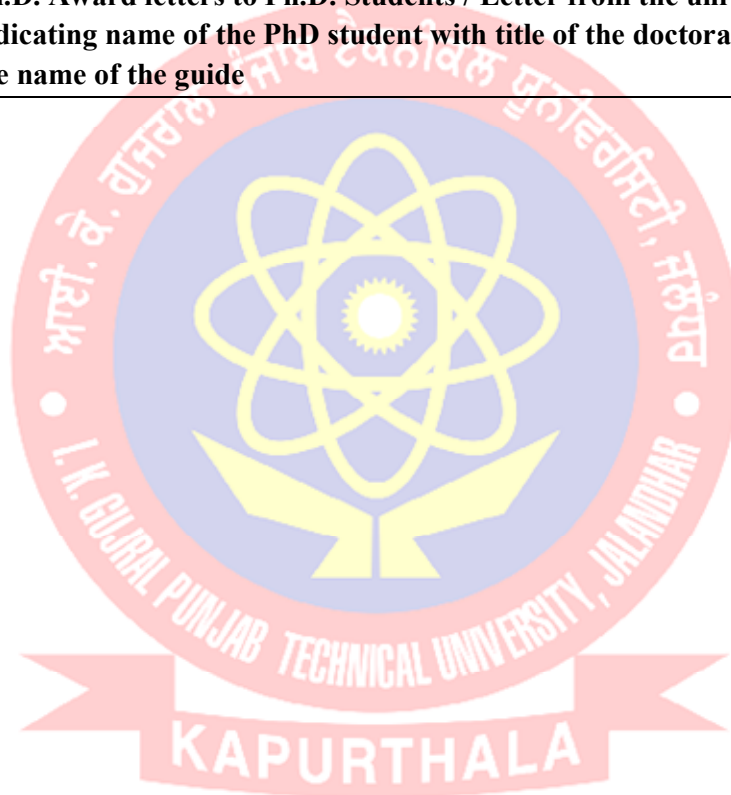


Department: Mechanical Engineering

3.4.4

## Ph.D's Awarded Per Teacher

Sl. No.	Documents Attached
1.	Ph.D. Award letters to Ph.D. Students / Letter from the university indicating name of the PhD student with title of the doctoral study and the name of the guide



PhD GUIDED - 3



**I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY,  
JALANDHAR**

**Ph.D NOTIFICATION**

Endst. No. IKGPTU/Ph.D/ 497

Dated: 11/8/18

**Notification: IKGPTU/2018/453 for the Ph.D degree award**

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Vineel Shibe S/D/o Madan Lal Shibe*, Regd. No. 1106002 in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on 11/8/18 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2011	13/07/2018	COMBATING EROSION WEAR OF INDUCED DRAFT FANS IN COAL FIRED POWER PLANTS WITH SOME SURFACE MODIFICATION TECHNIQUES.	Dr. Vikas Chawla Professor, Department of Mechanical Engineering, IKG PTU, Kapurthala.

Final degree will be conferred in the annual convocation of the University.

*Aphijl*

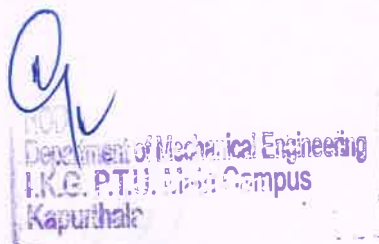
Dean (R&D)

*PNL*

Controller of Examination

*[Signature]*

Registrar



PHD GUIDED - 5

Dr. Anirudh P. Singh  
Dean  
Research & Development



ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ  
Estd Under Punjab Technical University Act, 1996  
(Punjab Act No.1 of 1997)

Ref No IKGPTU/RES/4295

Dated 17/11/18

TO WHOM IT MAY CONCERN

This is to certify that *Mr/Ms. Arunish Kumar* had been registered for Ph.D degree with this university in the discipline of *Mechanical Engineering*.

*Mr/Ms. Arunish Kumar* conducted research work on the following topic:

Research Topic	<i>HOT CORROSION BEHAVIOUR OF SOME Ni-Cr BASED COATINGS DEPOSITED BY DIFFERENT THERMAL SPRAYING TECHNIQUES ON BOILER STEELS</i>
Registration Number	<i>1006002</i>
Registration Date	<i>10.02.1110050</i>
Supervisor Name	<i>Dr. Vikas Chawla, Professor, IKG PTU, Kapurthala</i>
Co-Supervisor Name	<i>--</i>

*Mr/Ms Arunish Kumar* had submitted his/her research work thesis on 07.02.18. The same has been evaluated by experts. He/She successfully gave his/her viva-voce on 10.11.18. Subsequently, the committee has recommended to award the provisional Ph.D degree to *Mr/Ms Arunish Kumar*. The final degree will be awarded after approval of Academic Council and Board of Governors, IKG PTU.

*Anirudh P. Singh*  
Dean (R&D)

*Vikas Chawla*  
Department of Mechanical Engineering  
I.K.G. P.T.U. Main Campus  
Kapurthala

"Developing Youth for a prosperous Knowledge Society"

PhD GUIDED - 6



I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY,  
JALANDHAR

Ph.D NOTIFICATION

Endst. No. IKGPTU/Ph.D/ 304

Dated: 5/6/18

Notification: IKGPTU/2018/419 for the Ph.D degree award

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Rakesh Goyal S/D/o Raj Kumar*, Regd. No. *1006013* in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on *5/6/18* after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2011	09/05/2018	STUDY OF HOT CORROSION BEHAVIOUR OF THERMAL SPRAYED CNT REINFORCED Al <sub>2</sub> O <sub>3</sub> COATINGS ON BOILER STEELS.	<i>Dr. Buta Singh Sidhu</i> Dean (Planning and Development), MRS Punjab Technical University, Bathinda.  <i>Dr. Vikas Chawla</i> Professor, IKG PTU, Kapurthala.

Final degree will be conferred in the annual convocation of the University.

Dean (R&D)

Controller of Examination

Registrar

Department of Mechanical Engineering  
IKG PTU, Kapurthala

## PhD GUIDED - 7

**Dr. Anirudh P. Singh**Dean  
Research & Development**PTU**ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ  
Estd. Under Punjab Technical University Act, 1996  
(Punjab Act No 1 of 1997)Ref. No. IKG PTU/R&D/4361Dated 07-12-18TO WHOM IT MAY CONCERN

This is to certify that *Mr/Ms. Gagan Deep* had been registered for Ph.D degree with this university in the discipline of *Electronics & Communication Engg.*

*Mr/Ms. Gagan Deep* conducted research work on the following topic:

Research Topic	<i>DEVELOPMENT, CHARACTERIZATION &amp; TESTING OF CERAMIC BASED MICROWAVE ABSORBER COATINGS BY THERMAL SPRAYING</i>
Registration Number	<i>1005015</i>
Registration Date	<i>10.02.11</i>
Supervisor Name	<i>Dr. Vikas Chawla, In charge, IKG PTU, Hoshiapur Campus, Hoshiarpur</i>
Co-Supervisor Name	<i>Dr. Santosh Kumar Vishwakarma, Associate Professor, III, Indore</i>

*Mr/Ms Gagan Deep* had submitted his/her research work thesis on 07.02.18. The same has been evaluated by experts. He/She successfully gave his/her viva-voce on 05.12.18. Subsequently, the committee has recommended to award the provisional Ph.D degree to *Mr/Ms Gagan Deep*. The final degree will be awarded after approval of Academic Council and Board of Governors, IKG PTU.

Dean (R&amp;D)

Department of Mechanical Engineering  
I.K.G. PTU, Hoshiapur Campus  
Kapurthala*"Developing Youth for a prosperous Knowledge Society"***ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ**  
**I. K. Gujral Punjab Technical University**

Jalandhar-Kapurthala Highway, Kapurthala-144 603

Phone : +91-1822-662558, 662572 Fax : 01822-255504

Website : [www.ptu.ac.in](http://www.ptu.ac.in) Email : [deanric@ptu.ac.in](mailto:deanric@ptu.ac.in), [deanricptu@gmail.com](mailto:deanricptu@gmail.com)

PhD GUIDED - 9



**I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY,  
JALANDHAR**

**Ph.D NOTIFICATION**

Endst. No. IKGPTU/Ph.D/ 340


Dated: 11/6/18


**Notification: IKGPTU/2018/432 for the Ph.D degree award**

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Amardeep Singh S/D/o Sukhdev Singh*, Regd. No. 1206039 in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on 11/6/18 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

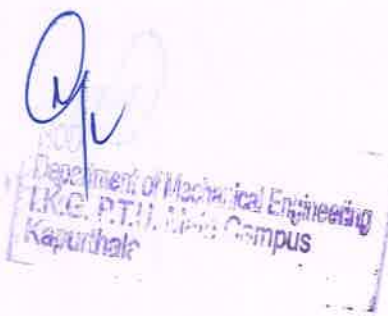
Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2012	30/05/2018	CHARACTERIZATION AND TESTING OF PLASMA-SPRAYED REINFORCED HYDROXYAPATITE COATINGS FOR BIO-MEDICAL APPLICATIONS.	Dr. Gurbhinder Singh Principal, SUSCET, Tangori.  Dr. Vikas Chawla Professor, IKG PTU, Kapurthala

Final degree will be conferred in the annual convocation of the University.

  
Dean (R&D)

  
Controller of Examination

  
Registrar



PHD GUIDED - 12



**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY**  
Jalandhar-Kapurthala Highway, Kapurthala – 144603.

**Ph.D NOTIFICATION**

Endst. No. IKGPTU/Ph.D/ 1019

Dated: 29/7/2020

**Notification: IKGPTU/2020/844 for the Ph.D degree award**

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Lucky Goyal S/D/o Sohan Lal Goyal*, Regd. No. 1011003 in the faculty of *Applied Sciences (Physics)*. This notification is issued on 29/7/2020 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

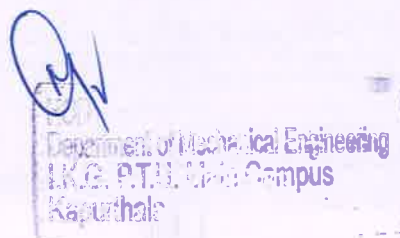
Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2011	15/06/2020	<i>STUDY OF HOT CORROSION BEHAVIOR OF SOME NANO STRUCTURED AND CONVENTIONAL COATINGS</i>	<i>Dr. Jasbir Singh Hundal, Registrar, Maharaja Ranjit Singh Punjab Technical University, Bathinda.</i>  <i>Dr. Vikas Chawla, Professor, IKG Punjab Technical University, Hoshiarpur Campus.</i>

Final degree will be conferred in the annual convocation of the University.

Dean (R&D)

Controller of Examination

Registrar



PhD GUIDED - 13

Dr. Anirudh Pratap Singh  
Dean  
Research and Development



ਆਈ. ਕੇ. ਗੁਜਰਾਲ, ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ  
I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR  
Jalandhar-Kapurthala Highway, Kapurthala-144 603  
Tel.: 01822-282569, 282572 Fax: 01822-255504  
Email : deanricplu@gmail.com, deanric@ptu.ac.in  
Website : www.ptu.ac.in

ਡਾ. ਅਨੀਰੁਧ ਪ੍ਰਤਾਪ ਸਿੰਘ  
ਡੀਨ  
ਰਿਸਰਚ ਅਤੇ ਡਿਵੈਲਪਮੈਂਟ

Ref. No. IKGPTU/R&D/363

Dated 4-9-2020

TO WHOM IT MAY CONCERN

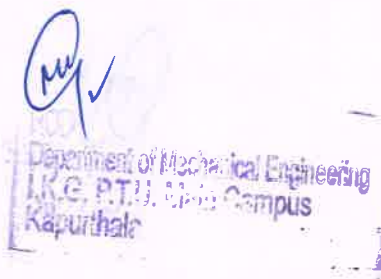
This is to certify that *Mr/Ms. Gurmail Singh* had been registered for Ph.D degree with this university in the discipline of *Mechanical Engineering*

*Mr/Ms. Gurmail Singh* conducted research work on the following topic:

Research Topic	INVESTIGATION ON THE HOT CORROSION BEHAVIOUR OF HVOF SPRAYED MICRO AND NANO-COMPOSITE COATINGS
Registration Number	1206010
Registration Date	15.06.12
Supervisor Name	Dr. Niraj Bala, Associate Professor, BBSBEC, Fatehgarh Sahib
Co-Supervisor Name	Dr. Vikas Chawla, Dean (Academics) & Professor, ME, IKGPTU, Kapurthala

*Mr/Ms Gurmail Singh* had submitted his/her research work thesis on 06.02.20. The same has been evaluated by experts. He/She successfully gave his/her viva-voce on 17.08.20. Subsequently, the committee has recommended his/her name for the award of Ph.D degree. The Provisional Degree Certificate (PDC) is being issued to him/her. The final degree will be awarded after approval of the Academic Council and the Board of Governors.

*[Signature]*  
Dean (R&D)





PhD GUIDED - 14

5/12/2021

PHD



Dr. Gaurav Bhargava

Dean,  
Research & Development

INDER KUMAR GUJRAL

PTU PUNJAB  
TECHNICAL  
UNIVERSITY

ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਕਪੂਰਥਲਾ

Ref No PTU/RIC/Ph.D/1206040/735

Dated 19.03.21

TO WHOM IT MAY CONCERN

This is to certify that Mr/Ms. SEWA SINGH, provisional number 1206040 had been registered for Ph.D degree with this university in the discipline of Mechanical Engineering.

Mr/Ms. SEWA SINGH conducted research work on the following topic:

Research Topic DEVELOPMENT AND CHARACTERIZATION OF WELDMENTS OF SOME SIMILAR AND DISSIMILAR METALS USING FRICTION WELDING AND TIG WELDING

Registration Number 1206040

Registration Date 13/07/2012

Supervisor Name Dr. Vikas Chawla - 11060010

Co-Supervisor Name Dr. Gurbhinder Singh - 11060050

Mr/Ms SEWA SINGH had submitted his/her research work thesis on 28/05/2020. The same has been evaluated by experts. He/She successfully gave his/her viva-voce on 17/03/2021. Subsequently the committee has recommended to award the provisional Ph.D degree to Mr/Ms SEWA SINGH. The final degree will be awarded after approval of Academic Council and Board of Governors, PTU.

(Dr. Gaurav Bhargava)  
Dean (R&D)

"Developing Youth for a Prosperous Knowledge Society"

ਇੰਦਰ ਕੁਮਾਰ ਗੁਜਰਾਲ, ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਜੰਗਲ-ਕਪੂਰਥਲਾ ਹਾਈਵੇ, ਕਪੂਰਥਲਾ 144601  
Inder Kumar Gujral, Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala (India)  
Phone: +91-1822-662550, 662572 Fax: 01822-255504 Website: www.ptu.ac.in  
E-mail: deanric@ptu.ac.in, deanric@gmail.com

Department of Mechanical Engineering  
I.K.G. P.T.U. Main Campus  
Kapurthala

**PHD GUIDED - 15**



**INDER KUMAR GUJARAL PUNJAB TECHNICAL UNIVERSITY**  
Jalandhar - Kapurthala Highway, Near Pushpa Gujral Science City, Kapurthala - 144603 (Punjab) INDIA.

**Department of Research & Development**

**Public Notice**

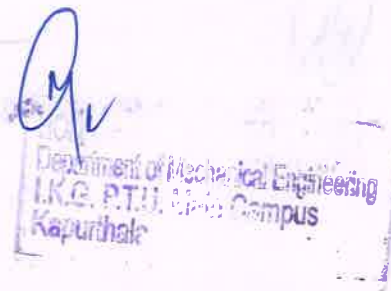
The PhD thesis (viva-voce) presentation of following candidate(s) has/have been scheduled to be held online through web conference as per following detail:

Date and time	Stream	Candidate Name and Regd. No.	Topic of thesis	Guide / Co-guide	Outside of expert	Coordinator
17-08-2021 at 11:30 AM	Mechanical Engineering	Mr. Harinder Grover 1206038	INVESTIGATING MARINE CORROSION BEHAVIOR AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED AA5083-H321	Dr. Vikas Chawla Professor, Dean (Academics) & Director, IKG PTU Main Campus, Kapurthala  Dr. Gurbinder Singh Brar Principal, Anand College of Engineering & Management, Kapurthala-144603, Punjab, India	Dr. S. K. Nath Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology, Roorkee, Hardwar Highway, Roorkee, Uttarakhand 247667	Dr. Neelkaanth Grover HOD (Mechanical Engineering), IKG PTU Main Campus, Kapurthala

Interested faculty members, research scholars and staff members are welcome to attend the online public presentation as per schedule. (Link of Skype meeting will be provided through email by Dy. Registrar (R&D))

**CC:**

- PS to Hon'ble Vice Chancellor (For the kind information of Hon'ble Vice Chancellor).
- Dean (R&D).
- Registrar Office, IKGPTU.
- Director, IKG PTU, Main Campus, Kapurthala.
- HOD, Mechanical Engg., for information of students of concerned stream of main campus, IKGPTU.





# I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

## Ph.D NOTIFICATION

Endst. No. IKGPTU/Ph.D/980

Dated: 9/6/2020

### Notification: IKGPTU/2020/816 for the Ph.D degree award

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Amresh Kumar S/D/o Hari Kishan*, Regd. No. 1206026 in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on 9/6/2020 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2012	28/02/2020	AN EXPERIMENTAL INVESTIGATION ON MACHINING OF HYBRID $Ai/(SiC_p+Gr_p+Fe_2O_3p)$ MMC BY EDM AND WEDM	Dr. Neel Kant Grover Associate Professor, IKG PTU, Kapurthala.  Dr. Alakesh Manna Professor, PEC University of Technology, Chandigarh.

Final degree will be conferred in the annual convocation of the University.

*Ashwini*

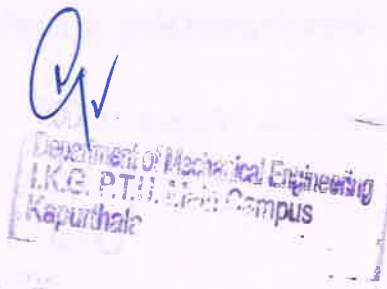
Dean (R&D)

*Dr.*

Controller of Examination

*[Signature]*

Registrar





# I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

## Ph.D NOTIFICATION

Endst. No. IKGPTU/Ph.D/ 496

Dated: 11/8/18

### Notification: IKGPTU/2018/449 for the Ph.D degree award

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Guzal Preet Arneja S/D/o Jagmohan Singh*, Regd. No. *1006004* in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on 11/8/18 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

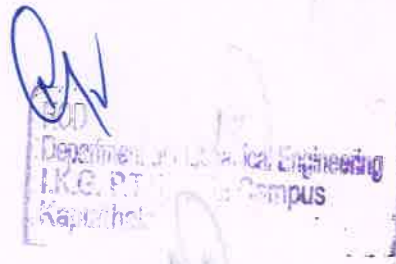
Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2011	12/07/2018	<i>FACILITY LAYOUT RECONFIGURATION PLANNING WITH RECONFIGURABLE MACHINE TOOLS.</i>	<i>Dr. Rakesh Kumar Associate Professor, SBSCET, Ferozepur.</i>  <i>Dr. Neelkanth Grover Associate Professor, Dept. of Mechanical Engineering, IKG PTU, Kapurthala..</i>

Final degree will be conferred in the annual convocation of the University.

Dean (R&D)

Controller of Examination

Registrar





# I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Jalandhar-Kapurthala Highway, Kapurthala – 144603.

## Ph.D NOTIFICATION

Endst. No. IKGPTU/Ph.D/ 1009

Dated: 24/7/2020

### Notification: IKGPTU/2020/823 for the Ph.D degree award

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Mithlesh Sharma S/D/o Ram Rattan Sharma*, Regd. No. 1306005 in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on 24/7/2020 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2012	24/04/2020	DEVELOPMENT OF HVOF-SPRAYED AND ADHESIVE COATINGS FOR SLURRY EROSION RESISTANCE	Dr. Deepak Kumar Goyal Assistant Professor, Department of Mechanical Engineering, IKG PTU Main Campus, Kapurthala.
			Dr. Gagandeep Kaushal Assistant Professor, YCOE, Punjabi University Campus, Talwandi Sabo, Punjab.

Final degree will be conferred in the annual convocation of the University.

*A. Singh*  
Dean (R&D)

*[Signature]*  
Controller of Examination

*[Signature]*  
Registrar

*[Signature]*  
Department of Mechanical Engineering  
I.K.G. P.T.U. Main Campus  
Kapurthala



# I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

## Ph.D NOTIFICATION

Endst. No. IKGPTU/Ph.D/493

Dated: 11/8/18

### Notification: IKGPTU/2018/445 for the Ph.D degree award

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Munish Mehta S/D/o Budhwant Lal Mehta*, Regd. No. 1406028 in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on 11/8/18 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2014	06/07/2018	RELIABILITY ANALYSIS AND PERFORMANCE EVALUATION OF VARIOUS COMPLEX SYSTEMS.	Dr. Jujhar Singh Assistant Professor, IKG PTU, Jalandhar.
			Dr Manpreet Singh Professor, LPU, Phagwara.

Final degree will be conferred in the annual convocation of the University.

Dean (R&D)

Controller of Examination

Registrar

Department of Mechanical Engineering  
I.K.G. P.T.U. Old Campus  
Kapurthala



# I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

## Ph.D NOTIFICATION

Enst. No. IKGPTU/Ph.D/100

Date: 26/2/19

**Notification: IKGPTU/2019/568 for the Ph.D degree award**

With the approval of competent authority, I. K. Gujral Punjab Technical University notify the award of Ph.D degree to Mr/Ms. *Rohit Rampal* S/D/o *Vijay Rampal*, Regd. No. 1206025 in the faculty of *Engineering (Mechanical Engineering)*. This notification is issued on 26/2/19 after completion of thesis work and successfully defended his/her case during presentation among expert panel of university.

Year of Enrolment	Date of Viva-voce	Title of the Thesis	Name & Address of the Research Supervisor
2012	25/01/2019	INVESTIGATION OF MAGNETICALLY ASSISTED ABRASIVE FINISHING PROCESS USING ABRASIVES OBTAINED BY DIFFERENT TECHNIQUES.	Dr. Taran Goyal Assistant Professor, Department of Mechanical Engineering, IKG PTU Campus, Hoshiarpur.

Final degree will be conferred in the annual convocation of the University.

*Al Singh*  
Dean (R&D)

*Dr. G. S.*  
Controller of Examination

*[Signature]*  
Registrar

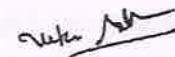
*[Signature]*  
Department of Mechanical Engineering  
I.K.G. P.T.U. Main Campus  
Kapurthala



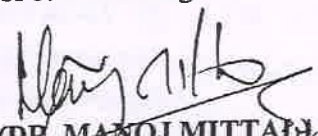
I.K.G PUNJAB TECHNICAL UNIVERSITY,  
JALANDHAR  
CANDIDATE'S DECLARATION

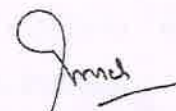
I hereby certify that the work which is being presented in the thesis, entitled **"SOME INVESTIGATIONS ON PLASMA SPRAYED PURE AND REINFORCED HYDROXYAPATITE COATINGS"** in fulfillment of the requirements for the award of the degree of Doctor of Philosophy in Faculty of Engineering (Mechanical Engineering) and submitted in I. K. Gujral Punjab Technical University, Jalandhar is an authentic record of my own work carried out during a period from Jan., 2011 to Dec., 2017 under the supervision of **Dr. Tejinder Singh Sidhu and Dr. Manoj Mittal**.

The matter embodied in this thesis has not been submitted by me for the award of any other degree of this or any other University/Institute.

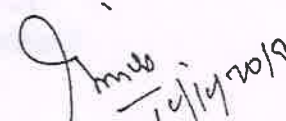
  
(VIKAS RATTAN)  
Signature of candidate

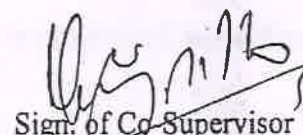
This is to certify that the above statement made by the candidate is correct to the best of our knowledge.


  
(DR. MANOJ MITTAL)  
Co-Supervisor  
Deptt. of Mech. Engg  
I.K.G Punjab Technical University  
Jalandhar, Punjab, India

  
(DR. TEJINDER SINGH SIDHU)  
Supervisor  
Professor and Director  
Shaheed Bhagat Singh State Technical  
Campus, Ferozepur, Punjab, India

The Ph.D. Viva-Voce examination of **Vikas Rattan**, Research Scholar, has been held on 10/12/2019.

  
Sign. of Supervisor  
10/12/2019

  
Sign. of Co-Supervisor  
10/12/19

  
Sign. of External Examiner  
(**BRIVAZHAGAN N**)  
Department of Mechanical Engineering  
I.K.G. P.T.U. Ferozepur Campus  
Kapurthala





**Dr. Gaurav Bhargava**

Dean,  
Research & Development

**INDER KUMAR GUJRAL**

**PTU** PUNJAB  
TECHNICAL  
UNIVERSITY

ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਕਪੂਰਥਲਾ

Ref. No PTU/RIC/Ph D/1406077/721

Dated 22 03 21

TO WHOM IT MAY CONCERN

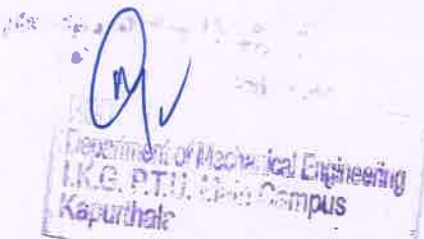
This is to certify that Mr/Ms. ROHIT SHARMA, provisional number 1406077 had been registered for Ph.D degree with this university in the discipline of Mechanical Engineering.

Mr/Ms. ROHIT SHARMA conducted research work on the following topic:

Research Topic	Study and Analysis of Wire EDM Process on Metal Matrix Composites
Registration Number	1406077
Registration Date	20/08/2014
Supervisor Name	Dr. Vivek Aggarwal - 16060005
Co-Supervisor Name	Hoshiyar Singh Payal - 11060047

Mr/Ms ROHIT SHARMA had submitted his/her research work thesis on 15/05/2020. The same has been evaluated by experts. He/She successfully gave his/her viva-voce on 12/03/2021. Subsequently the committee has recommended to award the provisional Ph.D degree to Mr/Ms ROHIT SHARMA. The final degree will be awarded after approval of Academic Council and Board of Governors, PTU.

(Dr. Gaurav Bhargava)  
Dean (R&D)



*"Developing Youth for a Prosperous Knowledge Society"*

ਇੰਦਰ ਕੁਮਾਰ ਗੁਜਰਾਲ, ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਜਲੰਧਰ-ਕਪੂਰਥਲਾ ਰਾਜਮਾਰਗ, ਕਪੂਰਥਲਾ 144601  
Inder Kumar Gujral, Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala (India)  
Phone: +91-1822-662558, 662572 Fax: 01822-255504 Website: www.ptu.ac.in  
E-mail: deanricptu@gmail.com, deanric@ptu.ac.in



# SINGHANIA UNIVERSITY

Pacheri Bari, (Jhunjhunu), Raj.- 333515  
(Established Under Section 2(f) of UGC ACT, 1956)

## PROVISIONAL DEGREE

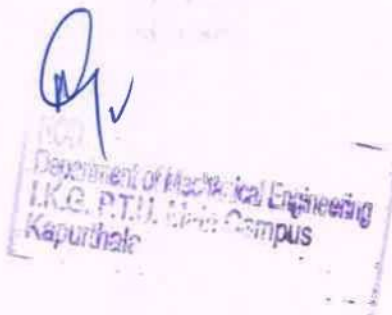
The Academic Council of the Singhania University upon the recommendation of the Research Board hereby confers on **AMANDEEP SINGH** son/daughter of **SURJIT SINGH** the Provisional Degree of **Doctor of Philosophy** in **MECHANICAL ENGINEERING** after completion of the prescribed requirements for the said degree in the viva - voce held on **2018-12-01**. The Provisional Degree has been awarded in compliance of UGC (Minimum Standards and Procedure for awards of M.Phil/Ph.D Degree) Regulation, 2009.

The subject on which he/she presented the thesis for the degree was:

**To investigate some surface modification techniques combating erosive wear of I.D Fans in coal fired power plants.**

Pacheri Bari

Date: 2019-01-15



Registrar