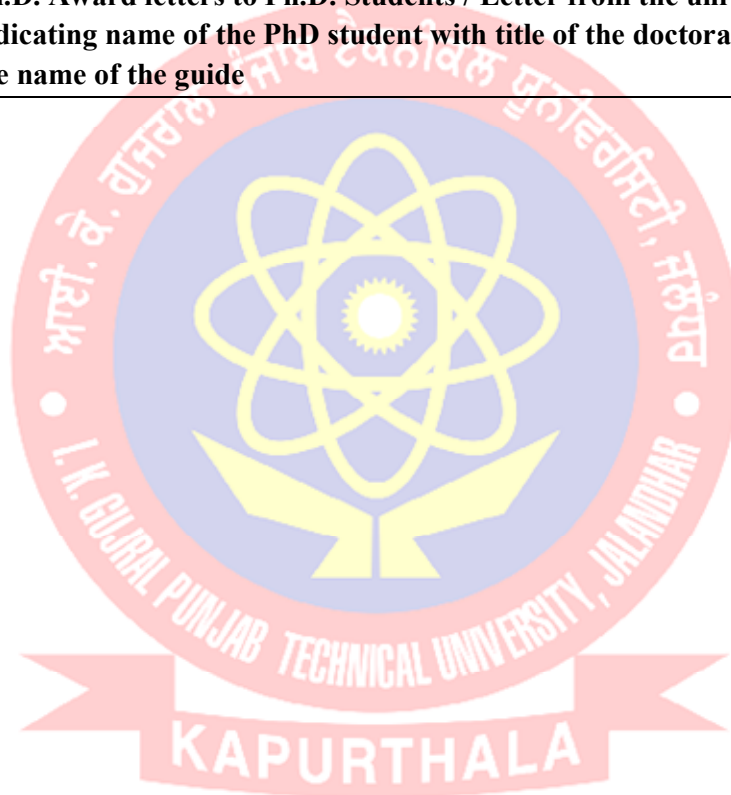


Department: Mathematical Sciences

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



Dr. Anirudh P. Singh

Dean
Research & Development



PTU

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

Ref. No. IKGPTU/R&D/4430

Dated 18/12/18

TO WHOM IT MAY CONCERN

This is certified that Mr./Ms. Mandev Singh, was registered for Ph.D degree with this university in the discipline of Applied Sciences -Mathematics.

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

Research Topic	ON THE WEIGHT DISTRIBUTION AND BOUNDS ON UNDETECTED ERROR PROBABILITY OF CYCLIC CODES WITH ITS APPLICATIONS
Registration Number	1113018
Registration Date	Aug. 05, 2011
Name of Supervisor	Dr. Rajesh Kumar Narula, 11130020, Assistant Professor, I.K. Gujral Punjab Technical University, Main Campus, Kapurthala
Name of Co-supervisor	Dr. O.P Vinocha, Retired Profesor, Ferozpur College of Engineering and Technology, Ferozpur

Mr./Ms. Mandev Singh submitted his/her Ph.D thesis on 21.03.2018. The same was evaluated by experts. He/She successfully gave his/her viva-voce on Dec. 03, 2018. Subsequently the committee recommended to award the provisional Ph.D degree to Mr./Ms. Mandev Singh. The final degree will be awarded after the approval of Academic Council and Board of Governors, IKG PTU.

Dean (R&D)

Head
Department of Mathematics
I.K. Gujral Punjab Technical University
Kapurthala-144603 Pb. (India)

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I. K. Gujral Punjab Technical University
Jalandhar-Kapurthala Highway, Kapurthala-144 603
Phone : +91-1822-662558, 662572 Fax : 01822-255504

CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in the thesis, entitled "STUDIES ON MULTIPLE ERROR CORRECTING BCH CODE AND GOPPA CODE WITH ITS APPLICATIONS" in fulfillment of the requirements for the award of the degree of Doctor of Philosophy in Faculty of Mathematics and submitted in I.K.Gujral Punjab Technical University, Jalandhar is an authentic record of my own work carried out during a period from August, 2011 to May 2017 under the supervision of Dr. Rajesh Kumar Narula and Dr. O.P.Vinocha.

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.

A. Kumar
(Ajay Kumar)

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

O.P. Vinocha

Dr. O.P.Vinocha)

Co-Supervisor)
Ex. Principal & Dean
Panjab University
Sri-Ganganagar (Rajasthan)

Rajesh Kumar Narula
21/5/2017
(Dr. Rajesh Kumar Narula)

(Supervisor)
Assistant Professor
I.K.Gujral Punjab Technical University
Deptt of Mathematics
Jalandhar (Punjab)

The Ph.D. Viva-Voice examination of Ajay Kumar Research Scholar, has been held on 12.03.18

O.P. Vinocha
12/3/18
Sign. of Supervisor(s)

O.P. Vinocha
Sign. of Co-Supervisor(s)

Pratima
12/3/2018
Sign. of External Examiner

Head
Department of Mathematical Sciences
I.K.Gujral Punjab Technical University
Jalandhar (Punjab)
150003 Pb. (India)

22848-55
-30

11-12-2011
as per
verified

Dr. Anirudh P. Singh

Dean
Research & Development



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Estd. Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. IKGPTU/RSD/149

Dated 23/1/19

TO WHOM IT MAY CONCERN

This is certified that Mr./Ms. Abhishek, was registered for Ph.D degree with this university in the discipline of Applied Sciences –Mathematics.

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

Research Topic	WAVE PROPAGATION IN COMPOSITE SOLID MATRIX CONTAINING TWO IMMISCIBLE FLUIDS
Registration Number	1213014
Registration Date	June. 06, 2012
Name of Supervisor	Dr. Ashish Arora, 11130006, Associate Professor & HOD, I.K Gujral Punjab Technical University, Kapurthala
Name of Co-supervisor	NA

Mr./Ms. Abhishek submitted his/her Ph.D thesis on 04.06.2018. The same was evaluated by experts. He/She successfully gave his/her viva-voce on Dec. 17, 2018. Subsequently the committee recommended to award the provisional Ph.D degree to Mr./Ms. Abhishek. The final degree will be awarded after the approval of Academic Council and Board of Governors, IKG PTU.

AP Singh

Dean (R&D)

An
Head
Department of Mathematical Sciences
I.K. Gujral Punjab Technical University
Kapurthala, Punjab, (India)

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Website : www.ptu.ac.in Email : deanric@ptu.ac.in, deanricptu@gmail.com

Jr. Anirudh P. Singh

Dean
Research & Development



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Estd Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. IKGPTU/R14/914

Dated 24/5/19

TO WHOM IT MAY CONCERN

This is certified that Mr. / Ms. Divya Taneja was registered for Ph.D degree with this University in the discipline of Applied Sciences-Mathematics.

Mr. / Ms. Divya Taneja conducted research work on the following topic:

Research Topic	ON THE STUDY OF GENERALISED QUANTUM MAXIMUM-DISTANCE-SEPARABLE (MDS) AND BOSE-CHAUDHURI-HOCQUENGHEM (BCH) CODES
Registration Number	1213008
Registration Date	June 06, 2012
Name of Supervisor	Dr. Rajesh Kumar Narula, 11130020, Assistant Professor, I.K Gujral Punjab Technical University, Kapurthala
Name of Co-supervisor(s)	Dr. Manish Gupta, Associate Professor, Baba Farid College of Engineering and Technology, Deon, Bathinda

Mr. / Ms. Divya Taneja submitted his/her Ph.D thesis on 27.08.2018. The same was evaluated by experts. He / She successfully gave his / her viva-voce on May 21, 2019. Subsequently the committee recommended to award the provisional Ph.D degree to Mr. / Ms. Divya Taneja. The final degree will be awarded after the approval of Academic Council and Board of Governors, IKG PTU.

Dean (R&D)

Head
Department of Mathematical Sciences
I.K. Gujral Punjab Technical University
Kapurthala-144603 Pb. (India)

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I. K. Gujral Punjab Technical University
Jalandhar-Kapurthala Highway, Kapurthala-144 603
Phone : +91-1822-662558, 662572 Fax : 01822-255504



I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Ph.D NOTIFICATION

Endst. No. IKGPTU/Ph.D/768

Dated: 19/12/19

Notification: IKGPTU/2019/749 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. *Neeru Bala S/D/o Kewal Krishan*, Regd. No. *1113012* in the faculty of *Applied Sciences (Mathematics)*. This notification is issued on 19/12/19 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
2011	18/11/2019	DYNAMICAL STUDY OF WAVES IN COMPOSITE POROELASTIC STRUCTURE SATURATED BY MULTIPLE FLUIDS	Dr. Ashish Arora Associate Professor & HOD I. K. Gujral Punjab Technical University, Kapurthala

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

[Signature]
Dean (R&D)

[Signature]
Controller of Examination

[Signature]
Registrar

[Signature]
Head
Department of Mathematical Sciences
I.K. Gujral Punjab Technical University
Kapurthala-141003 Ph. (India)

Department of
Research & Development



PTU

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

Ref. No. 47/IKGPTU/R&D 27/01/2021

Dated _____

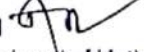
TO WHOM IT MAY CONCERN

This is certified that Mr/Ms. Rajan Goyal was registered for Ph.D. degree with this University in the discipline of Engineering – Computer Science and Engineering. Mr/Ms. Rajan Goyal conducted research work on the following topic:

RESEARCH TOPIC	RECOGNITION OF TYPEWRITTEN GURMUKHI SCRIPT DOCUMENTS
Registration No.	1303015
Registration Date	24.12.2012
Name of Supervisor	Dr. Rajesh Kumar Narula . Assistant Professor, Dept. of mathematical Sciences, I.K. Gujral Punjab Technical University, Kapurthala
Name of Co-supervisor	Dr. Manish Kumar Jindal, Professor, Computer Science Department Panjab University Regional Centre, Muksar.

Mr/Ms.. Rajan Goyal submitted his/her Ph.D. thesis on 13.12.2019. The same was evaluated by experts. He/she successfully gave his/her viva-voce on 18.01.2021. Subsequently the committee recommended to award the provisional Ph.D. degree to Mr/Ms. Rajan Goyal. The final degree will be awarded after the approval of Academic Council and Board of Governors. IKGPTU.


Associate Dean


Head
Department of Mathematical Sciences
I.K. Gujral Punjab Technical University
Kapurthala-14603 Pb. (India)

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