

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. Abhijith Dameruppala, Roll No. 1602-18-734-001 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
HOD, EEE

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. BABU ADARSH Roll No. 1602-18-734-002 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. AKASH REDDY. CHERUKU Roll No. 1602-18-734-003 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. ALANKRUTHA REDDY PURUMANDLA Roll No. 1602-18-734-004 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. APOORVA MANTHENA Roll No. 1602-18-734-005 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. ASHOKA CHAKRAVARTHY KORRA Roll No. 1602-18-734-006 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
HOD, EEE

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. ASHWIN T Roll No. 1602-18-734-007 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. CHANDRA SHEKAR VAMSHI KARTHIK ANIKODE Roll No. 1602-18-734-008 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. CHARITA SAI SRI. MANTRI Roll No. 1602-18-734-009 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. CHETANA MATHYAM Roll No. 1602-18-734-010 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. DIMPLE SANKEERTHANA UGGU Roll No. 1602-18-734-011 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. NABEELA FIRDOUS Roll No. 1602-18-734-012 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. GANESH GNVS Roll No. 1602-18-734-013 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. GIRIJA KOPPU Roll No. 1602-18-734-014 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. HARSHAVARDHAN BOLLAM Roll No. 1602-18-734-015 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. HASVITHA KOLIKINENI Roll No. 1602-18-734-016 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **KARTHEEK GILAKATHULA** Roll No. 1602-18-734-017 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. KEERTHANA GUNREDDY Roll No. 1602-18-734-018 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. LAVANYA KILARI Roll No. 1602-18-734-019 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. LIKITH GUNDRU Roll No. 1602-18-734-020 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. MANEESH SADU Roll No. 1602-18-734-021 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. MEGHANA NAIK TEJAVATH Roll No. 1602-18-734-022 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **MEGHASYAM AKULA** Roll No. 1602-18-734-023 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. AZEEM PASHA MOHAMMAD Roll No. 1602-18-734-024 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. MOUNIKA DESHABOINA Roll No. 1602-18-734-025 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. MURALI KRISHNA GUNDA Roll No. 1602-18-734-026 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. NAGA SAI CHAITANYA GORIPARTHI Roll No. 1602-18-734-027 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SALLUM NAMEERA Roll No. 1602-18-734-028 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. NISHITH NARAYAN REDDY KETHIREDDY  
Roll No. 1602-18-734-029 had successfully completed the assigned work during  
01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the  
Department of Electrical and Electronics Engineering , Vasavi college of  
Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. PAVAN KUMAR NUTALAPATI Roll No. 1602-18-734-030 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. POOJA GUNDA Roll No. 1602-18-734-031 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **PRASHANTH DASARI** Roll No. 1602-18-734-032 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **RACHANA GOUNDLA** Roll No. 1602-18-734-033 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **RATNA PRIYA G** Roll No. 1602-18-734-034 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **RISHABH DEO** Roll No. 1602-18-734-035 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **ROHITH THALLA** Roll No. 1602-18-734-036 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SAI LAKSHMI DURGA RAMYA KALIGINEDI  
Roll No. 1602-18-734-037 had successfully completed the assigned work during  
01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the  
Department of Electrical and Electronics Engineering , Vasavi college of  
Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
HOD, EEE

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SAI PAVAN DUTT SAMATAM Roll No. 1602-18-734-038 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SAI RANJITH VALLAPU Roll No. 1602-18-734-039 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SAI SUDEEP LINGAM Roll No. 1602-18-734-040 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SAIAJITH MUDUTHANAPELLI Roll No. 1602-18-734-041 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SAIPAVAN KATTA Roll No. 1602-18-734-042 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. **UMIKA SANTHOSHINI KONDA** Roll No. 1602-18-734-043 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SATHVIK KUMAR PERUMANDLA Roll No. 1602-18-734-044 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SHANTHAN ARKANTI Roll No. 1602-18-734-045 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SHIVANAND KARNATI during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SHREEKAR SARVA Roll No. 1602-18-734-047 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. CH SHUSHMASRI Roll No. 1602-18-734-048 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarty*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SUJIT KUMAR BOGA Roll No. 1602-18-734-049 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SURIBABU CHETTIPALLY Roll No. 1602-18-734-050 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. SURYA TEJA CILUMULA Roll No. 1602-18-734-051 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. THARUN KALYAN KUNCHHA Roll No. 1602-18-734-052 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. UJWALA CHINTALA Roll No. 1602-18-734-053 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. VARALAXMI DEVOLLA Roll No. 1602-18-734-054 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering, Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. VARDHAN ADDAKATTU Roll No. 1602-18-734-055 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. Arbaaz Mir Roll No. 1602-17-734-050 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. VISWANATHA REDDY MALLU Roll No. 1602-18-734-057 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
**HOD, EEE**

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. YASHASWINI TADISHETTY Roll No. 1602-18-734-058 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. YASHVI PEETI Roll No. 1602-18-734-059 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarty*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. YASHWANTH BV Roll No. 1602-18-734-060 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. T.Manish kumar Roll No. 1602-18-734-301 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. M.Sai Krishna Roll No. 1602-18-734-302 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*  
*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. S.Vineetha Roll No. 1602-18-734-303 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. CH. Sai Ram Roll No. 1602-18-734-304 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. M.Pooja Roll No. 1602-18-734-305 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**VASAVI COLLEGE OF ENGINEERING (A)**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

IBRAHIMBACH, HYDERABAD - 500 031

[www.vce.ac.in](http://www.vce.ac.in)



**CERTIFICATE**

*This is to certify that Mr./Ms. B. Sravya Roll No. 1602-18-734-306 had successfully completed the assigned work during 01.03.2021 to 06.03.2021 in the academic year 2020-21 organized by the Department of Electrical and Electronics Engineering , Vasavi college of Engineering (A), Hyderabad- 500031.*

*M. Chakravarthy*

*HOD, EEE*

**SIMULATION OF THREE PHASE FULL CONTROLLED  
BIDIRECTIONAL RECTIFIER FED SEPARATELY EXCITED  
DC MOTOR**

**A PROJECT REPORT**

*Submitted by*

**SRIJA KONGARA**

(1602-17-734-047)

Under the Guidance of

**Mr. U. ELISHA**

ASSISTANT PROFESSOR

*Submitted in partial fulfilment for the award of the degree of*

**Bachelor of Engineering**

IN

ELECTRICAL AND ELECTRONICS ENGINEERING



**Vasavi College of Engineering**  
(Affiliated to Osmania University)  
Ibrahimbagh, Hyderabad-500031

June, 2021

# CERTIFICATE

This is to certify that this project report entitled "SIMULATION OF NINE LEVEL CASCADED H-BRIDGE INVERTER WITH REDUCED SWITCHES" by M.DEEPISHIKA(1602-17-734-008), MOHAMMED ABDUL RAB SOHEB(1602-17-734-018), SIRIGIRI SACHIN(1602-17-734-029), A SRI VIDYA CHANDANA(1602-17-734-046) submitted in partial fulfilment of the requirements for the year degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering (Autonomous) Hyderabad, during the academic year 2020-21, is a bonafide record work carried out under my guidance and supervision.

  
**Internal guide**

Mr. Rajasekhara Reddy Ponduru

Assistant Professor,

Department of EEE,

Vasavi College of Engineering(A),

Hyderabad

  
**Head of Department**

Dr. M. Chakravarthy

Professor & HOD(EEE)

Department Of EEE

Vasavi College of Engineering(A),

Hyderabad

# CERTIFICATE

This is to certify that this project report entitled "SMART DOOR BELL SYSTEM" by Burgupelli Bhargava sai (1602-17-734-007), Banoth Naveen (1602-17-734-021), Nannuri Sreeja Reddy (1602-17-734-044), Devarakonda Gouthami (1602-17-734-307), submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-21, is a bonafide record of work carried out under my guidance and supervision.



**Internal Guide:**

Dr. M. Chakravarthy  
Professor and Head of the Department,  
Electrical and Electronics Engineering  
Vasavi College of Engineering, Hyderabad



**Head of the Department:**

Dr. M. Chakravarthy  
Professor and Head of the Department  
Electrical and Electronics Engineering  
Vasavi College of Engineering, Hyderabad

# CERTIFICATE

This is to certify that work entitled “**THREE PHASE FULLY CONTROLLED BIDIRECTIONAL RECTIFIER FED SEPARATELY EXCITED DC MOTOR**” submitted by **D. Sai Hrishika (1602-17-734-035)**, **Allani. Saketh (1602-17-734-038)**, **Srija. Kongara (1602-17-734-047)**, **K. Tejith Reddy (1602-17-734-051)**, submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-2021, is a bonafide record of work carried out under our guidance and supervision



Internal guide

**Mr. U. Elisha**

Assistant Professor, Dept. of EEE  
Vasavi College of Engineering, Hyd.



Head of the Department

**Dr. M. Chakravarthy**

Professor & HOD, Dept. of EEE  
Vasavi College of Engineering, Hyd.

# VASAVI COLLEGE OF ENGINEERING

(Autonomous)

**"Department of Electrical and Electronics Engineering"**

Affiliated to Osmania University, approved by A.I.C.T.E

Ibrahimbagh, Hyderabad-500031



## CERTIFICATE

This is to certify that this project report entitled **"GYM POWER USAGE FOR DOMESTIC APPLIANCES"** by **THALLAPELLI HARSHINI (1602-17-734-013)**, **KALLU SATVIK REDDY (1602-17-734-040)**, **BUDATI SRI MOHAN REDDY (1602-17-734-045)**, **PAGGALA VINAY (1602-17-734-060)**, submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-21, is a bonafide record of work carried out under my guidance and supervision.

**INTERNAL GUIDE**

Mr. P. RAVI

ASSISTANT PROFESSOR, DEPT. OF EEE

**HEAD OF THE DEPARTMENT**

Dr. M. CHAKRAVARTHY

PROFESSOR, DEPT. OF EEE

**EXTERNAL EXAMINER**

# CERTIFICATE

This is to certify that this project report entitled "MODELLING OF INDUCTION MOTOR" by KEERTHIREPALA(1602-17-734-014), BANDELA MANINDHAR(1602-17-734-017), MOGILITHARUN TEJA(1602-17-734-053) submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering(Autonomous), Hyderabad, during the academic year 2020-21, is a bonafide record work carried out under my guidance and supervision.

Signature



**Internal Guide:**

M Sreenivasulu

Assistant Professor, Department of EEE

Vasavi College of Engineering (A)

Hyderabad



**Head of the department**

Dr.M.Chakravarthy

Professor&Head of the Department EEE

Vasavi College of Engineering (A)

Hyderabad

# CERTIFICATE

This is to certify that this project report entitled "PLC TWO-AXIS PIC AND PLACE USING TIA PORTAL, PLCSIM AND FACTORY I/O" by **GONEGARI APOORVA (1602-17-734-004), ELKA MANIDEEP REDDY(1602-17-734-016), SREE LAVANYA THAMMU (1602-17-734-043), KONDAMAREDDY VAIHITA REDDY(1602-17-734-054)** submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering (Autonomous), Hyderabad during the academic year 2020-21, is a bonafide record work carried out under my guidance and supervision.

Internal Guide

  
Ms. G. Sandhya Rani

Assistant professor, Dept of EEE

Vasavi College of Engineering



Dr. M. Chakravarthy

Professor & HOD

## CERTIFICATE

This is to certify that this project report entitled "MODELLING OF INDUCTION MOTOR" by KEERTHIREPALA(1602-17-734-014), BANDELA MANINDHAR(1602-17-734-017), MOGILITHARUN TEJA(1602-17-734-053) submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering at Vasavi College of Engineering(Autonomous), Hyderabad, during the academic year 2020-21, is a bonafide record work carried out under my guidance and supervision.



**Internal Guide:**

M Sreenivasulu

Assistant Professor, Department of EEE

Vasavi College of Engineering (A)

Hyderabad



**Head of the department**

Dr.M.Chakravarthy

Professor&Head of the Department EEE

Vasavi College of Engineering (A)

Hyderabad

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING**

**(Autonomous)**



**CERTIFICATE**

This is to certify that the project work entitled “A Fuzzy logic controller for Autonomous operation of a Voltage source converter-based Distributed generation system” has been done by **Chiluveru Phaalguni (1602-18-766-009)**, a student of Department of Electrical and Electronics Engineering, Vasavi College of Engineering, and is submitted in partial fulfillment for the award of Master of Engineering with Power System and Power Electronics as specialization for the year 2018-2020.

**Signature of Internal Guide**

Mr. P. Ravi  
Assistant Professor  
Vasavi College of Engineering  
Hyderabad

**Signature of Head of Department**

Mr. Dr. M. Chakravarthy  
Professor & HOD (EEE)  
Vasavi College of Engineering  
Hyderabad

# CERTIFICATE

This is to certify that this project report entitled "SIMULATION OF NINE LEVEL CASCADED H-BRIDGE INVERTER WITH REDUCED SWITCHES" by **MLDEEPSHIKA(1602-17-734-008)**, **MOHAMMED ABDUL RAB SOHEB(1602-17-734-018)**, **SIRIGIRI SACHIN(1602-17-734-029)**, **A SRI VIDYA CHANDANA(1602-17-734-046)** submitted in partial fulfilment of the requirements forth year degree of Bachelor of Engineering in Electrical and ElectronicsEngineering atVasavi College of Engineering (Autonomous) Hyderabad, during the academicyear2020-21, isa bonafide record work carried out under my guidance and supervision.



**Internal guide**

Mr. Rajasekhara Reddy Ponduru

Assistant Professor,

Department of EEE,

Vasavi College of Engineering(A),

Hyderabad



**Head of Depaertment**

Dr. M . Chakravarthy

Professor& HOD(EEE)

Department Of EEE

Vasavi College of Engineering(A),

Hyderabad

# CERTIFICATE

This is to certify that the project report entitled "ELECTRIC VEHICLE SIMULATION USING MATLAB" by B KAVYA(1602-16-734-017), M AKHILESH PILLAI(1602-17-734-002), CHITTI SANJANA REDDY(1602-17-734-039), SARVEPALLI SHREE NITHYA(1602-17-734-041) submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics at Vasavi College of Engineering (Autonomous), Hyderabad, during the academic year 2020-21, is a bonafide record work carried out under my guidance and supervision.



**Internal Guide:**

G Sandhya Rani

Assistant Professor, Department of EEE  
Vasavi College of Engineering(A)  
Hyderabad



**Head of the Department:**

Dr. M Chakravarthy

Professor & Head of Department EEE  
Vasavi College of Engineering(A)  
Hyderabad

## CERTIFICATE

This is to certify that work entitled "DESIGN OF TRANSFORMER USING PYTHON" submitted by D SURYA TANUJ (1602-17-734-049), N VIKAS REDDY (1602-17-734-058), G PAVAN KUMAR (1602-17-734-311), M SHALINI (1602-17-734-312) submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-2021, is a bonafide record of work carried out under our guidance and supervision.



**Internal Guide**



**Head of the Department**

**External Examiner**

## CERTIFICATE

This is to certify that work entitled “**IOT Based Battery Monitoring System for Electric Vehicle**” submitted by **PVSE HARIPRIYA (1602-17-734-012)**, **RUCHITHA S (1602-17-734-027)**, **KARTHIK B (1602-17-734-308)** submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-2021, is a bonafide record of work carried out under our guidance and supervision.



Internal Guide  
**Mr. G. Mahesh**  
Assistant Professor, Dept. of EEE  
Vasavi College of Engineering, Hyd.



Head of the Department  
**Dr. M. Charavarthy**  
Professor & HoD, Dept. of EEE  
Vasavi College of Engineering, Hyd.

## CERTIFICATE

This is to certify that this project report entitled “**Maximum power point tracking of Wind generator using power signal feedback**” by **K. Nandini (1602-17-734-024), U. Rajashekhar(1602-17-734-024), M. Mahiketh(1602-17-734-302), J. Balaji Babu(1602-17-734-304)** submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-21, is a bonafide record of work carried out under my guidance and supervision.



Internal Guide

Mr. M. Srinivasulu, M. Tech.,

Assistant Professor, Dept of EEE

Vasavi College of Engineering(A), Hyderabad




Dr. M. Chakravarthy

Professor & HOD

Dept. of EEE

## CERTIFICATE

This is to certify that work entitled “**THREE PHASE FULLY CONTROLLED BIDIRECTIONAL RECTIFIER FED SEPARATELY EXCITED DC MOTOR**” submitted by **D. Sai Hrishika (1602-17-734-035)**, **Allani. Saketh (1602-17-734-038)**, **Srija. Kongara (1602-17-734-047)**, **K. Tejith Reddy (1602-17-734-051)**, submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-2021, is a bonafide record of work carried out under our guidance and supervision.



Internal guide

**Mr. U. Elisha**

Assistant Professor, Dept. of EEE

Vasavi College of Engineering, Hyd.



Head of the Department

**Dr. M. Chakravarthy**

Professor & HOD, Dept. of EEE

Vasavi College of Engineering, Hyd.

# VASAVI COLLEGE OF ENGINEERING

(Autonomous)

**“Department of Electrical and Electronics Engineering”**

Affiliated to Osmania University, approved by A.I.C.T.E

Ibrahimbagh, Hyderabad-500031



## CERTIFICATE

This is to certify that this project report entitled **“BIDIRECTIONAL DC-DC CONVERTER FOR ELECTRIC VEHICLE APPLICATION”** by **K. SURYA PRAKASH (1602-17-734-048), VIKAS SUNKASARI (1602-17-734-059), NANDINI RACHARLA (1602-17-734-309)** submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-21, is a bonafide record of work carried out under my guidance and supervision.

  
**INTERNAL GUIDE**

Mr. P. RAVI

ASSISTANT PROFESSOR, DEPT. OF EEE

  
**HEAD OF THE DEPARTMENT**

Dr. M. CHAKRAVARTHY

PROFESSOR, DEPT. OF EEE

**EXTERNAL EXAMINER**

**VASAVI COLLEGE OF ENGINEERING (A)**  
Department of Electrical and Electronics Engineering  
Affiliated to Osmania University, approved by A.I.C.T.E  
Ibrahim Bagh, Hyderabad- 500031



## **CERTIFICATE**

This is to certify that this project report entitled “**Design and Dimensioning of Fly-back Auxiliary Power Supply in Automotives**” by **Nivedita Salota (1602-17-734-022)**, **Roshni Thatavarthy (1602-17-734-026)**, **Kanakala Venkat Marthand (1602-17-734-057)**, **Sirpa Akshay Kumar (1602-17-734-301)** submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-21, is a bonafide record of work carried out under my guidance and supervision.

**INTERNAL GUIDE**  
**Dr. K. Ravi Kumar** MTech., Ph.D.  
Professor, Dept. of EEE

**HEAD OF THE DEPARTMENT**  
**Dr. M. CHAKRAVARTHY** MTech., Ph.D.  
PROFESSOR, DEPT. OF EEE

**VASAVI COLLEGE OF ENGINEERING (A)**  
Department of Electrical and Electronics Engineering  
Affiliated to Osmania University, approved by A.I.C.T.E  
Ibrahim Bagh, Hyderabad- 500031



## **CERTIFICATE**


This is to certify that this project report entitled **“Design and Dimensioning of Fly-back Auxiliary Power Supply in Automotives”** by **Nivedita Salota (1602-17-734-022)**, **Roshni Thatavarthy (1602-17-734-026)**, **Kanakala Venkat Marthand (1602-17-734-057)**, **Sirpa Akshay Kumar (1602-17-734-301)** submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2020-21, is a bonafide record of work carried out under my guidance and supervision.

**INTERNAL GUIDE**  
**Dr. K. Ravi Kumar** MTech., Ph.D.  
Professor, Dept. of EEE

**HEAD OF THE DEPARTMENT**  
**Dr. M. CHAKRAVARTHY** MTech., Ph.D.  
PROFESSOR, DEPT. OF EEE

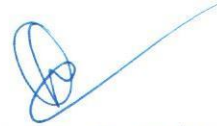
## CERTIFICATE

This is to certify that the project report entitled "RAILWAY TRACK FAULT DETECTION USING IOT" by G TUSHAR DINAKARAN(1602-17-734-009), RAVULA RUTHWIK(1602-17-734-028), GUDA ANANYA(1602-17-734-306), submitted in partial fulfilment of the requirement for the degree of Bachelors of ENGINEERING in Electrical and Electronics Engineering(Autonomous), Hyderabad, during the academic year 2020-21, is a Bonafide record work carried out under my guidance and supervision.



**Internal Guide:**

Dr. K. Ravi Kumar M.Tech, Ph.D  
Professor, Department of EEE  
Vasavi College of Engineering(A)  
Hyderabad



**Head of the Department:**

Dr. M Chakravarthy  
Professor & Head of Department EEE  
Vasavi College of Engineering(A)  
Hyderabad

# **THREE PHASE GRID CONNECTED INVERTER FOR PV SYSTEMS USING MPPT**

A project report submitted in partial fulfilment of the  
requirements for the award of the degree of

**Bachelor of Engineering**

**IN**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

*Submitted by*

Hari Giridharan	:	1602-16-734-011
Prathibha Vuyyala	:	1602-17-734-023
P Sai Teja	:	1602-17-734-037
M kavya	:	1602-17-734-305

**Under the Guidance of**

**N Uday Kumar**

**(Assistant Professor, Department of EEE)**



**Vasavi College of Engineering**

**(Autonomous)**

Affiliated to Osmania University

Ibrahimbagh, Hyderabad-500031

# CERTIFICATE

This is to certify that work entitled “**THREE PHASE FULLY CONTROLLED BIDIRECTIONAL RECTIFIER FED SEPARATELY EXCITED DC MOTOR**” submitted by **Srija. Kongara (1602-17-734-047)** submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in *Electrical and Electronics Engineering* of the Vasavi College of Engineering, Hyderabad, during the academic year 2020- 2021, is a bonafide record of work carried out under our guidance and supervision



Internal guide

**Mr. U. Elisha**

Assistant Professor, Dept. of EEE  
Vasavi College of Engineering, Hyd.



Head of the Department

**Dr. M. Chakravarthy**

Professor & HOD, Dept. of EEE  
Vasavi College of Engineering, Hyd.

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING**

**(Autonomous)**



**CERTIFICATE**

This is to certify that the project work entitled “A Fuzzy logic controller for Autonomous operation of a Voltage source converter-based Distributed generation system” has been done by **Chiluveru Phaalguni (1602-18-766-009)**, a student of Department of Electrical and Electronics Engineering, Vasavi College of Engineering, and is submitted in partial fulfillment for the award of Master of Engineering with Power System and Power Electronics as specialization for the year 2018-2020.



**Signature of Internal Guide**

Mr. P. Ravi  
Assistant Professor  
Vasavi College of Engineering  
Hyderabad



**Signature of Head of Department**

Mr. Dr. M. Chakravarthy  
Professor & HOD (EEE)  
Vasavi College of Engineering  
Hyderabad

## CERTIFICATE

This is to certify that the project report entitled "THREE PHASE GRID CONNECTED INVERTER FOR PV SYSTEMS USING MPPT" by HARI GIRIDHARAN(1602-17-734-011) , PRATHIBHA VUYYALA(1602-17-734-023), P SAI TEJA(1602-17-734-037),M KAVYA(1602-17-734-305) submitted in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Electrical and Electronics at Vasavi College of Engineering (Autonomous), Hyderabad, during the academic year 2020-21, is a bonafide record work carried out under my guidance and supervision



**Internal Guide:**  
N Uday Kumar

Assistant Professor, Department of EEE  
Vasavi College of Engineering  
Hyderabad



**Head of the Department:**  
Dr. M Chakravarthy

Professor & HOD EEE  
Vasavi College of Engineering  
Hyderabad