NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

Sr. No 35098

Roll No : 6130079

Name : **Sandeep Sharma**

Father's Name : Satyavir Sharma

Programme : **Ph.D. COURSE WORK** **Department: Electrical Engineering**

Session : May/June, 2014

Sr. No.	Code No. & Subjects	CREDITS	GRADE
1	EE532T Power System Operation & Control	3.0	B
2	EE536T Advanced Power System Protection	3.0	A
Total No. of Credit & Grade Points		**6.0**	**51.0**
Semester Grade Point Average (SGPA)		**8.5000**	

Total Credits : 6.0

Semester Grade Point Average (SGPA) : 8.5000

Prof. Incharge (Exams)

Controller of Examinations

Place: Kurukshetra

Dated:

31 OCT 2014

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA

Sr. No ... 33174

Roll No : 6130079

Name : **Sandeep Sharma**

Father's Name : Satyavir Sharma

Programme : **Ph.D. COURSE WORK** **Department:** **Electrical Engineering**

Session : **Nov./Dec., 2013**

Sr. No.	Code No. & Subjects	CREDITS	GRADE
1	EE537T Power System Planning	3.0	A
2	EE543T Power System Operation in Restructured Environment	3.0	C
Total No. of Credit & Grade Points		**6.0**	**45**
Semester Grade Point Average (SGPA)		**7.5000**	

Total Credits : 6.0

Semester Grade Point Average (SGPA) : 7.5000

Prof. Incharge (Exams)

Controller of Examinations

Place: Kurukshetra

Dated: 21 AUG 2014

राष्ट्रीय प्रौद्योगिकी संस्थान, कुरुक्षेत्र
NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136 119 (HARYANA) INDIA

PBX No. 01744-233100, 233200
Gram : NITKU FAX : 01744-238050

Ref. No. EED/2019/1965 Dated 25.10.2019

THESIS SUBMISSION CERTIFICATE

It is to certify that Mr. Sandeep Sharma Ph.D. candidate, Regn. No. 2K13-NITK-PhD-6130079, Dt. 13.08.2013, Department of Electrical Engineering has submitted his Ph.D. thesis entitled, "Generalized Unified Power Flow Controller: Modelling, Optimisation and Applications in Power Systems" as a partial requirement for the award of Ph.D. Degree. His Ph.D. evaluation and Viva-Voce exam is pending.

25/10/19

Head of the Department

Sr. No. **Ph.D./2020/07** Roll No. **6130079**

NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA

PROVISIONAL DEGREE CERTIFICATE
DOCTOR OF PHILOSOPHY

This is to certify that Mr./Ms. **Sandeep Sharma**

son/daughter of Shri **Satyavir Sharma** has completed

his/her Ph.D. in the department of **Electrical Engineering**

on **05.08.2020**

is/Her Ph.D. Thesis title is **"Generalized Unified Power Flow Controller: Modelling, Optimisation and Applications in Power Systems"**

Prof.-In-Charge
(Examinations)

Dean (Academic)

Dated 13 AUG 2020

राष्ट्रीय प्रौद्योगिकी संस्थान, कुरुक्षेत्र

NATIONAL INSTITUTE OF TECHNOLOGY

KURUKSHETRA-136 119 (HARYANA) INDIA

PBX No. 01744-233100, 233200
Gram : NITKU FAX : 01744-238050

Ref. No. Acad/20/521 Dated 13-08-2020

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. Sandeep Sharma** was registered as Part-Time Ph.D. research scholar with **Regn. No. 2K13-NITK-Ph.D.-6130079, dated 13.08.2013** in the **Department of Electrical Engineering** at National Institute of Technology, Kurukshetra. He completed his Ph.D. Degree vide notification No. Ph.D.-2020/07 dated 05.08.2020. The above mentioned degree of Doctor of Philosophy maintains the minimum standards and procedure laid for the award of the degree as per the regulations of the Institute. NIT, Kurukshetra is autonomous Central Govt. Institute functioning direct administrative control of MHRD, Govt. of India. Further, it is certified that:-

(a) The candidate has successfully completed his course work.

(b) As per the Ph.D. ordinance, thesis was evaluated by two external examiners, one from within India and one from abroad.

(c) The candidate made two presentations based on his Ph.D. work in conference/seminar.

(d) The candidate published two research papers from his Ph.D. work in referred journals.

(e) Ph.D. viva-voce of the candidate was conducted in concerned Department and the notice to attend the viva-voce was circulated in all departments of the Institute.

The certificate is being issued on the request of the candidate.

13-08-2020

Dean (Academic)

क्र. सं. / Sr. No.: 22D0962

अनुक्रमांक / Roll. No.: 6130079



राष्ट्रीय प्रौद्योगिकी संस्थान

कुरुक्षेत्र

एतद्द्वारा **इलेक्ट्रिकल इंजीनियरिंग** में

डॉक्टर ऑफ फिलॉसफी

की उपाधि **संदीप शर्मा**

पुत्र/पुत्री श्री **सत्यवीर शर्मा** को प्रदान करता है, जिसके शोध विषय का शीर्षक

"सामान्यकृत एकीकृत विद्युत प्रवाह नियंत्रक: विद्युत प्रणालियों में मॉडलिंग, अनुकूलन और अनुप्रयोग" है ।

यह मुद्रित उपाधि **२९ नवंबर, २०२२** को प्रदान की गई।

National Institute of Technology

Kurukshetra

hereby confers the degree of

Doctor of Philosophy

in Electrical Engineering

on Sandeep Sharma

son/daughter of Shri Satyavir Sharma

The title of his/her thesis is "Generalized Unified Power Flow Controller: Modelling, Optimisation and Applications in Power Systems"

Given this day, the 29th November 2022 under the seal of the Institute

कुलसचिव (प्रभारी)
Registrar-in-charge

निदेशक व अध्यक्ष (कार्यवाहक), नियामक मण्डल
Director and Chairman (Actg.)
Board of Governors

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