

# University Of Petroleum & Energy Studies



*The Board of Governors of the University*

*On the Recommendation of the Academic Council*

*And by Virtue of the Authority Vested in Them*

*Have Conferred upon*

**ROHIT SHARMA**

*The Degree of Doctor of Philosophy  
(Chemical Engineering)*

*The Subject on which he / she presented a thesis for the Degree was:-*

**Agent Based Modeling and Experimental Studies on a Third Generation Closed Cycle for  
Improved Biogas Production**

*In Testimony whereof, the Seal of the University and*

*the Signature of its Officers are hereunto Affixed*

*on this 12th Day of June, 2017*



Aadhaar No. : 727865931144

VICE CHANCELLOR

PLACE: DEHRADUN

Mode of Delivery: Regular

*S.J. Chopra*  
CHANCELLOR



# पेट्रोलियम एवं ऊर्जा अध्ययन विश्वविद्यालय



विश्वविद्यालय का व्यवस्थापक मण्डल,  
विद्या परिषद् की अनुशंसा पर और  
उनमें निहित प्राधिकार के नाते

**रोहित शर्मा**

को

**कैमिकल इंजीनियरिंग में**

विद्या-वाचस्पति की उपाधि प्रदान करता है

उक्त उपाधि के लिए आपने निम्नांकित विषय पर शोध प्रबन्ध प्रस्तुत किया :-

एजेंट बेस्ड मॉडलिंग एंड एक्सपेरिमेंटल स्टडीज ऑन ए थर्ड जनरेशन क्लोज्ड सायकल फॉर  
इम्प्रूव्ड बायोगैस प्रोडक्शन

इसके प्रमाणस्वरूप विश्वविद्यालय की मुहर और

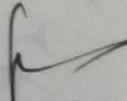
उसके अधिकारियों के हस्ताक्षर

नीचे अंकित किए जाते हैं।

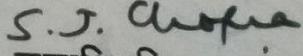
आज दिनांक १२ जून, २०१७



आधार नंबर : 727865931144

  
कुलपति

स्थान : देहरादून  
अध्ययन प्रणाली : नियमित

  
कुलाधिपति



# University Of Petroleum & Energy Studies

*The Board of Governors of the University*

*On the Recommendation of the Academic Council*

*And by Virtue of the Authority Vested in Them*

*Have conferred Upon*

**NEHA CHHABRA**

*The Degree of Doctor of Philosophy  
(Power Management)*

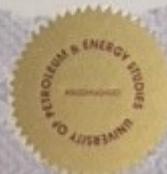
*The Subject on which he / she presented a thesis for the Degree was :-*

**Risk Identification And Assessment For Investment Decision Making  
In Small Hydro Power Projects of Uttarakhand**

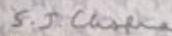
*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



PLACE DEHRADUN

  
CHANCELLOR





# पेट्रोलियम एवं ऊर्जा अध्ययन विश्वविद्यालय

विश्वविद्यालय का व्यवस्थापक मण्डल,

विद्या परिषद की अनुशंसा पर और

उनमें निहित प्राधिकार के नाते,

**गौतम श्रीवास्तव**

को

विपणन प्रबंधन में  
विद्या-वाचस्पति की उपाधि प्रदान करता है

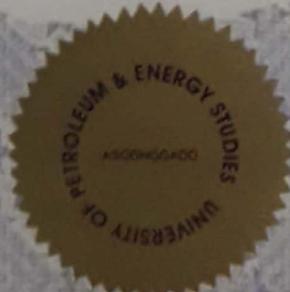
उक्त उपाधि के लिए आपने निम्नांकित विषय पर शोध प्रबन्ध प्रस्तुत किया :-

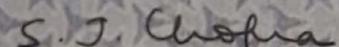
चार पहिया खण्ड के लिए सार्वजनिक क्षेत्र की इकाइयों के मोटर वाहन  
लुब्रिकेंट्स की ब्रांड पोजिशनिंग

इसके प्रमाणस्वरूप विश्वविद्यालय की मुहर और  
उसके अधिकारियों के हस्ताक्षर  
नीचे अंकित किए जाते हैं

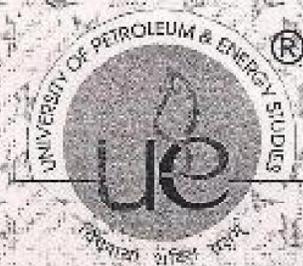
आज दिनांक १८ जून, २०१६

  
कुलपति



  
कुलाधिपति

स्थान: देहरादून



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*Have conferred Upon*

**BHANU PRATAP SINGH**

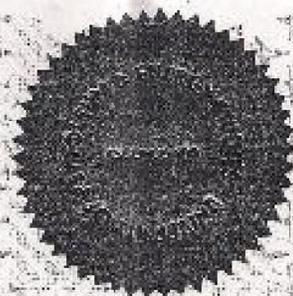
*The Degree of Doctor of Philosophy  
(Mechanical Engineering)*

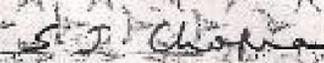
*The Subject on which he /she presented a thesis for the Degree was  
"Modeling and Simulation of Bio-Fueled Conventional Engine"*

*In Testimony whereof, the Seal of the University and  
the Signature of its Officers are hereunto Affixed*

*on this 20th Day of May, 2012*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE, DEHRADUN



# University Of Petroleum & Energy Studies

*The Board of Governors of the University*

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*Have conferred Upon*

**MOHAMMED YAQOOT**

*The Degree of Doctor of Philosophy  
(Power Management)*

*The Subject on which he / she presented a thesis for the Degree was :-*

***Assessment of Barriers to the Dissemination of  
Decentralized Renewable Energy Systems in Uttarakhand***

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE: DEHRADUN



# पेट्रोलियम एवं ऊर्जा अध्ययन विश्वविद्यालय

विश्वविद्यालय का व्यवस्थापक मण्डल,

विद्या परिषद् की अनुशंसा पर और

उनमें निहित प्राधिकार के नाते,

**मोहम्मद याकूब**

को

**विद्युत् प्रबंधन में  
विद्या-वाचस्पति की उपाधि प्रदान करता है**

उक्त उपाधि के लिए आपने निम्नांकित विषय पर शोध प्रबन्ध प्रस्तुत किया :-  
उत्तराखण्ड में विकेन्द्रीकृत अक्षय ऊर्जा प्रणालियों के प्रसार में  
आ रही बाधाओं का आंकलन

इसके प्रमाणस्वरूप विश्वविद्यालय की मुहर और  
उसके अधिकारियों के हस्ताक्षर  
नीचे अंकित किए जाते हैं

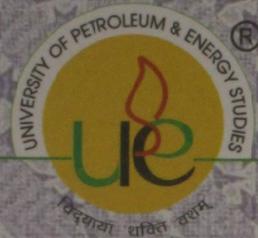
आज दिनांक १८ जून, २०१६

  
कुलपति



  
कुलाधिपति

स्थान: देहरादून



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*Have conferred Upon*

**DEBARUN DUTTA**

*The Degree of Doctor of Philosophy  
(Oil and Gas Management)*

*The Subject on which he / she presented a thesis for the Degree was :-*

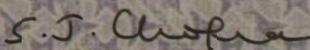
**Integrated Piping Engineering Design Management Model  
for Oil and Gas Industry in India**

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

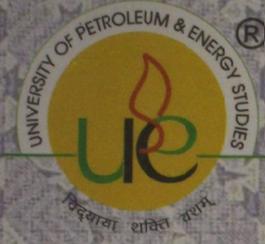
*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE, DEHRADUN



# पेट्रोलियम एवं ऊर्जा अध्ययन विश्वविद्यालय

विश्वविद्यालय का व्यवस्थापक मण्डल,

विद्या परिषद् की अनुशंसा पर और

उनमें निहित प्राधिकार के नाते,

**देबरुण दत्तो**

को

**तेल एवं गैस प्रबंधन में  
विद्या-वाचस्पति की उपाधि प्रदान करता है**

उक्त उपाधि के लिए आपने निम्नांकित विषय पर शोध प्रबन्ध प्रस्तुत किया :-

भारतीय तेल और गैस उद्योग के लिए एकीकृत पाइपिंग  
इंजीनियरिंग डिज़ाइन प्रबंधन मॉडल

इसके प्रमाणस्वरूप विश्वविद्यालय की मुहर और  
उसके अधिकारियों के हस्ताक्षर  
नीचे अंकित किए जाते हैं

आज दिनांक १८ जून, २०१६

  
कुलपति



  
कुलाधिपति

स्थान: देहरादून



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*Have conferred Upon*

**BALRAJ V**

*The Degree of Doctor of Philosophy  
(Material Science and Engineering)*

*The Subject on which he / she presented a thesis for the Degree was :-*

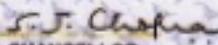
*Study on Weld Corrosion of X65QT Pipeline Steel*

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
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**NUNNA PRASANTHI KUMARI**

*The Degree of Doctor of Philosophy  
(Electronics Engineering)*

*The Subject on which he / she presented a thesis for the Degree was :-*

*Design and Characterization of Metamaterial Antenna for  
Mobile Handset Application*

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

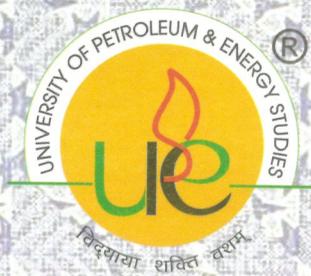
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**KOUSHICK SEN**

*The Degree of Doctor of Philosophy  
(Geo Science)*

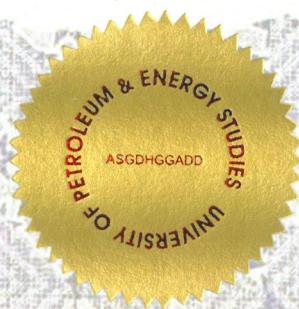
*The Subject on which he / she presented a thesis for the Degree was :-*

**Formation and Tectonic Evolution of Zildat Ophiolitic Melange,  
Indus Stature Zone, NW Himalaya, India**

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

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**POOJA AGARWALA**

*The Degree of Doctor of Philosophy  
(Chemical Engineering)*

*The Subject on which he / she presented a thesis for the Degree was :-*

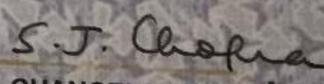
*Studies on Photovoltaic Devices Developed by Organic Dyes  
And Iodine Based Perovskite*

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

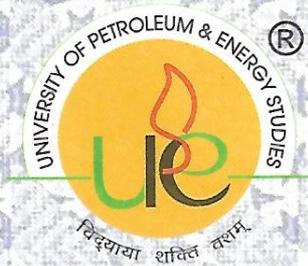
*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE: DEHRADUN



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**ADARSH KUMAR ARYA**

*The Degree of Doctor of Philosophy  
(Chemical Engineering)*

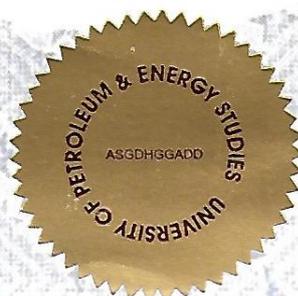
*The Subject on which he / she presented a thesis for the Degree was :-*

**Multiobjective Optimization of a Multinodal Gas  
Pipeline**

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

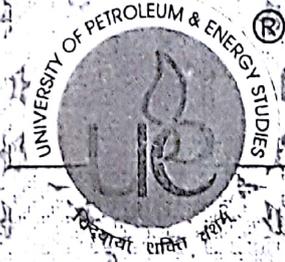
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**BHANU PRATAP**

*The Degree of Doctor of Philosophy  
(Geo Science)*

*The Subject on which he / she presented a thesis for the Degree was :-*

*Mass Balance of Dokriani Glacier, Central Himalaya: A Model in  
Response to Climate Fluctuation and Debris Cover*

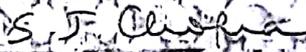
*In Testimony whereof, the Seal of the University and the  
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*on this 18th Day of June, 2016*

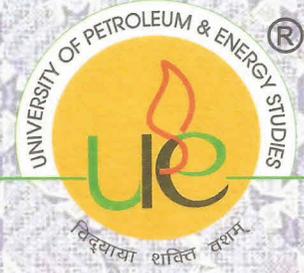
*Soff attested  
Receipt  
14/10/2017*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE, DEHRADUN



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*Have conferred Upon*

**G GOURIPATI SASTRY**

*The Degree of Doctor of Philosophy  
(Mechanical Engineering)*

*The Subject on which he / she presented a thesis for the Degree was :-*

**Development and Analysis of Pull Control Systems for  
Effective Management of Production Systems**

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

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**MADHU SHARMA**

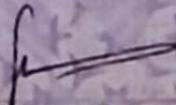
*The Degree of Doctor of Philosophy  
(Power System Engineering)*

*The Subject on which he / she presented a thesis for the Degree was -*

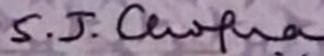
**Improvement in Efficiency of Solar Photovoltaic Power  
System Through Heat Extraction**

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

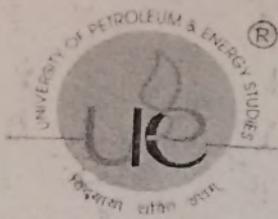
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**MALLIKA MISHRA**

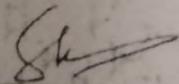
*The Degree of Doctor of Philosophy  
(Chemistry)*

*The Subject on which he / she presented a thesis for the Degree was :-*

*Study and Development of "Recyclable and reusable silica based  
organic-inorganic hybrid catalyst" A concept of Green Chemistry*

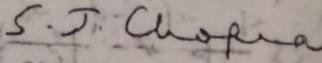
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Have conferred Upon*

**SUSHABHAN CHOUDHURY**

*The Degree of Doctor of Philosophy  
(Electronics Engineering)*

*The Subject in which he / she presented a thesis for the Degree was -*

*Smart Control of Environmental Parameters for Rural  
Development Using Wearable Computing*

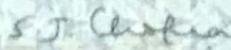
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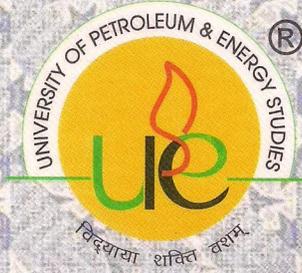
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*Have conferred Upon*

**ABHISHEK SHARMA**

*The Degree of Doctor of Philosophy  
(Mechanical Engineering)*

*The Subject on which he / she presented a thesis for the Degree was :-*

***Evaluation of Performance and Emission Parameters of CI Engine  
Fuelled with Polanga Biodiesel Blends Using ANN Modelling***

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE: DEHRADUN

Enrollment No. 500024039

Prepared by Sudhansu

Verified by Abhottacharya.



# पेट्रोलियम एवं ऊर्जा अध्ययन विश्वविद्यालय

विश्वविद्यालय का व्यवस्थापक मण्डल,

विद्या परिषद् की अनुशंसा पर और

उनमें निहित प्राधिकार के नाते,

**रंजन मिश्रा**

को

**इलेक्ट्रॉनिक्स अभियांत्रिकी में  
विद्या-वाचस्पति की उपाधि प्रदान करता है**

उक्त उपाधि के लिए आपने निम्नांकित विषय पर शोध प्रबन्ध प्रस्तुत किया :-

उपग्रह संचार हेतु अत्यन्त विस्तृत बैंड युक्त विशिष्ट  
ऐन्टेना की संरचना

इसके प्रमाणस्वरूप विश्वविद्यालय की मुहर और

उसके अधिकारियों के हस्ताक्षर

नीचे अंकित किए जाते हैं

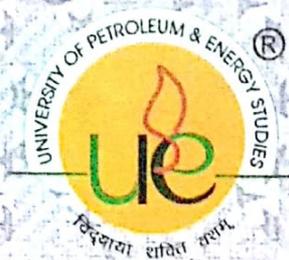
आज दिनांक १८ जून, २०१६

  
कुलपति



  
कुलाधिपति

स्थान: देहरादून



# University Of Petroleum & Energy Studies

*The Board of Governors of the University*

*On the Recommendation of the Academic Council*

*And by Virtue of the Authority Vested in Them*

*Have conferred Upon*

**RANJAN MISHRA**

*The Degree of Doctor of Philosophy  
(Electronics Engineering)*

*The Subject on which he / she presented a thesis for the Degree was :-*

*Design of Specific Ultra Wide Band Antenna for Satellite  
Communication*

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE: DEHRADUN



# University Of Petroleum & Energy Studies

*The Board of Governors of the University*

*On the Recommendation of the Academic Council*

*And by Virtue of the Authority Vested in Them*

*Have conferred Upon*

**N RAJKUMAR**

*The Degree of Doctor of Philosophy  
(Law)*

*The Subject on which he / she presented a thesis for the Degree was :-*

*Production Sharing Contract in India: Its effectiveness in  
the Exploitation of Hydrocarbon Resources*

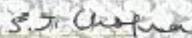
*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are herewith Affixed*

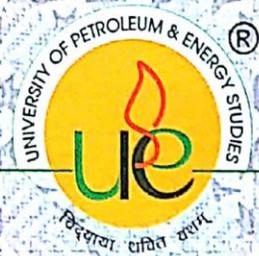
*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



PLACE: BEHRADUN

  
CHANCELLOR



# University Of Petroleum & Energy Studies

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*On the Recommendation of the Academic Council*

*And by Virtue of the Authority Vested in Them*

*Have conferred Upon*

**RABINDRA KUMAR PADHAN**

*The Degree of Doctor of Philosophy  
(Chemistry)*

*The Subject on which he / she presented a thesis for the Degree was :-*

***Improved Quality Bitumen as a Binder in Flexible Pavement  
through New Additives and In-Situ Polymerization***

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
CHANCELLOR

PLACE: DEHRADUN



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*On the Recommendation of the Academic Council*

*And by Virtue of the Authority Vested in Them*

*Have conferred Upon*

**AMIT KUMAR MONDAL**

*The Degree of Doctor of Philosophy  
(Electronics, Instrumentation & Control Engineering)*

*The Subject on which he / she presented a thesis for the Degree was :-*

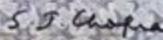
*Design and Development of Autonomous Manipulator for  
Solar Photovoltaic Cleaning*

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
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*On the Recommendation of the Academic Council*

*And by Virtue of the Authority Vested in Them*

*Have conferred Upon*

**MEENAKSHI TOMAR**

*The Degree of Doctor of Philosophy  
(Marketing Management)*

*The Subject on which he / she presented a thesis for the Degree was :-*

***Adopting Social Media in the Integrated Marketing Communication  
Process by Automotive Lubricant Companies in India***

*In Testimony whereof, the Seal of the University and the  
Signature of its Officers are hereunto Affixed*

*on this 18th Day of June, 2016*

  
VICE CHANCELLOR



  
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PLACE: DEHRADUN