, and Arjun Kapila. "**A Comparative Study of Coolants Based on the Cooling Time of Injection Molding.**" (2014): 830-834.
2. Vashisht, Rahul, and Arjun Kapila. "**Analyzing Effects of Different Gates on Component and Molding Parameters.**" (2014): 2352-2359.

### **Project competition**

1. Students of 2009 batch Abhishek Shankar, Deepak Goel, Pradeep Kumar Singh, Rahul Kumar Pathak, Rohit Kumar, Gulshan Pokhriyal, Sona Raj Sudhanshu & Manish Kumar Singh had won First prize in the **Inter college project competition** organized by the Guru Gobind Singh Indraprastha University in the year 2013. The project was Progressive Tool for **Connecting link of bicycle chain** guided by Mr. Kanwarjeet Singh.
2. Students of 2010 batch had won First prize in the **Inter college** project competition organized by the Gurugobind Singh Indraprastha university in the year 2014. Project was **Design and Manufacturing of a Single Station Press Tool for Laminated Sheet of Armature Core of motor** supervised by Mr. Gaurav Arora and Mr. Kanwarjeet Singh.

SL NO	NAME	DESIGNASION	DATE OF JOINING	PAY BAND	GRADE PAY	QUALIFICATION
1	DR. NARAYAN AGRAWAL	ASSOCIATE PROF.	09.11.12	37400-67000	9000	PH.D
2	MR. B.N.TIWARI	ASST MANAGER	07.05.93	15600-39100	7600	AMIE,MECH ENGG MS IN MANUFACTURING
3	MR. R.K. DHAMMI	ASST MANAGER	05.07.12	15600-39100	7600	BE(ELECTRONICS &COMMUNICATION)APGDCA,MBA
4	MR. RAJEEV KR. GUPTA	INSTRUCTOR	04.01.93	15600-39100	6600	DIPLOMA IN MECH ENGG, BE, MBA
5	MR. PHALGUNI GHOSH	INSTRUCTOR	25.01.93	15600-39100	6600	DIPLOMA IN MECH ENGG
6	MR. SANJAY GAURI	INSTRUCTOR	26.04.93	15600-39100	6600	DIPLOMA IN ELECTONICS, B.TECH, IN ELECTRONICS & COMMUNICATION
7	MS. CHARU	ASSTT. PROF.	10.03.10	15600-39100	6000	M.TECH, PURSUING PH.D (MECH.) FROM IIT DELHI
8	MRS KIRAN PAL	ASSTT. PROF.	27.09.10	15600-39100	6000	M.PHIL, PURSUING PH.D . FROM AMITY UNIVERSITY
9	MRS SWATI VARSHNEY	ASSTT. PROF.	08.10.10	15600-39100	6000	PH.D
10	DR. SHALINI SHARMA	ASSTT. PROF.	27.09.10	15600-39100	6000	PH.D
11	MR KANWARJIT SINGH	ASSTT. PROF.	26.04.10	15600-39100	6000	M.TECH., PURSUING PH.D (MECH.) FROM GAUTAM BUDDHA UNIVERSITY
12	MR. VAIBHAV CHANDRA	ASSTT. PROF.	22.03.12	15600-39100	6000	M.TECH., PURSUING PH.D (MECH.) FROM IIT DELHI
13	MR. GAVRAV ARORA	ASSTT. PROF.	07.04.12	15600-39100	6000	M.TECH., PURSUING PH.D (MECH.) FROM GAUTAM BUDDHA UNIVERSITY
14	MR. ARUN GUPTA	ASSTT .PROF.	11.04.12	15600-39100	6000	M.TECH., PURSUING PH.D (MECH.) FROM DTU.
15	MR. PRAVEEN KUMAR	ASSTT. PROF.	01.05.12	15600-39100	6000	M.TECH., PURSUING PH.D (MECH.) FROM GAUTAM BUDDHA
16	MRS.UMA RANI	LIBRARIAN	23.09.10	15600-39100	6000	M.PHIL

SL NO	NAME	DESIGNATION	DATE OF JOINING	PAY BAND	GRADE PAY	QUALIFICATION	Teaching Experience in Years
17	SANDEEP SURI	Dy Manager	11/12/91	15600-39100	7600	B.Sc(Mech Engg), M.tech(Prod Engg)	32
18	BISHWANATH TIWARI	Asst Manager	07/05/93	15600-39100	7600	MIE(I), MS	21
19	AJAY KUMAR SEHGAL	Dy Manager	25/10/85	15600-39100	7600	IME(Mech), MBA	32
20	RAVINDER KUMAR JAIN	Asst Manager	02/02/92	15600-39100	6600	AMIE(Mech)	19
21	S N DAS	Asst Manager	10/05/93	15600-39100	6600	B.E.(Mech)	17
22	RAVI DUTT SHARMA	Asst Manager	07/04/82	9300-34800	5400	B.E.(Mech),MBA(HRD)	30
23	SANJEEV KUMAR	System Analyst	01/02/89	9300-34800	4600	MA(Maths), BSc	24
24	SANJAY KUMAR	TecG Gr I	01/05/95	9300-34800	5400	B.E.(Mech)	18
25	MAHENDER SINGH	Tech Gr I	12/12/95	9300-34800	5400	IME(Mech), Diploma(Mech)	12
26	GOPAL VASHISHTHA	Instructor	31/08/88	9300-34800	4600	ME(Prod),AMIE(Mech)	23
27	RAMESH CHANDER SHARDA	Instructor	10/11/82	9300-34800	4600	Diploma(Mold Technology)	11
28	RAJESH KUMAR SINGHAL	Training Officer	15/09/84	9300-34800	4600	Diploma(Tool & Die Making)	20
29	SURESH KUMAR VERMA	Training Officer	08/09/81	9300-34800	4600	AMIE(Mech)	20
30	JANANDRA KUMAR	Tech Gr II	08/12/95	9300-34800	4200	BE(Mech), Diploma(Mech)	18
31	ANUBHA GUPTA	Tech Gr II	01/04/97	9300-34800	4200	Diploma(Electrical & Electronics & Communication)	15



## Annexure V

### Laboratory details (For Graduate & Post Graduate Courses)

#### 1. B. Tech. (Tool Engineering)

Name of the Programme	Labs	Details of Equipments available in the existing labs
B.Tech (TE)	<b>Applied Physics Lab</b>	Cathode Ray Oscilloscope , Hall Effect set-up, Carey Foster Bridge, Plank Constant set-up, E/m measurement set-up, Spectrometer ,He-NE Laser, Grating and Prism experiments, Fiber Optic Tool Kit, Polarimeter, Hall effect set up, Carey Foster Bridge, Cathode ray tube, Cathode ray oscilloscope, Plank constant determination LED set-up, Platinum resistance thermometer, Thermal Conductivity measurement set-up, Platinum resistance thermometer, Thermal Conductivity measurement set-up, Charging and Discharging of capacitor kit, radio frequency oscillator for ultrasonic wave experiment.
	<b>Applied Chemistry Lab</b>	Digital Ph meter, Digital Conductivity meter, Digital Spectrometer and other standard kits to perform practicals.
	<b>Engg. Mechanics Lab</b>	To verify the law force polygon complete with complete with wooden frame, weigh thread etc, To verify the law of moments, to determine co-efficient c friction between wood and various surface, to find forces in the member c Jib crane, to determine the mechanical advantage, velocity ratio an mechanical efficiency of the wheel and axle, Verification of force transmitted by members of given truss, To verify the law of moments usir Hell crank Lever, To find CG and Moments of Inertia of an irregular body using computation method.
	<b>Electrical Lab</b>	Educational kit Having following Experiments <ul style="list-style-type: none"> <li>- Verification of Thevnins theorem, Norton s Theorem. Superposition theorems, Reciprocity Theorem, Kirchoffs Voltage &amp; current Law</li> <li>- Panel for connection l&amp; starting of 3 phase induction motor using.</li> <li>- Direct on line starter, Star/ Delta starter, Resistance starter, Auto transformer starter, Resistance Starter.</li> <li>- Panel for load Test on Single Phase Transformer having</li> <li>- Open Circuit Test, Short Circuit Test.</li> </ul>
	<b>Workshop</b>	Hackshaw, Cheicel, Hammer, Marking Scale, tile, Bench Vice.
<b>Electronics Lab</b>	DC/AC power supply, CRO, Function Generator, Digital Multimeter, PN Junction Diode, Diode Rectifier, Class	



		A,B,C amplifier, Phase Shift Oscillator, Feed Back Oscillator, Digital Logic Gate, Shift Register, Comparators, Lighting Signaling and controlling Circuits, Switches etc.
	<b>Automation Lab</b>	3 Sets of Basic Hydraulic Training kits, 3 sets of Basic Pneumatic Training Kits, 3 sets of Electro-Pneumatic Training kits, Transparent Models, Cut out section of various Pneumatic Components, Video cassettes, Transparencies.
	<b>KOM Dom Lab</b>	Rotating arrangement (Loaded Governor), Cylindrical Cam with Transiating follower. Plot cam with fiat faced reciprocating follower, End cam with transiating follower, Tangent Cam with roller oscillating follower. Transiating cam with reciprocating knife edge follower.
	<b>Fluid Mechanics Lab</b>	Bernoulli's Testing Apparatus, Orifice Meter Test apparatus, Venturi meter test apparatus.
	<b>CNC Lab</b>	Horizontal Milling Machining Centre, Vertical Copy Milling Machine, C Turning Machine, CNC Grinding Machine.
	<b>Metrology</b>	Slip Gauges, Micrometer, Vernier callipers, Height Gauge, Sine Bar, Dial indicator, Radius Gauges, Filler Gauges, Surface plate, surface level.
	<b>Jig Fixture &amp; Gauge Design Lab</b>	Software used : Pro -E, AUTOCAD
	<b>Mechatronics Lab</b>	Modicon make PLC, Siemens make PLC
	<b>CAD /CAM &amp; Product Design Lab</b>	Software available : Pro-E wild fire 5, Catia ó V5, Auto-CAD, CAD(Unigraphics), Solid Edge 2D Drafting, Unigraphic CAM, Autod Moldflow(under process of purchase).
	<b>Press Tool Lab &amp; Mould Design Lab</b>	CAD Software- Unigraphics, Catia, Pro E, CAE Software ó Hyperform, Mould-flow

## 2. B. Tech. (Mechatronics)

Name of the Programme	Labs	Details of Equipments available in the existing labs
B.Tech (MET)	<b>Applied Physics Lab</b>	Cathode Ray Oscilloscope , Hall Effect set-up, Carey Foster Bridge, Plank Constant set-up, E/m measurement set-up, Spectrometer ,He-NE Laser, Grating and Prism experiments, Fiber Optic Tool Kit, Polarimeter, Hall

	effect set up, Carey Foster Bridge, Cathode ray tube, Cathode ray oscilloscope, Plank constant determination LED set-up, Platinum resistance thermometer, Thermal Conductivity measurement set-up, Platinum resistance thermometer, Thermal Conductivity measurement set-up, Charging and Discharging of capacitor kit, radio frequency oscillator for ultrasonic wave experiment.
<b>Applied Chemistry Lab</b>	Digital Ph meter, Digital Conductivity meter, Digital Spectrometer and other standard kits to perform practicals.
<b>Engg. Mechanics Lab</b>	To verify the law force polygon complete with complete with wooden frame, weigh thread etc, To verify the law of moments, to determine co-efficient c friction between wood and various surface, to find forces in the member c Jib crane, to determine the mechanical advantage, velocity ratio an mechanical efficiency of the wheel and axle, Verification of force transmitted by members of given truss, To verify the law of moments usir Hell crank Lever, To find CG and Moments of Inertia of an irregular body using computation method.
<b>Electrical Lab</b>	Educational kit Having following Experiments <ul style="list-style-type: none"> <li>- Verification of Thevnins theorem, Norton s Theorem. Superposition theorems, Reciprocity Theorem, Kirchoffs Voltage &amp; current Law</li> <li>- Panel for connection l&amp; starting of 3 phase induction motor using.</li> <li>- Direct on line starter, Star/ Delta starter, Resistance starter, Auto transformer starter, Resistance Starter.</li> <li>- Panel for load Test on Single Phase Transformer having</li> <li>- Open Circuit Test, Short Circuit Test.</li> </ul>
<b>Workshop</b>	Hackshaw, Cheicel, Hammer, Marking Scale, tile, Bench Vice.
<b>Electronics Lab</b>	DC/AC power supply, CRO, Function Generator, Digital Multimeter, PN Junction Diode, Diode Rectifier, Class A,B,C amplifier, Phase Shift Oscillator, Feed Back Oscillator, Digital Logic Gate, Shift Register, Comparators, Lighting Signaling and controlling Circuits, Switches etc.
<b>Hydraulic &amp; Pneumatic Lab</b>	3 Sets of Basic Hydraulic Training kits, 3 sets of Basic Pneumatic Training Kits, 3 sets of Electro-Pneumatic Training kits, Transparent Models, Cut out section of various Pneumatic Components, Video cassettes, Transparencies.
<b>KOM Dom Lab</b>	Rotating arrangement (Loaded Governor), Cylindrical Cam with Transiating follower. Plot cam with fiat faced reciprocating follower, End cam with transiating follower,

		Tangent Cam with roller oscillating follower. Transiating cam with reciprocating knife edge follower.
	<b>Fluid Mechanics Lab</b>	Bernoulli's Testing Apparatus, Orifice Meter Test apparatus, Venturi meter test apparatus.
	<b>Metrology</b>	Slip Gauges, Micrometer, Vernier callipers, Height Gauge, Sine Bar, Dial indicator, Radius Gauges, Filler Gauges, Surface plate, surface level.
	<b>Mechatronics Lab</b>	Modicon make PLC, Siemens make PLC
	<b>NAP Lab</b>	C++, Excel, R- software
	<b>PLC Lab</b>	Modicon make PLC, Siemens make PLC, transformer module, Switches module, DC bulb module, Pushbutton module, Traffic light module.

### 3. M-Tech(TE)

<b>Name of programme</b>	<b>Labs</b>	<b>Details of Equipments available in existing labs</b>
M-Tech. (TE)	<b>Computer Aided Design and Manufacturing Lab</b>	Software available : Pro-E wild fire 5, Catia ó V5, Auto-CAD, CAD (Unigraphics), Unigraphic CAM. Horizontal Milling Machining Centre, Vertical Copy Milling Machine, C Turning Machine, CNC Grinding Machine.
	<b>Design of Jigs, Fixture &amp; Gauges Lab</b>	Design on Autocad ,Catia UG-NX, Creo and manufacture
	<b>Introduction to Finite Element Methods Lab</b>	Software used Abacus
	<b>Metrology Lab</b>	Slip gauges,micrometer,Vernier calliper, Height gauge, Sine Bar, Dial Indicator, Radius gauges, filler Gauges, Surface plate.
	<b>Introduction to Metal forming &amp; Press Tool Design Lab</b>	Design on Autocad ,Catia UG-NX, Creo and Hyperform.
	<b>CNC Technology &amp; Programming Lab</b>	Horizontal Milling Machining Centre, Vertical Copy Milling Machine, C Turning Machine, CNC Grinding Machine.
	<b>Industrial Automation &amp; Process Control Lab</b>	3 Sets of basic hydraulic training kits, 3 Sets of basic Pneumatic and electro-pneumatic training kits, Transparent models, Cut out section of various pneumatic components, video cassettes, Transparencies
	<b>Advance Press Tool Design Lab</b>	Design, analysis on Autocad ,Catia UG-NX, Creo and Hyperform.
	<b>Injection Mould Design and Analysis Lab</b>	Design and analysis on Autocad ,Catia UG-NX, Creo and moldflow.

## Annexure V- A

### Laboratory details (For Diploma Courses)-

#### 1. Diploma in Mechanical Engineering and Tool & Die Making

Name of the Programme	Labs	Details of Equipments available in the existing labs
Diploma in Mechanical Engineering & Diploma in Tool and Die Making	<b>Applied Physics Lab (At Campus –II)</b>	Cathode Ray Oscilloscope , Hall Effect set-up, Carey Foster Bridge, Plank Constant set-up, E/m measurement set-up, Spectrometer ,He-NE Laser, Grating and Prism experiments, Fiber Optic Tool Kit, Polarimeter, Hall effect set up, Carey Foster Bridge, Cathode ray tube, Cathode ray oscilloscope, Plank constant determination LED set-up, Platinum resistance thermometer, Thermal Conductivity measurement set-up, Platinum resistance thermometer, Thermal Conductivity measurement set-up, Charging and Discharging of capacitor kit, radio frequency oscillator for ultrasonic wave experiment.
	<b>Applied Chemistry Lab (At Campus –II)</b>	Digital Ph meter, Digital Conductivity meter, Digital Spectrometer and other standard kits to perform practicals.
	<b>Engg. Mechanics Lab (At Campus –II)</b>	To verify the law force polygon complete with complete with wooden frame, weigh thread etc, To verify the law of moments, to determine co-efficient c friction between wood and various surface, to find forces in the member c Jib crane, to determine the mechanical advantage, velocity ratio an mechanical efficiency of the wheel and axle, Verification of force transmitted by members of given truss, To verify the law of moments usir Hell crank Lever, To find CG and Moments of Inertia of an irregular body using computation method.
	<b>Electrical Lab (At Campus –II)</b>	Educational kit Having following Experiments <ul style="list-style-type: none"> <li>- Verification of Thevnins theorem, Norton s Theorem. Superposition theorems, Reciprocity Theorem, Kirchoffs Voltage &amp; current Law</li> <li>- Panel for connection l&amp; starting of 3 phase induction motor using.</li> <li>- Direct on line starter, Star/ Delta starter, Resistance starter, Auto transformer starter, Resistance Starter.</li> <li>- Panel for load Test on Single Phase Transformer having</li> <li>- Open Circuit Test, Short Circuit Test.</li> </ul>
	<b>Workshop (At Campus –I)</b>	Carpentry Shop, Fitting Shop, Welding Shop, Smithy Shops, Paint Shop (Equipped with all standard tools and accessories to conduct Training and Practices)
<b>Hydraulics &amp;</b>	3 Sets of Basic Hydraulic Training kits, 3 sets of Basic	

	<b>Pneumatics Lab</b>	Pneumatic Training Kits, 3 sets of Electro-Pneumatic Training kits, Transparent Models, Cut out section of various Pneumatic Components, Video cassettes, Transparencies.
	<b>KOM Dom Lab (At Campus –II)</b>	Rotating arrangement (Loaded Governor), Cylindrical Cam with Transiating follower. Plot cam with fiat faced reciprocating follower, End cam with transiating follower, Tangent Cam with roller oscillating follower. Transiating cam with reciprocating knife edge follower.
	<b>Fluid Mechanics Lab (At Campus –II)</b>	Bernoulli's Testing Apparatus, Orifice Meter Test apparatus, Venturi meter test apparatus.
	<b>Computer Integrated Manufacturing/ CNC Lab</b>	CNC Horizontal Milling Machining Centre, CNC Turning Machine.
	<b>Metrology</b>	Slip Gauges, Micrometer, Vernier calipers, Height Gauge, Sine Bar, Dial indicator, Radius Gauges, Filler Gauges, Surface plate, surface level.
	<b>CAD Lab</b>	Auto-CAD
	<b>Production Technology –I (Lathe) Lab</b>	HMT LB-20 Lathe 200 X 1000, HMT NH-20 Lathe 200 X 1000, HMT NH-26 Lathe 200 X 1000, IEC Lathe 165 X 600
	<b>Production Technology –II Milling Lab</b>	Macmon M-200 Tool Milling Machine-Universal, Macmon M-100 Tool Milling Machine, Aciera 22STA co-ordinate drilling machine, Bharat Firtz Werner VF 15 Milling Machine Vertical, HMT MITR Milling Machine
	<b>Production Technology –III Grinding Lab</b>	Jacobsen SJ-16 Grinding Machine, Jacobsen SJ-12 Grinding Machine, Thorns T-2 Universal Tool and Cutter Grinder, HMT G-130/500 U Cylindrical Grinding Machine, Praga 540 Surface Grinding Machine, Praga 411 Tool and Cutter Grinder
	<b>Press Tool Lab</b>	Sack & Kiessel back Hydraulic Hobbing Press 630 Ton
	<b>Mould Lab</b>	Windsor SP-130 Auto Injection Moulding Machine with Hydraulic core pulling
	<b>Non Conventional Mnf Process Lab</b>	Fanuc Wire cut CNC Machine, Charmiles Spark Erosion Machine
	<b>Engineering Metrology Lab</b>	Nikon Tool Room Microscope, Profile Projector, Slip gauges, micrometer, Vernier calliper, Height gauge, Sine Bar, Dial Indicator, Radius gauges, filler Gauges, Surface plate.

- The civil infrastructure in DITE is under renovation and laboratory upgradation and setting up of more labs is under process.

## Photo Gallery



