



शिक्षाणकअफयसकायालय
भारतीय प्रौद्योगिकीसंस्थान, रूड़की
रूड़की- 247 667, हरिद्वार (उत्तराखण्ड), भारत

ACADEMIC AFFAIRS OFFICE
INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Roorkee - 247 667, Haridwar (Uttarakhand), India
Website: www.iitr.ac.in

No. Research/ 1540/Ph.D.

Dated: March 18, , 2019

To whom it may concern

This is to certify that:

Mr. Rajan Walia (Enrollment No. 079653), has worked on topic 'SYNTHESIS AND CHARACTERIZATION OF MAGNETIC NANOSTRUCTURES" as a Ph.D. student in the Department of Physics at Indian Institute of Technology Roorkee under the supervision of Prof. RAMESH CHANDRA and Prof. R. Jayaganthan from January 01, 2008 to December 21, 2012 as Regular student.

The thesis was submitted on September 03, 2012 and open viva-voce examination was held on December 21, 2012 through circulation of the notice.

The student has published two research papers in referred journals and has made two presentations in conferences till final viva-voce examination.

The Ph.D. students are admitted to the Ph.D. programme on the basis of academic record, test/interview or both and guidelines as in force in the Institute from time to time.

The academic performance during Ph.D. programme is evaluated by a Student Research Committee (SRC). The student needs to complete the requirements of Pre-Ph.D. courses and research proposal (through presentation) to the SRC.

The student makes a Pre-synopsis presentation to SRC and the thesis is examined by external examiners.

The Institute preserves a soft copy of the thesis.

The Institute is an autonomous Institution created by an Act of Parliament. Institute follows Government of India guidelines on reservation as applicable from time to time.

This certificate is issued on the request of the student.

Rajiv
18/03/19
Assistant Registrar
(Evaluation)

18/3/19

भारतीय प्रौद्योगिकी संस्थान रुड़की

अभिषद् की अनुशंसा पर
विद्या वाचस्पति
की उपाधि

राजन वालिया

को, जिन्होंने इस उपाधि की अवाप्ति हेतु विनियम विहित अपेक्षाओं को सन् 2013 में सफलतापूर्वक पूरा कर लिया है, एतद्वारा प्रदान करता है।

शोध प्रबन्ध शीर्षक: सिन्थेसिस एण्ड कैरेक्टेराइजेशन ऑफ मैग्नेटिक नैनोस्ट्रक्चर्स
भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक 21 सितम्बर 2013, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

On the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

upon

RAJAN WALIA

who has successfully completed in the year 2013 the requirements prescribed under the regulations for the award of this degree

Thesis Title: SYNTHESIS AND CHARACTERIZATION OF MAGNETIC NANOSTRUCTURES

Given this day, the 21st of September 2013, under the seal of the Institute at Roorkee in the Republic of India.



Anuj Singh

अध्यक्ष, अभिशासक परिषद्
Chairman, Board of Governors

Banshi

निदेशक एवं अध्यक्ष, अभिषद्
Director & Chairman, Senate

Sharma

कुलसचिव
Registrar

Serial No.....341.....

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE ROORKEE (INDIA)



PROVISIONAL CERTIFICATE

This is to certify that.....Ranjan walia.....

has completed his/her research work for the award of Ph.D. degree in
.....Physics.....His/Her Viva-Voce

Examination has been held on.....21-12-2012.....He/She submitted

the Ph.D. Thesis on the topic.....Synthesis and Characterization
of magnetic nanostructures.....

Dated.....1/1/2013.....


Assistant Registrar (Acad)

Note:- The above scholar has qualified for the degree which will be awarded to him/her in the next convocation of the institute. This is only a provisional certificate and should not be treated as a Degree