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न्द्रीय विश्वविद्यालय) CENTRAL UNIVERSITY)

मणिनगर, अगरतला, त्रिपुरा, भारत yamaninagar, Agartala, Tripura, INDIA Pin - 799022



फोन Phone: (0381) 237 4801

237 9002 237 9003

237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355

237 4804

e-mail : tuoffice@tripurauniv.in website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Voltage Stability Analysis using Bus Stability Indicator in power transmission line" submitted by Belgine Debbarma to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the degree of Master of Technology.

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फोन Phone: (0381) 237 4801 237 9002

237 9003 237 9004

237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail : tuoffice@tripurauniv.in

website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Voltage Stability Analysis of Power System Network by Using Thevenin's Equivalent Circuit" submitted by Henna Debbarma and Rebecca Tripura to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the degree of M. Tech.

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मणिनगर, अगरतला, त्रिपुरा, भारत yamaninagar, Agartala, Tripura, INDIA I Pin - 799022



फोन Phone: (0381) 237 4801

237 9002 237 9003

237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355

237 4804 iil : tuoffice@tripurauniv in

e-mail : tuoffice@tripurauniv.in website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the work embodied in this project entitled "Voltage Security Assessment of Radial Distribution System using Artificial Neural Network (ANN) with Reduction of Input by k-means Clustering Algorithm" Submittedby "SANGHITA BAIDYA" and "DIPANKAR SUTRADHAR" to the Department of Electrical Engineering of Tripura University, Suryamaninagar-799022, Tripura, India has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology in Electrical Engineering.

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र्यमणिनगर, अगरतला, त्रिपुरा, भारत uryamaninagar, Agartala, Tripura, INDIA ान Pin - 799022



फोन Phone: (0381) 237 4801

237 9002 237 9003

237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail

: tuoffice@tripurauniv in

website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Genetic Algorithm based Optimal placement of STATCOM for Voltage Stability Improvement of Power System" submitted by Sankha Subhra Debbarma and Satyajit Das to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the degree of Master of Technology.

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निणनगर, अगरतला, त्रिपुरा, भारत ramaninagar, Agartala, Tripura, INDIA Pin - 799022



फोन Phone: (0381) 237 4801 237 9002 237 9003 237 9004 237 9024 फैक्स Fax : (0381) 237 4802 237 4803 237 5355

e-mail : tuoffice@tripurauniv.in website : www.tripurauniv.in

APPROVAL SHEET

Examiner

This is to certify that the work embodied in this project entitled "Impact Assessment of Plug In Electric Vehicle Charging Station Load on Voltage Stability of a Smart Grid" Submitted by "Mr. CHIRANJIT DEBNATH" and "Mr. SANJOY DEBNATH" to the Department of Electrical Engineering of Tripura University, Suryamaninagar-799022, Tripura, India has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Master of Technology in Electrical Engineering.

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त्रपुरा विश्वविद्यालय RIPURA UNIVERSITY

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प्रोम Phone: (0381) 237 4801

237 9002 237 9003

237 9004 237 9024

किस्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail :

: tuoffice@tripurauniv.in

website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work embodied in this project entitled "Active Power Loss Minimization of Power Transmission System Using Particle Swarm Optimization and Artificial Neural Network (ANN-PSO)" submitted by "PAMEL MAJUMDER" and "PRIYANKA DAS" to the Department of Electrical Engineering of Tripura university, Suryamaninagar-799022, Agartala, Tripura, India has been examined and evaluated.

The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the degree of Master of Technology in Electrical Engineering.

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पुरा विश्वविद्यालय IPURA UNIVERSITY

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फोन Phone: (0381) 237 4801 237 9002 237 9003 237 9004 237 9024 फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail : tuoffice@tripurauniv.in website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Hybrid method for placement and sizing of DG using stability index and ant lion optimization algorithm for minimization of loss" submitted by Subhadeep Deb and Binoy Das to the Department of Electrical Engineering of Tripura university, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulation of Tripura university and qualifies to be accepted in partial fulfillment of the requirement for the Thesis Report Interim (Thesis Phase: II) of 4th semester, Master of Technology (EE).

Supervisor

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सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत Suryamaninagar, Agartala, Tripura, INDIA पिन Pin - 799022



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237 9002 237 9003

237 9004 237 9024

फेक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

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; tuoffice@tripurauniv in

website : www.tripurauniv.in

APPROVAL SHEET

This is to certify the work embodied in this project entitled "Improved Demand Response with Particle Swarm Optimization and Symbiotic organism Search" submitted by "SUPARNA DEY" and "MONALISA DASGUPTA" to the Department of Electrical Engineering of Tripura University, Suryamaninagar-7990022, Tripura, India has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Master of Technology in Electrical Engineering.

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Supervisor

Coordinator of the Department

त्रिपुराविश्वविद्यालय/ TRIPURA UNIVERSITY (केन्द्रीयविश्वविद्यालय/A Central University) सुचनाजे चो जिन्ही विभाज / DEPARTMENT OF LECTRICAL ENGINEERING सुर्यमणिनगर, अगरतला, त्रिपुरा (प.)/Suryamaninagar, Agartala, Tripura(W.), चिन/PIN - 799022, भारत/INDIA. दूरभाष/ Phone: 0381-2379224 फेक्स/Fax: +91 381 237 4802 ई-मेल/Email: hod_ee@tripurauniv.in वेबसाइट/Website: www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Demand Side Management Using Genetic Algorithm And Particle Swarm Optimization Techniques" submitted by Arup Ratan Das to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Master of Technology.

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द्रशाष/ Phone: 0381-2379224 फेन्स/Fax: +91 381 237 4802 ई-मेल/Email: hod_ee@tripurauniv.in

वैत्रसाद्ट/Website: www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Load scheduling optimization for smart grid using firefly algorithm" submitted by AlJAK JAMATIA (Enrollment No: 1806390014) and SHINGLI JAMATIA (Enrollment No: 1806390004) to the Department of Electrical Engineering of Tripura University, Suryamaninagar, West Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology.

Supervisor

Head of the Department

त्रिपुरा विश्वविद्यालय/ TRIPURA UNIVERSITY (केन्द्रीय विश्वविद्यालय / A Central University) DEPARTMENT OF ELECTRICAL ENGINEERING Suryamaninagar, Agartala, Tripura(W.),PIN -799022,IND...

APPROVAL SHEET

This is to certify that the project work entitled "Load Frequency Control of an interconnected power system by cascaded controller using optimization technique" submitted by Rajbee Dey and Shuvam Majumder to the department of Electrical Engineering of Tripura University, Suryamaninagar, West Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Master of Technology.

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द्रमाष/ Phone: 0381-2379224 फैक्स/Fax: +91 381 237 4802 ई-मेल/Email: hod_ee@tripurauniv.in

वेबसाइट/Website: www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Optimal power flow solution using multi-objective dragonfly algorithm" submitted by Barnali Chanda and Susmita Das to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Master of Technology.

Examiner

Supervisor

Head of the Department

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(केन्द्रीय विश्वविद्यालय) (A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत Suryamaninagar, Agartala, Tripura, INDIA

पिन Pin - 799022



फोन Phone: (0381) 237 4801 237 4803

237 5355

237 9004 237 4804

237 9005

फैक्स Fax : (0381) 237 4802

237 4804

tuoffice@tripurauniv in e-mail www.tripurauniv.in

website

CERTIFICATE

This is to certify that this Thesis (Phase-II) entitled "Design of an Efficient Inverter with Reduced Number of Switches" is submitted in partial fulfillment of requirement for the award of degree of Master of Technology in Electrical Engineering, by Miss Moumita Saha (1409010001) & Miss Priyanka Debbarma (1409010002), in the Department of Electrical Engineering, Tripura University (A Central University), Survamaninagar, Tripura, India.

Mrs. Sangita Das Biswas

(Guide and Supervisor) Assistant Professor, Electrical Engineering Department, Tripura University.

Internal Examiner

External Examiner

पुरा विश्वविद्यालय NPURA UNIVERSITY

ज्रित्रीय विश्वविद्यालय) CENTRAL UNIVERSITY)

मणिनगर, अगरतला, त्रिपुरा, भारत yamaninagar, Agartala, Tripura, INDIA Pin - 799022



फोन Phone: (0381) 237 4801 237 9002

237 9003 237 9004

237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail :

: tuoffice@tripurauniv.in

website : www.tripurauniv.in

APPROVAL

This is certify that the project work entitled "Development of VVVF Control Method for Wind Generator Connected to Smart Grid" submitted by Tilak Das and Santanu Bhattacharjee to the department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulations of Tripura University and Qualifies to be accepted in partial fulfillment of the requirement for the **Master of Technology**.

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मिणिनगर, अगरतला, त्रिपुरा, भारत yamaninagar, Agartala, Tripura, INDIA । Pin - 799022



फोन Phone: (0381) 237 4801

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237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 4803237 5355

237 4804 : tuoffice@tripurauniv.in

website : www.tripurauniv.in

e-mail

APPROVAL SHEET

This is to certify that the work embodied in this thesis entitled, "MODELING, SIMULATION AND ANALYSIS OF DC & AC OUTPUTS USING HYBRID PV AND WIND POWER SYSTEM FOR REMOTE AND HILLY AREAS." Submitted by "PRITAM DEBNATH" and "SATYAM DAS" to the Department of Electrical Engineering of Tripura University, Suryamaninagar-799022, Tripura, India has been examined and evaluated.

The thesis work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology in Electrical Engineering.

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मिणिनगर, अगरतला, त्रिपुरा, भारत yamaninagar, Agartala, Tripura, INDIA

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फोन Phone: (0381) 237 4801 237 9002

237 9003 237 9004

237 9024 फैक्स Fax : (0381) 237 4802

237 4803 237 5355

237 4804 -mail : tuoffice@tripurauniv.in

e-mail : tuonice@mparasi website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Modelling & Implementation of Advanced Electronic Circuit Breaker Technique for Protection" submitted by Rajesh Debnath and Tushar Kanti Das to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Master of Technology.

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TRIPURA UNIVERSITY
(A Central University)
DEPARTMENT OF ELECTRICAL ENGINEERING
Suryamaninagar, Agartala, Tripura(W)
PIN – 799022, INDIA

Phone: 0381-2379224
Fax: +91 381 237 4802
Email: hod ee a tripurauniy in
Website: www.tripurauniy in

APPROVAL SHEET

This is to certify that the project work entitled "Design and Simulation of Arduino & Filter based health monitoring system Using IoT for COVID-19 Patients" submitted by Ankit Kishore Sen to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted for the award of the degree of Master of Technology.

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फोन Phone: (0381) 237 4801 237 9002

237 9003 237 9004

237 9024 फेक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

: tuoffice@tripurauniv.in e-mail

website : www.tripurauniv.in

APPROVALSHEET

This is to certify that the project work entitled "Modeling, Simulation and Monitoring of a two area system using a Phasor Measurement Unit" submitted by Priyanka Debbarma and Sunpaul Debbarma to the Department of Electrical Engineering of Tripura university, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura university and qualifies to be accepted in partial fulfillment of the requirement for the Thesis Report Interim (Thesis Phase: II) of 4th semester, Master of Technology (EE).

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न्द्रीय विश्वविद्यालय) CENTRAL UNIVERSITY)

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फोन Phone: (0381) 237 4801

237 9002 237 9003

237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail : tuoffice@tripurauniv.in website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Modeling and Simulation of Solar Pumping System Using Hybrid Energy for Remote and Hilly Area of North East, India" submitted by Bishal Biswadutta Jena to the Department of Electrical Engineering, Tripura University, Survamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology in Electrical Engineering.

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Supervisor
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TRIPURA UNIVERSITY

(A CENTRAL UNIVERSITY)

Suryamaninagar, Agartala Tripura INDIA PIN - 799**199**



Phone : (0381) 237 4801 237 5454

> 237 4805 237 5355

Fax : (0381) 237 4802

website: www.tripurauniversity.in

237 4807 : tripurauniversity@rediffmail.com

APPROVAL SHEET

This is to certify that the project work entitled "OPTIMAL PLACEMENT OF PHASOR MEASUREMENT UNIT IN A TRANSMISSION LINE" submitted by Daibat Majumdar and Subir Sutradhar to the department of Electrical Engineering of Tripura University (A Central University), Suryamaninagar, West Tripura has been examined and evaluated.

The interim thesis work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology in Electrical Engineering.

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Supervisor
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(केन्द्रीय विश्वविद्यालय) (A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत Suryamaninagar, Agartala, Tripura, INDIA पिन Pin - 799022



फोन Phone: (0381) 237 4801 237 4803

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237 9004 237 4804

237 9005

फैक्स Fax : (0381) 237 4802

237 4804

e-mail

tuoffice@tripurauniv.in

website

www.tripurauniv.in

CERTIFICATE OF APPROVAL

This is to certify that the Thesis (Phase II) Report on "Controlling UPFC by Full Order State Feedback Controller" has been submitted by Susmita Paul (Roll no. 1409010003) & Mukut Datta (Roll no. 1409010010) under the guidance of Dr. Champa Nandi, Assistant Professor, Department of Electrical Engineering, Tripura University during the academic session of year 2015-16 in the partial fulfillment of the award of Master of Technology in Electrical Engineering under Tripura University (A Central University).

Thesis Guide & Supervisor

Dr. Champa Nandi

Assistant Professor,

Department of Electrical Engineering,

Tripura University (A Central University)

Internal Examiner(s)

External Examiner(s)

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(केन्द्रीय विश्वविद्यालय) (A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत Suryamaninagar, Agartala, Tripura, INDIA पिन Pin - 799022



TET-I Phone: (0381) 237 4801

237 9003 237 9004

237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail : tuoffice@tripuraul website : www.tripurauniv.i

APPROVAL

This is certify that the project work entitled "Development of smart metering system for automatic water level control and measurement of water consumption" submitted by Durbanjali Das and ParthaPratimChakraborty to the department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulations of Tripura University and Qualifies to be accepted in partial fulfillment of the requirement for the **Master of Technology**.

Examiner

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Head of the Department

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Pin - 799022

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फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail

: tuoffice@tripurauniv.in

website : www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Intelligent Controller Design for Hybrid Solar Hydroelectric Power Plant" submitted by Brahma Nand Thakur and Rikhit Swargiary to the Department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology.

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naninagar, Agartala, Tripura, INDIA गनगर, अगरतला, त्रिपुरा, भारत in - 799022



फेक्स Fax

कोन Phone: (0381) 237 4801 237 9002

9003 237

237 4804 : (0381)

tuoffice@tripurauniv.in e-mail

www.tripurauniv.in website

APPROVAL SHEET

This is to certify that the project work entitled "Carbon Monoxide Level Detection Tripura and Control in a GPS Enable Vehicle" submitted by Richa Debnath of Enginecring University, Suryamaninagar, Tripura has been examined and evaluated. Pragnaleena Debroy to the department of Electrical

qualifies to be accepted in partial fulfilment of the requirement for the Master of The project work has been prepared as per the regulation of Tripura University and **Technology**.

Head of the Department Place: Supervisor Examiner

IPURA UNIVERSITY पुरा विश्वविद्यालय

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237 4803 237 4802 237 (0381). . फेक्स Fax

237 9024

tuoffice@tripurauniv in 237 4804

www.tripurauniv.in website e-mail

APPROVAL SHEET

grid controller design". Submitted by Bijaya Saha and Jaya Saha to the Department of Electrical This is to certify that the project work entitled "Renewable energy management through micro-Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Master of Technology.

Examiner

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पुरा विश्वविद्यालय IPURA UNIVERSITY

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Supervisor

निप्रा विश्वविद्यालय Tripura University

Pin - 799022



'77- Phone: (0381) 237 4801

237 9004 237 9024

फैक्स Fax : (0381) 237 4802

237 5355

237 4804

: tuoffice@tripurauniv in e-mail

www.tripurauniv.in website

APPROVAL SHEET

This is to certify that the project work entitled "Design of Automatic Charging Controller for PV-Grid Integrated EV Charging Station" submitted by Salfa Debbarma and Mrinmoyee Kalai to the Department of Electrical Engineering of Tripura University, Suryamaninagar, West Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfilment of the requirement for the Thesis Report Final (Thesis Phase II) of 4th Semester, M.Tech (EE).

Examiner

22.05.19 विद्युत अभियांत्रिकी विमान Department of Electrical Engine

RIPURA UNIVERSITY मुप्रा विश्वविद्यालय

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tuoffice@tripurauniv in www.tripurauniv.in website e-mail

APPROVAL SHEET

This is to certify that the project work entitled "An Automatic Control and Saha to the Department of Electrical engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in partial fulfillment of requirement for the Thesis Report Final (Thesis Protection System for Islanded Microgrids " submitted by Moumita Chowdhury Phase II) of 4th Semester, M.Tech (EE). Debasmita and

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Supervisor	2

28 12 (100 100) 9 Lockid Line Holy Department of Electrical Engine العصمة العما العمام द्रमण्या रिश्वायद्यालय Tribura University

Place: Suryamanina

Examiner

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1814 Phone: (0381, 237-4861

फेक्स Fax : (0381) 237 4802

237 4804

e-mail : tuoffice@tripuraunily in

website www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Energy Management System for Grid Connected Hybrid Power Plant with Storage Facility" submitted by Samrat Chakraborty to the Department of Electrical Engineering, Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology in Electrical Engineering.

22.05.19 Head of the Department Date: HEART Head Cook dinatoh

Place: Department of Electrical Engine

IPURA UNIVERSITY पुरा विश्वविद्यालय

SENTRAL UNIVERSITY) ऱ्रीय विश्वविद्यालय)

amaninagar, Agartala, Tripura, INDIA गणिनगर, अगरतला, त्रिपुरा, भारत Pin - 799022



han Fax

대극 Phone: (0381) 237 4801

237 4803

: (0381) 237 4802

237 4804

tuoffice@tripurauniv.in www.tripurauniv.in website e-mail

APPROVAL SHEET

₽ University, Suryamaninagar, Tripura has been examined and evaluated. The project work has been prepared as per the regulations of Tripura University and qualifies to be accepted in Bhattacharjee and Susmita Reang to the Department of Electrical engineering of Tripura of an Intelligent Energy Somudeep partial fulfillment of requirement for the Thesis Report Final (Thesis Phase II) of submitted by Management Controller for the Hybrid Power Plant" This is to certify that the project work entitled "Design Semester, M.Tech (EE)

Examiner

Supervisor

31/5/18 Date:

Tripusa Place:

विपुरा विश्वविद्यालय/ TRIPURA UNIVERSITY (केन्द्रीय विश्वविद्यालय / A Central University) सूचनापीद्योगिकीविज्ञाग/ DEPARTMENT OF LECTRICAL ENGINEERING सूर्यमणिजगर, अगरतला. विपुरा(प.) / Suryamaninagar, Agartala, Tripura(W.), पिन/PIN – 799022, आरत/INDIA.

द्रभाष/ Phone: 0381-2379224 फेक्स/Fax: +91 381 237 4802 ई-मेल/Email: hod_ee@tripurauniv.in वेबसाइट / Website: www.tripurauniv.in

APPROVAL SHEET

This is to certify that the project work entitled "Solar Energy Harvesting and Optimization with Solar Panels" submitted by Rubi Debbarma (Enrollment No: 1806390001) to the Department of Electrical Engineering of Tripura University, Suryamaninagar, West Tripura has been examined and evaluated.

The project work has been prepared as per the regulation of Tripura University and qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology.

Examiner
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Supervisor
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Head of the Department
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Date: 19.10.20
Place: Tripura MATIVE resisty. CHAMPA (IIC) H.O.D. (IIC) Department of E.E. Tripura University.

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qualifies to be accepted in partial fulfillment of the requirement for the Master of The project work has been prepared as per the regulation of Tripura University and The report entitled "Intelligent Controller Design for Clean Energy Generation". submitted by Utturn Day and Narbani Mandal to the Department of Electrical Engineering. Tripura University. Survamaninagar, Tripura, has been examined and evaluated Technology in Electrical Engineering.

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Date 1809, 2020 Place Tripuno University, Agambala

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(केन्द्रीय विश्वविद्यालय) (A CENTRAL UNIVERSITY)

सर्यमणिनगर, अगरतला, त्रिपुरा, भारत Suryamaninagar, Agartala, Tripura, INDIA पिन Pin - 799022



फोन Phone: (0381) 237 4801 237 9002

237 9004

237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355

237 4804

: tuoffice@tripurau e-mail

: www.tripurauniv. website

APPROVAL

This is certify that the project work entitled "Development of smart metering system for automatic water level control and measurement of water consumption" submitted by Durbanjali Das and ParthaPratimChakraborty to the department of Electrical Engineering of Tripura University, Suryamaninagar, Tripura has been examined and evaluated.

The project work has been prepared as per the regulations of Tripura University and Qualifies to be accepted in partial fulfillment of the requirement for the Master of Technology.

Examiner

Supervisor

Head of the Department

Date...30.05.17

Place. Tripur lewversty

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गनगर, अगरतला, त्रिपुरा, भारत naninagar, Agartala, Tripura, INDIA in - 799022



12,1-1 Phone: (0381) 237 4801

237 9003 237 9004

237 9024

फैक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail: tuoffice@tripurauniv in

website : www.tripurauniv.in

Approval Sheet

The thesis/dissertation/report entitled "Efficient Smart Home Automation System" by Moushumi Das and Uttam Das are approved for the degree of Master of Technology in Electrical Engineering.

Examiners:

Dans 30/05/17

Supervisor

Dr. Champa Nandi

H.O.D of electrical engineering,

Tripura University