

M.Tech – Electrical Power Systems

A Project Report on

**ANALYSIS OF ISLANDING
DETECTION**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTHAPURAMU**

in partial fulfillment of requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**
by

**ALUGANTI SAIPRIYA
(18121D0701)**

Under the esteemed guidance of

Dr. I. KUMARA SWAMY, M.Tech., Ph.D.,

**ASSOCIATE PROFESSOR,
DEPARTMENT OF EEE, SVEC.**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(Autonomous)**

(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517102.

INDIA.

2018 – 2020.

*A Project Report
on*

**VOLTAGE REGULATION OF FC-UC
BASED HYBRID ELECTRIC VEHICLE
USING BACKSTEPPING SLIDING
MODE CONTROL**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTHAPURAMU**

in partial fulfillment of requirements for the award of the degree of

MASTER OF TECHNOLOGY

in

ELECTRICAL POWER SYSTEMS

by

**BAGGU HARSHAKIRAN
(18121D0702)**

Under the esteemed guidance of

**Mr. M. MANOHARA, M.Tech, (Ph.D.), MISTE, MISCA,
ASSOCIATE PROFESSOR,
DEPARTMENT OF EEE.**



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

*(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517102.*

2018 – 2020.

A Project Report on

**ENERGY CONSERVATION OPPORTUNITIES
IN MASS COOKING SYSTEMS**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTAPURAMU**

in partial fulfillment of the requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**

by

**BANDI KUMARI
(18121D0703)**

Under the esteemed guidance of

Mr. K. Leleedhar Rao, M. Tech., (Ph.D)
**ASSISTANT PROFESSOR,
DEPARTMENT OF EEE**



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517 102
2018-2020

A Project Report
on
**REGULATION OF LOAD FREQUENCY
CONTROL IN MULTI-AREA POWER SYSTEM**

submitted to
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTHAPURAMU
in partial fulfilment of requirements for the award of the degree of

MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS
by

C.SRI HARSHA
(18121D0705)

Under the esteemed guidance of

Dr. N. M.G. KUMAR
Professor,
Department of EEE



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(Autonomous)

(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517102.
2018 – 2020.

A Project Report on

**ANALYSIS OF CYBER SECURITY
THROUGH BIG DATA ANALYTICS IN
POWER SYSTEM WITH GIPFC UNDER
CONTINGENCY CONDITION**

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR, ANANTAPURAMU**

*in partial fulfillment of the requirements for the award of the degree
of*

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**

by

**DURGAM PRAVALLIKA
(18121D0706)**

Under the esteemed guidance of
Dr. D. Suresh Babu M. Tech., Ph.D.
**ASSOCIATE PROFESSOR,
DEPARTMENT OF EEE, SVEC**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE**
(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517 102
2018-2020

A Project report on

**ALLOCATION AND SIZING OF CAPACITORS FOR MINIMUM
SYSTEM LOSSES IN DISTRIBUTION NETWORK VIA SALP SWARM
OPTIMIZATION ALGORITHM**

Submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTHAPURAMU**

in partial fulfillment of requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**

by

**GUNDLAPALLI GAYATHRI
(18121D0707)**

Under the esteemed guidance of

**Mr. P. VENKATESH, M.Tech, (Ph.D.),
ASSISTANT PROFESSOR,
DEPARTMENT OF EEE,SVEC**



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)**

(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517102.
INDIA.

2018 – 2020

A Project Report
On

**POWER QUALITY ENHANCEMENT USING D-STATCOM WITH
AFFINE PROJECTION ALGORITHM**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTAPURAMU**

in partial fulfillment of the requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**

by

**KOTA SIVANI
(18121D0709)**

Under the esteemed guidance of
Mr. CH.KUMAR REDDY, M. Tech., (Ph.D)
ASSISTANT PROFESSOR,
DEPARTMENT OF EEE



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517 102
2018-2020

A Project Report on

**ANALYSIS OF COST BY MITIGATING THE
POWER QUALITY PROBLEMS AT
DISTRIBUTION SYSTEM USING
OPTIMIZATION TECHNIQUE**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTHAPURAMU**

in partial fulfillment of requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in**

**ELECTRICAL POWER SYSTEMS
by**

**MUCHUGUTTA RAMALINGA REDDY
(18121D0710)**

Under the esteemed guidance of

Mr. U. KAMAL KUMAR, M.Tech., (Ph.D.)

**ASSISTANT PROFESSOR,
DEPARTMENT OF EEE**



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SREE VIDYANIKETHAN ENGINEERING COLLEGE

**(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517102.**

2018 – 2020

A Project Report on

**Performance of ANFIS Controller for stand-alone Hybrid
Distributed Generation system**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTHAPURAMU**

in partial fulfillment of requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**
by

**PAYYAVULA SUSMITHA
(18121D0711)**

Under the esteemed guidance of

Dr. S. FAROOK, *M.Tech., Ph.D.*

**ASSOCIATE PROFESSOR,
DEPARTMENT OF EEE, SVEC.**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(Autonomous)**

(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517102.
INDIA.

2018 – 2020.

A Project Report on
**AN IMPROVED POWER SHARING
TECHNIQUE IN ISLANDED MODE OF
SINGLE MICROGRID**

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANATAPUR, ANANTAPURAMU

in partial fulfilment of requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**

by

PUTTURU VENKATA MURALI KRISHNA
(18121D0712)

Under the esteemed guidance of

Dr .G.Sreeramulu Mahesh, Ph.D.,
Associate Professor,
DEPARTMENT OF EEE, SVEC.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517 102

2018-2020

A Project Report On

**POWER QUALITY IMPROVEMENT BY UPQC WITH SOFT
COMPUTING TECHNIQUES**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTAPURAMU**

in partial fulfillment of the requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**

By

SUKKA NAVATHA
(18121D0713)

Under the guidance of

Dr. S.Hemachandra, M.Tech., Ph.D.,
Professor
DEPARTMENT OF EEE, SVEC



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(An autonomous institution affiliated to JNTUA, Anantapuramu)
SreeSainath Nagar, Tirupati – 517 102
2018-2020

A Project Report
On
**INTEGRATION AND CONTROL OF
RENEWABLE ENERGY SOURCES
USING MULTI-AGENT SYSTEM IN
RAILWAY SUBSTATION**

submitted to
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR,
ANANTHAPURAMU
in partial fulfilment of requirements for the award of the degree of

MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS

by
ROSHAN SHARMA
(18121D0715)

Under the esteemed guidance of
Mr. T. KOSALESWARA REDDY, M.Tech.,(Ph.D)
ASSISTANT PROFESSOR



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(Autonomous)
(An autonomous institution affiliated to JNTUA, Anantapuramu)
Sree Sainath Nagar, Tirupati – 517102.
2018 – 2020.

A Project Report

On

**CONTROL STRATEGIES OF VIRTUAL SYNCHRONOUS
GENERATOR FOR IMPROVING FREQUENCY
STABILITY OF AN ISLANDED HYBRID MICROGRID**

submitted to

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,
ANANTHAPURAMU**

in partial fulfillment of requirements for the award of the degree of

**MASTER OF TECHNOLOGY
in
ELECTRICAL POWER SYSTEMS**

by

**UMESH CHAUDHARY
(18121D0716)**

Under the esteemed guidance of

Mr. G. RAVINDRA, M. Tech., (Ph. D),

ASSISTANT PROFESSOR,

DEPARTMENT OF EEE, SVEC.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

(Affiliated to JNTU Anantapur, Approved by AICTE)

Accredited by NBA, NAAC with 'A' grade)

Sree Sainath Nagar, A. Rangampet, Near Tirupati – 517102. A.P.

INDIA

2018 – 2020