

### 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 2020-2021 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 :-**
  - 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<br>(Maximum 03 students per Group)    | 05/01/2021 to 08/01/2021 |
| 2       | Submission of Project title approved by Guide<br>To BE Project Coordinator | Till 11/01/2021          |
| 3       | Finalization of Guide allotment                                            | 14/01/2021               |

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

Copy to

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

Name of Project Guides:-

1. Dr. A. R. Laware
2. Prof. S. A. Markad
3. Prof. S. K. Sheikh
4. Prof. M. H. Nerkar
5. Prof. K. R. Ghadge
6. Prof. R. A. Wakale
7. Prof. S. K. Awaze
8. Prof. G. K. Shirsat
9. Prof. G. B. Murade
10. Prof. S. B. Joshi
11. Prof. S. S. Mandhare

AK Laware  
Head  
Electrical Engineering Dept.  
5.1.2021



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

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

**Department of Electrical Engineering**

B. E. Electrical

Acedamic Year 2020-21

Date:- 10/01/2021

**Project Group & Guide Allotment**

| Sr. No. | Project Group No | Roll No | Name of Student             | Guide                |
|---------|------------------|---------|-----------------------------|----------------------|
| 1       | I                | 40      | GAIKWAD SANGHAMITRA PRAKASH | Prof. M. H. Nerkar   |
| 2       |                  | 44      | JADHAV BHAGYASHRI SUNIL     |                      |
| 3       |                  | 41      | SHELKE VAISHNAVI BHIMRAJ    |                      |
| 4       | II               | 3       | DESHIPANDE AKANKSHA ABHAY   | Prof. S. S. Mandhare |
| 5       |                  | 69      | PATEKAR SHEETAL             |                      |
|         |                  | 14      | SHINDE ANKITA RAJU          |                      |
| 6       |                  | 68      | DESHMUKH PRAMODIN EKNATH    |                      |
| 7       | III              | 54      | SHINDE ANIKET PRABHAKAR     | Prof. K. D. Vidhate  |
| 8       |                  | 23      | SURVE SHUBHAM KAILAS        |                      |
| 9       |                  | 18      | DAYMA SUDHANSHU RAJESH      |                      |
| 10      | IV               | 10      | PAGARE POONAM VIJAY         | Prof. S. S. Mandhare |
| 11      |                  | 5       | KAVADE SUSHMITA RAVINDRA    |                      |
| 12      |                  | 12      | SALI SRUSHTI RAMDAAS        |                      |
| 13      | V                | 30      | RAUT PRANAV SANDIP          | Prof. G. K. Shirsat  |
| 14      |                  | 42      | DHABADGAONKAR GAYATRI ANAND |                      |
| 15      |                  | 32      | SONAWANE DIVYA RAJU         |                      |
| 16      |                  | 7       | LAHANGE GAURI SHIVAJI       |                      |
| 17      | VI               |         | ATHARE KSHAMA ROHIDAS       | Prof. S. K. Sheikh   |
| 18      |                  | 17      | ZINE SUPRIYA KAILAS         |                      |
| 19      |                  | 2       | DASPUTE SHIVPRIYA SURESH    |                      |
| 20      | VII              | 46      | THOMBARE MONALI MAHADEO     | Dr. A. R. Laware     |
| 21      |                  | 21      | KAMBLE AKSHATA VISHNU       |                      |
| 22      |                  |         |                             |                      |
| 23      | VIII             | 26      | KAMBLE NIKITA SANJAY        | Dr. A. R. Laware     |
| 24      |                  | 19      | JHA JYOTIKUMARI MANOJKUMAR  |                      |
| 25      |                  | 59      | LANDAGE DHANASHREE POPAT    |                      |
| 26      |                  | 57      | AHER TEJASWINI SAHEBRAO     |                      |

| Sr. No. | Project Group No | Roll No | Name of Student             | Guide               |
|---------|------------------|---------|-----------------------------|---------------------|
| 27      | IX               | 9       | LOKHANDE DIPRA UMESH        | Prof. S. K. Sheikh  |
| 28      |                  | 6       | KODAM AISHWARYA DEVIDAS     |                     |
| 29      |                  | 16      | ZANJE PRAJAKTA BHAIKUNATH   |                     |
| 30      | X                | 1       | CHAVAN SANKALP SANJAY       | Prof. S. K. Sheikh  |
| 31      |                  | 22      | KOKARE SATYAJEET RAJENDRA   |                     |
| 32      |                  | 45      | SATRE MAHESH PARASRAM       |                     |
| 33      | XI               | 31      | SHINDE VAISHNAVI PANDURANG  | Prof. K. D. Vidhate |
| 34      |                  | 43      | GOSKI VAISHNAVI JAYVANT     |                     |
| 35      |                  | 27      | DAUND ASHWINI DHARMA        |                     |
| 36      | XII              | 8       | LANDE NISHANT RAVINDRAKUMAR | Prof. K. D. Vidhate |
| 37      |                  | 13      | SALVE ROHIT RAJU            |                     |
| 38      |                  | 4       | GHUGARE POOJA SHRIKANT      |                     |
| 39      | XIII             | 28      | LEKURWALE AMOL ANNASAHAB    | Prof. S. K. Awaze   |
| 40      |                  | 33      | WAGHAMARE PANDURANG GANESH  |                     |
| 41      |                  | 51      | PURI SANKET BADKINATH       |                     |
| 42      |                  | 53      | MOMALE ABHISHEK SHEKHAR     |                     |
| 43      | XIV              | 62      | DARADE SHITAL BANDU         | Prof. G. K. Shirsat |
| 44      |                  | 47      | WAVHAL PRIYANKA DHARMRAJ    |                     |
| 45      |                  | 34      | VARADE BAJRANG UTTAM        |                     |
| 46      | XV               | 11      | RUPNWAR VISHAL TATYABA      | Prof. S. B. Joshi   |
| 47      |                  | 38      | RAUT ANIKET GOVINDA         |                     |
| 48      |                  | 70      | THODSARE DHIRAJ KESHAVRAO   |                     |
| 49      | XVI              | 56      | HARKE RUSHIKESH GANESH      | Prof. S. B. Joshi   |
| 50      |                  | 79      | YADAV AJAY SURENDRA         |                     |
| 51      |                  | 78      | WARE PRATIK RAJENDRA        |                     |
| 52      | XVII             | 52      | GAYKE SAURAV BABASAHAB      | Prof. S. K. Awaze   |
| 53      |                  | 49      | BANKAR SARTHAH RAHUL        |                     |
| 54      |                  | 50      | PATIL PRATIK ANKUSH         |                     |
| 55      | XVIII            | 36      | HARIHAR KIRAN RAJENDRAKUMAR | Prof. G. B. Murade  |
| 56      |                  | 37      | KARKHELE ABHAY CHANDRAKANT  |                     |
| 57      |                  | 39      | SHARMA YASH PANKAJ          |                     |

| Sr. No. | Project Group No | Roll No | Name of Student           | Guide                |
|---------|------------------|---------|---------------------------|----------------------|
| 58      | XIX              | 64      | LAWANDE SHIVAM NANDKUMAR  | Prof. S. S. Mandhare |
| 59      |                  | 63      | KARALE RUSHIKESH ADINATH  |                      |
| 60      |                  | 77      | SHALGAR SUMIT KIRAN       |                      |
| 61      | XX               | 24      | ADMANE DATTA PRAKASH      | Prof. M. H. Nerkar   |
| 62      |                  | 25      | GAIKE SWAPNIL SHANKAR     |                      |
| 63      |                  | 29      | MUNDHE MANGESH BHASKAR    |                      |
| 64      | XXI              | 61      | MUSMADE JAYDEEP APPASAHEB | Prof. G. B. Murade   |
| 65      |                  | 67      | VYAVAHARE VISHAL BABAN    |                      |
| 66      |                  | 20      | RAHINJ VIDYADHAR MARUTI   |                      |
| 67      | XXII             | 58      | EKAM SANKET SUKHDEO       | Prof. G. K. Shirsat  |
| 68      |                  | 60      | MHASKE HARSHAL BANDU      |                      |
| 69      |                  | 55      | KAKADE SUDEEP BALASAHEB   |                      |
| 70      | XXIII            | 15      | TIKKAL SONALI MACHINDR    | Prof. S. A. Markad   |
| 71      |                  | 35      | BARDE BALASAHEB GOKUL     |                      |
| 72      |                  | 48      | ADHAV SHUBHAM VILAS       |                      |
| 73      |                  | 65      | SANAP ASHWINI BALASAHEB   |                      |
| 74      | XXIV             | 66      | DANGE DATTATRAY SAHEBRAO  | Prof. G. B. Murade   |
| 75      |                  | 72      | UBALE GOPAL GOVARDHAN     |                      |
| 76      |                  | 73      | PUND AKSHAY SHIVAJI       |                      |
| 77      |                  | 73      | KHANNA ROHIT BALRAJ       |                      |

Project & Seminar Coordinator  
Electrical Engg. Dept.

AK Sandne  
HOD  
Electrical Engg. Dept.

| Sr. No | Name of staff        | Total Groups Alloted |
|--------|----------------------|----------------------|
| 1      | Dr. A. R. Laware     | 2                    |
| 2      | Prof. S. A. Markad   | 1                    |
| 3      | Prof. S. K. Sheikh   | 3                    |
| 4      | Prof. M. H. Nerkar   | 2                    |
| 5      | Prof. K. D. Vidhate  | 3                    |
| 6      | Prof. S. K. Awaze    | 2                    |
| 7      | Prof. G. K. Shirsat  | 3                    |
| 8      | Prof. G. B. Murade   | 3                    |
| 9      | Prof. S. B. Joshi    | 2                    |
| 10     | Prof. S. S. Mandhare | 3                    |
| Total  |                      | 24                   |



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