**Dr. Vithalrao Vikhe Patil College of Engineering, Viladghat, Ahmednagar.**
**Department of Electrical Engineering.**

Date:-14/06/2018

# Guidelines for Project Work at B.E. Electrical

All the students of B.E. Electrical are hereby informed that the schedule of Project work during year 2018-2019 is given below.

The student shall take up suitable project from various below mentioned areas. The scope of the project shall be such as to complete it within the time schedule. An individual can undertake project but maximum number of students in one group should not be more than three (only in exceptional cases a maximum four no. of students can be allowed by Head of the Department). Has to maintain the progress report time to time as per given format otherwise project is not accepted. The project may be of the following nature:

**Electrical Field**

This is not limited to following subtopics

| | | |
|---|---|---|
| 1. **Electrical Power System**:- | i. | Substation |
| | ii. | Substation Grounding |
| | iii. | Load Flow Analysis |
| | iv. | Line Design |
| | v. | Power Line Carrier Communication |
| | vi. | Power Line Carrier Communication By SCADA |
| | vii. | Tariff |
| | viii. | Reactive Power tariff |
| | ix. | Available Base Tariff |
| | x. | Reactive Power Compensation |
| | xi. | Cogeneration |
| 2. **Electrical Machines: -** | i. | Traction |
| | ii. | Vector Control |
| | iii. | Machine Modeling |
| | iv. | Drives Control |
| | v. | Special Machine Control |
| | vi. | Starter control Soft Control |
| 3. **Control System** :- | i. | Sliding Mode Control |
| | ii. | Neural Network |
| | iii. | Fuzzy Logic |
| | iv. | Robotics |
| | v. | Digital Control System |
| 4. **Renewable Energy: -** | i. | Wind Energy |
| | ii. | Solar Energy |
| | iii. | Tidal Energy |
| | iv. | Micro Hydro Power Energy |
| | v. | Maximum Point Tracking in Wind |
| | vi. | Maximum Point Tracking in Solar |
| 5. **High Voltage Engineering:-** | i. | Testing of Equipments |
| | ii. | Measurement of AC/DC Impulse Voltage |
| 6. **Electronics :-** | | Application oriented |
| | i. | Inverter |
| | ii. | Chopper |
| | iii. | Converter |
| | iv. | Cyclo converter |

**Following Broad Area can be Used for above mentioned field to develop the project**

1. Manufacturing / Fabrication of a prototype unit including selection, concept, design, material, manufacturing the component, assembly of components, testing and performance evaluation.
2. Improvement of the existing equipment / process.
3. Computer aided design, analysis of components.
4. Problems related to productivity improvement.
5. Problems related to value engineering.
6. Problems related to material handling systems.
7. Energy audit of organization.
8. Detail cost estimation of products.
9. Quality improvement systems and management.
10. Low cost automation etc.
11. Renewable Energy.
12. Energy Conservation.
13. Software based for any application in electrical engineering.

**Submission of Report:**
The student shall submit the detailed report based on his/her project work to his/her internal guide. It shall include relevant circuit diagrams, graphs, photographs, specification sheets etc.

| Sr. No. | Project work | Dates |
|---|---|---|
| 1 | Formation of group & Choice of Guide | **on or before 20/07/2018** |
| 2 | Submission of Group **(Maximum 03 students per Group)** list approved by Guide To BE Project Coordinator | **on or before 20/07/2018** |
| 3 | Submission of Project Title approved by Guide To BE Project Coordinator | **on or before 31/07/2018** |
| 4 | Review of proposed project work. | **16/08/2018 & 17/08/2018** |
| 5 | Approval of Project Report from Guide & finalization of report | **Up to 05/04/2019** |
| 6 | Brief Demo & **Submission of Certified Project Report** | **08/04/2019 & 09/04/2019** |

**All the students must prepare their project report as per Guidelines Displayed only.**
Any change in Project Title or Group will not be allowed without permission from coordinator.
All the Guides are requested to note the dates & observe above schedule strictly.

**N.B.** If students fail to form group & select the Guide as per the mentioned date, Project Coordinator in coordination with HOD Electrical will form the group & the Guide will be allotted.

**Prof. G. K. Shirsat**
**BE Project Coordinator**

**Head**
**Electrical Engineering Dept.**

Copy to
1) Notice Board
2) All Teaching Staff members ---------- for circulation
3) O/C

**Name of Project Guides:-**

1. Prof. S.A. Markad
2. Prof. S.K. Sheikh
3. Prof. M.H. Nerkar
4. Prof. K. R. Ghadge
5. Prof R.A. Wakale
6. Prof. S.K. Awaze
7. Prof. Sumit Kimar
8. Prof. G. K. Shirsat
9. Prof. A. P. Wankhade
10. Prof. G. B. Murade
11. Prof. S. B. Joshi
12. Prof. S. S. Mandhare
13. Prof. P. U. Raut

Dr. V.V. PATIL COLLEGE OF ENGINEERING Ahmednagar

PRINCIPAL
Dr. V.V. Patil
College of Engineering
Ahmednagar

**Dr. Vithalrao Vikhe Patil College of Engineering, Viladghat, Ahmednagar.**

# Department of Electrical Engineering

B. E. Electrical | Acedamic Year 2018-19 | Date:- /07/2018

## Project Groups

| Sr.No | Group number | Name of Guide | Name of the students | Title of the project |
|---|---|---|---|---|
| 1 | 1 | Prof. S. A. Markad | GAWATE VIKAS RAMDAS<br>SASANE SURAJ DASHRATH<br>SHINDE AKSHAY SONAJI | Smart Energy Meter |
| 2 | 2 | Prof. S. A. Markad | MARKAD NIKITA SATISH<br>GAIKWAD SUJIT UTTAMRAO<br>MORE CHETANA N | Placement and Sizing of Distributed Generation for Minimization of losses in Distribution System. |
| 3 | 3 | Prof. S. K. Sheikh | BHANGALE ROSHAN KIRAN<br>GAWALI GANESH DINKAR<br>BAIRAGI RUSHIKESH ASHOK | Simulation of Transient Recovery Voltage of Circuit Breaker |
| 4 | 4 | Prof. S. K. Sheikh | FAND AKSHAY GANGADHAR<br>GHOLAP SHUBHAM SUBHASH<br>HANDE RAKESH DATTATRAYA<br>BATULE TUSHARASHOK | PLC based sewage treatment plant. |
| 5 | 5 | Prof. M. H. Nerkar | RAUT BHAGWAN TUKARAM<br>ROJATKAR GANESH SONAJI<br>TAKTODE KRUSHNA CHANDRAO | FACTS (Flexible AC Transmission System) using TSR (Thyristor Switch Reactance) |
| 6 | 6 | Prof. K. D. Vidhate | RATHOD YOGESH RAJARAM<br>GDHAVE ABHIJIT DILIP<br>GHADGE KRISHNA SUBHASH | DESIGN & IMPLEMENTATION OF AN INTELLIGENT AUTOMATIC IRRIGATION SYSTEM |
| 7 | 7 | Prof. K. D. Vidhate | HAJARE PANDURANGBHIKAJI<br>LENDE PRAMODDATTU<br>RATHOD SOMNATHUTTAM | |
| 8 | 8 | Prof. Sumit Kumar | GAVHANE VISHALNANDU<br>HEKARE SAURABHSUNIL<br>JADHAV VIKRANTSHANKAR | Condition Monitoring Of Induction Motor Parameters Using IOT |
| 9 | 9 | Prof. Sumit Kumar | SONAWANE AJINKYADILIP<br>VARPE ANIKETLAXMAN<br>AHIRE RAJESHSANJAY | |
| 10 | 10 | Prof. S. S. Mandhre | KORDE VISHNU NARAYAN<br>SONWANE SHUBHAM BABASAHEB<br>GAIKWAD MAHESH SANDIP | Design Of Advanced Switchgear control Panel . |
| 11 | 11 | Prof. S. K. Awaze | KOKATE VIJAYGULAB<br>MORE AMOLNANASAHEB<br>SASTE SURAJVITTHAL | Humidity Detection and Control within Cable Box of Ring Main Unit(RMU) |
| 12 | 12 | Prof. G. K. Shirsat | NIKAM RUSHIKESH KHANDU<br>NIKAM ROHAN SURESH<br>KADAM SATYANARAYAN SANDU<br>SHENDE MANISHASHANKAR | BLDC Motor speed control using Microcontroller |

**Dr. Vithalrao Vikhe Patil College of Engineering, Viladghat, Ahmednagar.**

## Department of Electrical Engineering

B. E. Electrical | Acedamic Year 2018-19 | Date:- /07/2018

### Project Groups

| | | | | |
|---|---|---|---|---|
| 13 | 13 | Prof. G. K. Shirsat | DHISALE SHIVAJI SARJEROA<br>ROTE SWAPNEEL SURESH<br>DILIP ANDIL GOVIND | Artificial Oxygen Solar Tree |
| 14 | 14 | Prof. G. B. Murade | BORUDE PRAJAKTA DIGAMBAR<br>KAPSE PRATIKSHA BHAUSAHEB<br>BOLLI SHRADHA ARJUN | Solar Powered Forest Fire Detection using Zig-bee Wireless Sensor Network |
| 15 | 15 | Prof. G. B. Murade | DHAKNE SUYOG SHIVHARI<br>SHINDE DATTA ASHOK<br>ZAMBARE YASHAWANT GAJANAN | Transformer-less UPFC Device For Power Quality Enhancement In Power System. |
| 16 | 16 | Prof. R A. Wakale | AGARKAR RUSHABH RAJU<br>KHIRADKAR VIJAY GOPALRAO<br>PATIL GAURAV BALU | Automatic earth resistance sensing and control |
| 17 | 17 | Prof. R A. Wakale | CHOUDHARY SHUBHAM MADAN<br>PARAD VAISHALI ANNASAHEB<br>PHATALE SNEHA SOMNATH<br>PANJA ASMITAAVIJIT | PLC based Rotating curing oven. |
| 18 | 18 | Prof. A. P. Wankhade | DESHMUKH SHWETA SIDDESHWAR<br>DILWALE SONALI ARJUN<br>JAWALE SHUBHANGI SANJAY<br>WAGHMARE PRAJAKTA RAJU | A Solar Power Assisted Battery Balancing System For Electric Vehicles |
| 19 | 19 | Prof. S. B. Joshi | VYAVAHARE BALASAHEB LAHU<br>PATIL RAHUL TUKARAM<br>KEDAR PRAVIN BHIVSEN | Effect of rewinding on 3 phase induction motor performance parameter |
| 20 | 20 | Prof. S. B. Joshi | WAGHMARE GAJENDRA SHIVAJI<br>WANI AKASH APPASAHEB<br>KADAM PRATIK ARUN | generation of electricity 230 v using earth electrod |
| 21 | 21 | Prof. S. S. Mandhre | AHER MEGHRAJ SANJAY<br>BHAGAT BANESHWAR SUDAM<br>NALAWADE PRAVIN SOMINATH | SMART WASTE MANEGEMENT SYSTEM |

**Project & Seminar Coordinator**
**Electrical Engg. Dept.**

**HOD**
**Electrical Engg. Dept.**

DR.V.V.PATIL COLLEGE OF ENGINEERING Ahmednagar

PRINCIPAL
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar