



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

NAAC Accredited with 'A' Grade

Ph.: 07104-242919, 242623, 242588

Website : www.ycce.edu E-mail : principal@ycce.edu

Summary of 3.2.1


Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Year	2020-21	2019-20	2018-19	2017-18	2016-17
INR in Lakhs	31.32	34.99	73.75	45.38	33.83

Supporting Documents

1. E copies of sanction letters of Government and non-Governmental agencies
2. First page of research base project reports




Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road,
NAGPUR - 441110

Index-3.2.1

2018-19

Sr. No.	Name of Supporting Documents	Page No.
1.	E copies of Sanction Letters of Government and Non-Governmental Agencies	1-31
2.	First Page of Research Base project reports	32-313

E copies of Sanction Letters of Government and Non-Governmental Agencies

Dated: 26-Feb-2019

ORDER

Subject: Financial Sanction of the research project titled "**Energy and Communication Efficient Protocol of Mobile Ad-Hoc Network using Cross-Layer Approach**" under the guidance of **Dr. Manish Devendra Chawhan**, Electronics And Telecommunication, Yeshwantrao Chavan College of Engineering , Hingna road wanadongri, Nagpur, Maharashtra-441110 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of **Rs. 4266000/- (Rs. Forty Two Lakh Sixty Six Thousand Only)** with break-up of **Rs. 2365000/- under Capital (Non-recurring) head and Rs.1901000/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 4266000/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> High End Computer Processor -> IOT & Sensor Network Training System -> Standard Research Version Software -> Advanced Network Systems Lab for multiple network protocols, layers & topologies	2365000
A'	Total (Non-Recurring)	2365000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1164000 330000 20000
2	Recurring - IV : (Overhead Charges)	387000
B'	Total (Recurring)	1901000
C	Total cost of the project (A' + B')	4266000

2. Sanction of the SERB is also accorded to the payment of **Rs. 2365000/-** (Rupees Twenty Three Lakh Sixty Five Thousand only) under 'Grants for creation of capital assets' and **Rs. 635000/-** (Rupees Six Lakh Thirty Five Thousand only) under 'Grants-in-aid General' to **Dr Uday.P.Waghe, Principal, YCCE, Nagpur, Yeshwantrao Chavan College Of Engineering, Hingna Road Wanadongri** being the first installment of the grant for the year 2018-2019 for implementation of the said research project.

3. The expenditure involved is debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under **Empowerment and Equity Opportunities for Excellence in Science. (Task force Committee) (SC)**

4. The Sanction has been issued to Yeshwantrao Chavan College Of Engineering, Hingna Road Wanadongri with the approval of the competent authority under delegated powers on **25 February, 2019** and vide Diary No. **SERB/F/11552/2018-2019** dated **25 February, 2019**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than **Rs. 1.5 lakh** each should be spent for travel and contingency.

8. Budget sanctioned under SSR is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The sanctioned equipment would be procured **Page 2 of 313** and its disposal of the same would be done with prior approval of SERB.

11. The release amount of Rs. 3000000/- (Rupees Thirty Lakh only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	Yeshwantrao Chavan College of Engineering
Account Number	1472002100003909
Bank Name & Branch	Punjab National Bank Khamla Branch Khamla Branch, Opp Gulmohar Hall, Khamla, Nagpur-440025.
IFSC/RTGS Code	PUNB0147200
Email id of A/C Holder	principal@ycce.edu
Email id of PI	mchawan1001@gmail.com

12. The institute will furnish to the SERB, New Delhi, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

13. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

14. The project File no. EEQ/2018/000540 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

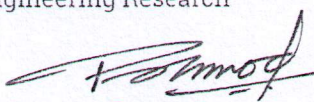
15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project

16. As this is the first grant being released for the project, no previous U/C is required.

17. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

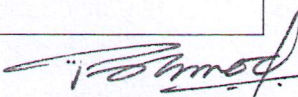
19. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. Pramod Kumar Prasad)
Scientist C
pk.prasad@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Manish Devendra Chawhan Electronics And Telecommunication Yeshwantrao Chavan College of Engineering, Hingna road wanadongri, Nagpur, Maharashtra-441110 Email: mchawan1001@gmail.com Mobile: 919822719411 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	Dr Uday.P.Waghe, Principal, YCCE, Nagpur, Yeshwantrao Chavan College Of Engineering, Hingna Road Wanadongri (Receipt of Grant may be intimated by name to the undersigned)


(Dr. Pramod Kumar Prasad)
Scientist C
pk.prasad@serb.gov.in

Dated: 4 January 2019

F.No. 156/RIFD/MODROB/Policy-1/2017-18

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



MODROB - Sanction Letter

To
The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg,
Vasant Kunj,
New Delhi - 110070

Sub: Release of a sum of Rs. Eleven Lakh Twenty Thousand/- being the Grant-in-Aid under Modernization and Removal of Obsolescence Scheme (MODROB) for the year 2017-18 payable during the current financial year 2018-19-reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 1120000/- (Rupees Eleven Lakh Twenty Thousand Only) as 1st installment / final payment out of the total approved grant-in-aid of Rs. 1400000 for completion of MODROB on Modernisation of Switch Gear & Protection Laboratory in YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING NAGPUR Pin No - 441110 Maharashtra, under the Scheme Modernization and Removal of Obsolescence Scheme (MODROB).

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the Institute through RTGS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
3. The sanctioned amount is debit to the Major Head 601.4(a) Gen. of the Scheme of Modernization and Removal of Obsolescence Scheme (MODROB) and is valid for payment during the financial year 2018-19.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- a. The Principal of the institute and the Coordinator of the project are requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATN0914E	PUNJAB NATIONAL BANK	Khamla Branch	Opp, Gulmohar Hall, Khamla, Nagpur-440025	Principal, Yeshwantrao Chavan College of Engineering	Current Account	1472002100003909	PUNB0147200

In case of any omission the same should be reported to AICTE immediately.

- b. The Institute shall strictly follow the provisions laid down in the scheme document and sanction order No. F. No. 156/RIFD/MODROB/Policy-1/2017-18 dated _____ issued by this office. All correspondences related to the project must contain this number along with year of sanction of the project, failing which correspondence will not be entertained.
- c. Funds covered by this grant shall be kept separately and would not be mixed up with other funds.
- d. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure. (list enclosed).
- e. Any change in the equipments recommended/sanctioned shall not be acceptable in any circumstances.

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Page 1

- f. Any expenditure above the sanctioned amount of grant is to be incurred from Institute's own funds.
- g. The institute/University shall not charge any overheads on this project and will provide all the administrative support for completion of the project.
- h. The accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

- a. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal / Director / Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the approval letter will not be allowed to be adjusted in the grant and if the Institution / University do not take the project work within one month of the receipt of the grant, the approval shall ipso facto lapse.
- b. After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.
- c. 100% grant of the sanctioned amount will be released to Government/Govt. Aided institutions. Utilization Certificate (UC) and other requisite documents are to be submitted within one month of the completion of the project.
- d. To self financed/Pvt. Institutions 80% of the sanctioned amount will be released as first installment followed by 20% as reimbursement after receipt of UC and other requisite documents as specified in terms & Conditions of MODROB Scheme.

III. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program :-
 - (i) **The Annual Progress Report (APR)** in the prescribed format along with Statement of Expenditure and Audited Utilization Certificate shall be submitted to AICTE not later than one month after completion.
 - (ii) **The Utilization Certificate (UC)** supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address.
 - (iii) **Project Completion Report (PCR)** in the prescribed format along with the copies of invoice/bills for the equipments purchased and copy of stock entry register where entry of the equipments have made duly verified. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council. Photocopies of formats are enclosed.
- b. A complete Status Report of the project indicating the activities undertaken, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
- c. The balance amount of the grant will be reimbursed to the university/institution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.
- d. The university/institution is expected to submit the above said mandatory documents viz. Utilization certificate, Expenditure Statement and completion certificate etc. within one month of completion of MODROB project. However, delay of further 2 months may be condoned by AICTE in special circumstances as explained by the institute. Delay in submission of documents after three months of the completion of the MODROB Project shall invite a penalty of 10% of the total sanctioned amount of the MODROB Project, to be deducted from the balance amount of 2nd installment. The entire amount of grant already released, along with interest accrued thereon shall be refunded to AICTE if mandatory documents are not submitted by the institute beyond one year.
- e. **Program Evaluation Committee (PEC)** is required to be constituted at Institutional level. The constitution of the PEC shall be as under:
 - (i) Principal/Director/Registrar of the Institution (Chairperson)
 - (ii) Coordinator of the project (Member Secretary),
 - (iii) Two HODs and one subject expert (Members).

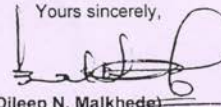
The members of the said PEC shall not be below the rank of Associate Professor. The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.

IV. General Instructions

- a. The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its release.
- b. The duration of the project is for two years from the date of release of grant. It may be ensured that the project is completed within the stipulated time. If the project is not completed in time no further extension will be granted in any case and institute has to refund the entire amount to AICTE. The request for reimbursement of 20% of remaining amount in case of private institution shall be made with UC and other related documents in such a way that the entire project is completed in the prescribed period of two years.
- c. If project is not started within six months of the issuance of this Offer Letter, the released amount, along with interest accrued thereon, has to be returned to AICTE, by way of a demand draft in favour of Member Secretary, AICTE, New Delhi.
- d. Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 154/RIFD/MODROB/Policy-1/2017-18 in your future correspondence.
- e. The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid and a register of assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
- f. The University / Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the project should be super scribed with AICTE project file number.
- g. The assets acquired wholly or substantially out of All India Council for Technical Education's grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the All India Council for Technical Education and should at any time the institution cease to function, such assets shall revert to the All India Council for Technical Education.
- h. GoI GFR rules should be followed during utilization of grant. URL address <http://dge.gov.in/orders-circular/GFR>.

V. List of Equipments approved :

S.No.	Name of Equipment
1.	Feeder protection Setup (Feeder Protection Relay : Make - Alstom : MICOM P14x Directional/Non-directional Relay Time interval meter Power Analyzer with RS- 485 Communication port)
2.	Generator protection Setup (% Differential Relay . Over Current + Earth Fault Relay . Over/under voltage relay . Negative Sequence Relay . Over/under frequency relay . Temperature relay . Time interval meter . Power Analyzer with RS-485 Communication

Yours sincerely,

 (Dileep N. Malkhede)
 Advisor-I (RIFD)
 28/2/19

Copy forwarded for information and necessary action to :-

- 1. **Name and Address of the Coordinator**
 Dr. RAVINDRA MOHARIL
 YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
 WANADONGRI,

Dated: 4 January 2019

F.No. 157/RIFD/MODROB/Policy-1/2017-18

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



MODROBS - Sanction Letter

To
The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg,
Vasant Kunj,
New Delhi - 110070

Sub: Release of a sum of **Rs. Seven Lakh Sixty Thousand/-** being the **Grant-in-Aid under Modernization and Removal of Obsolescence Scheme (MODROB)** for the year **2017-18** payable during the current financial year **2018-19-reg.**

Sir,

This is to convey the sanction of the Council for payment of Rs. 760000/- (Rupees Seven Lakh Sixty Thousand Only) as 1st installment / final payment out of the total approved grant-in-aid of Rs. 950000 for completion of MODROB on Modernisation & Removal of Obsolescence of Microcontroller Labin **YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING NAGPUR Pin No - 441110 Maharashtra**, under the Scheme Modernization and Removal of Obsolescence Scheme (MODROB).

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the Institute through RTGS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
3. The sanctioned amount is debitible to the Major Head 601.4(a) Gen. of the Scheme of Modernization and Removal of Obsolescence Scheme (MODROB) and is valid for payment during the financial year 2018-19.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- a. The Principal of the institute and the Coordinator of the project are requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATN0914E	PUNJAB NATIONAL BANK	Khamla Branch	Opp, Gulmohar Hall, Khamla, Nagpur-440025	Principal, Yeshwantrao Chavan College of Engineering	Current Account	1472002100003909	PUNB0147200

In case of any omission the same should be reported to AICTE immediately.

- b. The Institute shall strictly follow the provisions laid down in the scheme document and sanction order No. F. No. 157/RIFD/MODROB/Policy-1/2017-18 dated _____ issued by this office. All correspondences related to the project must contain this number along with year of sanction of the project; failing which correspondence will not be entertained.
- c. Funds covered by this grant shall be kept separately and would not be mixed up with other funds.
- d. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure. (list enclosed).
- e. Any change in the equipments recommended/sanctioned shall not be acceptable in any circumstances.

- f. Any expenditure above the sanctioned amount of grant is to be incurred from Institute's own funds.
- g. The institute/University shall not charge any overheads on this project and will provide all the administrative support for completion of the project.
- h. The accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

- a. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal / Director / Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the approval letter will not be allowed to be adjusted in the grant and if the Institution / University do not take the project work within one month of the receipt of the grant, the approval shall ipso facto lapse.
- b. After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.
- c. 100% grant of the sanctioned amount will be released to Government/Govt. Aided institutions. Utilization Certificate (UC) and other requisite documents are to be submitted within one month of the completion of the project.
- d. To self financed/Pvt. Institutions 80% of the sanctioned amount will be released as first installment followed by 20% as reimbursement after receipt of UC and other requisite documents as specified in terms & Conditions of MODROB Scheme.

III. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program :-
 - (i) The **Annual Progress Report (APR)** in the prescribed format along with Statement of Expenditure and Audited Utilization Certificate shall be submitted to AICTE not later than one month after completion.
 - (ii) The **Utilization Certificate (UC)** supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address.
 - (iii) **Project Completion Report (PCR)** in the prescribed format along with the copies of invoice/bills for the equipments purchased and copy of stock entry register where entry of the equipments have made duly verified. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council. Photocopies of formats are enclosed
- b. A complete Status Report of the project indicating the activities undertaking, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
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- d. The university/institution is expected to submit the above said mandatory documents viz. Utilization certificate, Expenditure Statement and completion certificate etc. within one month of completion of MODROB project. However, delay of further 2 months may be condoned by AICTE in special circumstances as explained by the institute. Delay in submission of documents after three months of the completion of the MODROB Project shall invite a penalty of 10% of the total sanctioned amount of the MODROB Project, to be deducted from the balance amount of 2nd installment. The entire amount of grant already released, along with interest accrued thereon shall be refunded to AICTE if mandatory documents are not submitted by the institute beyond one year.
- e. **Program Evaluation Committee (PEC)** is required to be constituted at Institutional level. The constitution of the PEC shall be as under:
 - (i) Principal/Director/Registrar of the Institution (Chairperson)
 - (ii) Coordinator of the project (Member Secretary),
 - (iii) Two HODs and one subject expert (Members).

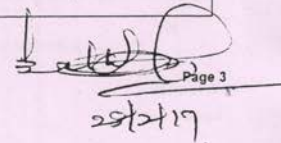
The members of the said PEC shall not be below the rank of Associate Professor. The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.

IV. General Instructions

- a. The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its release.
- b. The duration of the project is for two years from the date of release of grant. It may be ensured that the project is completed within the stipulated time. If the project is not completed in time no further extension will be granted in any case and institute has to refund the entire amount to AICTE. The request for reimbursement of 20% of remaining amount in case of private institution shall be made with UC and other related documents in such a way that the entire project is completed in the prescribed period of two years.
- c. If project is not started within six months of the issuance of this Offer Letter, the released amount, along with interest accrued thereon, has to be returned to AICTE, by way of a demand draft in favour of Member Secretary, AICTE, New Delhi.
- d. Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 15/RIFD/MODROB/Policy-1/2017-18 in your future correspondence.
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- f. The University / Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the project should be super scribed with AICTE project file number.
- g. The assets acquired wholly or substantially out of All India Council for Technical Education's grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the All India Council for Technical Education and should at any time the institution cease to function, such assets shall revert to the All India Council for Technical Education.
- h. GoI GFR rules should be followed during utilization of grant. URL address <http://doe.gov.in/orders-circular/GFR>.

V. List of Equipments approved :

S.No.	Name of Equipment
1.	Proteus VSM Microcontroller Simulation software
2.	ARM -9 Development board
3.	ARM-7 Development board
4.	Raspberry Pi 2 Model B 1GB -The Complete Kit
5.	Raspberry pi zero The Complete Kit
6.	Raspberry pi sensor kit
7.	ATMEGA 16/32/64 Development Board
8.	Arduino Starter Kit
9.	Keil software
10.	Universal Programmer
11.	Rework soldering/ de- soldering System


 Page 3
 28/2/19

Dated: 4 January 2019

F.No. 10/RIFD/MODROB/Policy-1/2017-18

Yours sincerely,

(Dileep N. Malkhede)
Advisor-I (RIFD)

Copy forwarded for information and necessary action to: -

1. **Name and Address of the Coordinator**
Dr. MILIND MUSHRIF
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
WANADONGRI,
HINGNA ROAD,
NAGPUR - 441 110 NAGPUR
- 441110
2. **The Registrar / Director / Principal**
Dr. Uday P. Waghe
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
WANADONGRI,
HINGNA ROAD,
NAGPUR - 441 110 NAGPUR
- 441110
3. **Guard File**

AQIS Application Id: 1-3565442628

Dated: 4 January 2019

F. No. 34-56/2/RIFD/STTP/Policy-1/2017-18

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



STTP- Sanction Letter

To
The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg,
Vasant Kunj,
New Delhi - 110070

Sub: Release of a sum of Rs. 150000/- for conduct of Short Term Training Programme (STTP) during the financial year 2018-19 - reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 150000/- (Rupees One Lakh Fifty Thousand only) for conduct of STTP on Recent trends in Electrical Drives and their Applications to YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING NAGPUR Pin No - 441110 Maharashtra, under the Scheme of Short Term Training Programme.

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
3. The sanctioned amount is debit to the Major Head 601.43(a) Gen. of the Scheme of Short Term Training Programme and is valid for payment during the financial year 2018-19.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- a. The Principal of the institute and the Coordinator of the program are requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released: -

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATN0914E	PUNJAB NATIONAL BANK	Khamla Branch	Opp, Gulmohar Hall, Khamla, Nagpur-440025	Principal, Yeshwantrao Chavan College of Engineering	Current Account	1472002100003909	PUNB0147200

In case of any omission the same should be reported to AICTE immediately.:-

- b. The Institute shall strictly follow the provisions laid down in the scheme document and sanction order no. F.No. 34-56/2/RIFD/STTP/Policy-1/2017-18 dated 04.01.2019 issued by this office.
- c. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- d. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- e. The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course

AQIS Application Number: 1-3558138264

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Finance Bureau
AICTE
08 MAR 2019
588
Dy. No.

Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc.

- f. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to University/Institutions

- a. The full amount of the grant sanctioned is being released as advance to the University/Institute.
- b. The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- c. The above said amount of grant shall be released on the basis of the Letter of Approval (LOA) issued by AICTE to the institute for the academic year 2018-19.

III. Conduct of test and issuance of certificate

A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test.

IV. Submission of documents by University/Institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program:-
 - (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Photocopies of formats are enclosed.

The university/institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.
 - (ii) Feedback form in the prescribed proforma.
 - (iii) Copy of the proceedings and completion report.
 - (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Evaluation Committee (PEC).
 - (v) Report submitted by Program Evaluation Committee (PEC).
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.
- c. The university/institution is expected to submit the above said mandatory documents viz. Utilization Certificate, Expenditure Statement and feedback form etc within one month of conduct of STTP. However, delay of further 2 months may be condoned by AICTE in special circumstances as explained by the institute. Delay in submission of documents after three months of the conduct of STTP shall invite a penalty of 10% of the total sanctioned amount of the STTP, to be recovered from the University/Institute. The entire amount of grant already released, along with interest accrued thereon, shall be refunded to AICTE if mandatory documents are not submitted by the University/Institute beyond one year.

V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 20% participants shall be from the host institution/group of institutions.
- b. Interest, accrued on the grant released shall be refunded back to AICTE.
- c. If programme is not conducted in the period of nine months of the issuance of this Sanction Order,

the released amount, along with interest accrued thereon, has to be returned back to AICTE.

- d. The expenditure under the Heads 'Honorary to Course Coordinator' and 'Honorary to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme
- e. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- f. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within nine months from the date of release of funds.
- g. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-56/2/RIFD/STTP/Policy-1/2017-18 in your future correspondence.
- h. Program Evaluation Committee (PEC) is required to be constituted at institutional level. The constitution of the PEC shall be as under:
- Principal/Director/Registrar of the institution (Chairperson)
 - Coordinator of the program (Member Secretary),
 - Two HoDs and one subject expert (members).

The members of the said PEC shall not be below the rank of Associate Professor. A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PEC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- i. **GoI GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- j. This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,

(Dileep N Malkhede)
Advisor-I (RIFD)

Copy forwarded for information and necessary action to: -

- Name and Address of the Coordinator**
Dr. RAVINDRA MOHARIL
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
WANADONGRI,
HINGNA ROAD,
NAGPUR - 441 110, NAGPUR
NAGPUR- 441110
- The Registrar / Director / Principal**
Dr. Udaykumar Prakashchandra Waghe
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
WANADONGRI,
HINGNA ROAD,
NAGPUR - 441 110, NAGPUR
NAGPUR- 441110
- Guard File**

01 MAR 2019

FILE NO. SSY/2019/000137
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(a statutory body of the Department of Science & Technology, government of India)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 29-Mar-2019

ORDER

Subject: Financial assistance for the organizing National Seminar on "WASTE TO ENERGY: A SOLUTION FOR TOMORROW" by Dr. SHANTANU RAMKRISHNA KHANDESHWAR, Yeshwantrao Chavan College Of Engineering, Hingna Road Wanadongri, Nagpur, Maharashtra-441110 being held from 08-Aug-2019 to 09-Aug-2019 (2 days).

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 75000/- (Rs. Seventy Five Thousand Only) to Yeshwantrao Chavan College Of Engineering, Hingna Road Wanadongri, Nagpur, Maharashtra-441110 during the financial year 2018-2019 to meet the expenses related to TA/DA to Young and Senior Indian Scientists, Pre-conference printing and Contingencies in connection with the above event.

2. The amount of Rs. 75000/- (Rs. Seventy Five Thousand Only) will be drawn by Under Secretary, SERB and disbursed by the means of Cheque or Electronic Fund Transfer (NEFT/RTGS) as beneficiary's Bank Details given below.

Account Name	YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
Account Number	1472002100003909
Bank Name & Branch	PUNJAB NATIONAL BANK PUNJAB NATIONAL BANK, KHAMLA BRANCH, KHAMLA, NAGPUR-440025
IFSC/RTGS Code	PUNB0147200
Email id of A/C Holder	principal@ycce.edu
Email id of PI	khandeshwar333@yahoo.com

to Professor, Yeshwantrao Chavan College Of Engineering, Hingna Road Wanadongri

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER)
This release is being made under Seminar/Symposia. (Internal Committee)

4. The Sanction has been issued with the approval of competent authority under delegated powers and vide sanction number to Yeshwantrao Chavan College Of Engineering, Hingna Road Wanadongri with the approval of the competent authority under delegated powers on 28 March, 2019 and vide Diary No. SERB/F/13111/2018-2019 dated 29 March, 2019

5. As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.

6. It is mandatory that the grantee institution is required to submit to this office, audited Statement of Income-Expenditure, Utilization Certificate (in duplicate as per prescribed format) and brief report of above event (max. 04 pages) within three months after the date of completion. .

7. The balance amount, if any, may be returned through DD in favor of "Fund for Science & Engineering Research" payable at New Delhi.

8. The Organization/Institute/University should ensure that the technical support/financial assistance provided to them by the Science and Engineering Research Board, a statutory body of the Department of Science and Technology (DST), Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

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SCIENCE & ENGINEERING RESEARCH BOARD (SERB)
(Statutory Body Established Through an Act of Parliament: SERB Act 2008)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Sector-B, Pocket-5
Vasant Kunj
New Delhi - 110 070

Assistance to Professional Bodies and Seminar Symposia

File Number: SSY/2019/000368

Dated: 03-Jun-2019

Subject: Application titled ""Construction Materials and Technology: An approach towards Sustainability.""

Dear Prof. Vaishali Nilesh Mendhe,

It is to inform you that your proposal seeking financial assistance under "Assistance to Professional Bodies & Seminar / Symposia Scheme" has been considered and recommended for the same. We are now agreed to provide Rs. 50,000/- as partial grant-in-aid to the recommended application.

Kindly follow the below steps only then you will be able to acknowledge the approval letter:

1. Go to www.serbonline.in through your credentials
2. Go to MenuàProposal submission à View submitted proposals
3. Click on the link under Status column "Proposal Approved, Acknowledgement pending from PI"

Kindly submit the required document/ RTGS within **15 days** of the receipt of this letter in order to enable us to process the file for the release of funds. In case, we do not receive the requested document within the provided time, it would be presumed that you are not interested in this offer and it would be stand withdrawn automatically. No further correspondence will be entertained thereafter.

You are requested to submit an affidavit (Bond) on Rs. 100/- non-judicial stamp paper, in original (by speed / registered post), scan copy through online is also required to submit (format [link-https://serbonline.in/SERB/AbstractFilePath?FileType=E&FileName=BND_SSY.pdf&PathKey=DOCUMENT_TEMPLATE](https://serbonline.in/SERB/AbstractFilePath?FileType=E&FileName=BND_SSY.pdf&PathKey=DOCUMENT_TEMPLATE)).

Kindly note that no separate communication by post would be sent to you in this regard.

With kind regards,
(Dr. Ramesh Vijayan)
Scientist C
Ph:

Email: seminar.symposia@serb.gov.in

Prof. Vaishali Nilesh Mendhe

Scanned with

Vishwantrao Chavan College Of Engineering , Hingna Road Wanadongri, Nagpur, Maharashtra-

To
 Principal
 Yeshwantrao chavan College of Engineering,
 Wanadongri, Nagpur

Date - / /2019

Subject :- This Application regarding late Submission 18-19

Dear Sir,

The student of final year B.E.(ET), purchased the hardware components for their projects & submitted the bills. Since they were unaware of the procedure, they did not take the gate entry within time. Kindly approve the delayed entries of gate pass & process their bills.

Sr. No.	Name of Project	Name of Guide	Amount	Bill No.& Bill Date	Gate pass Date	Gate Entry No.
1	Printing Defect identification Using image Processing.	Dr. M.M. Mushrif	11180	*INV/2018/29530 05/09/2018 *145 28/12/2018 *96 25/01/2019	26/09/2018 24/03/2018 20/03/2019	447 977 978
2	RADAR Based Security System	Mr. R.P. Deshmukh	6768	*Inv.no.:-89 28/11/2018 *Inv.no.:-69 27/10/2018 *Inv.no.:-HYD8-2764087 05/03/2019	30/3/2019 30/03/2019 30/03/2019	1175 1176 1177
3	IOT based smart home	Mr. R.P. Deshmukh	3418	*Inv.No.:-Order no.127312 09/3/2019 *Inv.No.:- Order no.17572 02/03/2019	27/3/2019 27/3/2019	1062 106
4	Non -contact based Baby Monitoring system	Dr.Y.U. Chitriv	4682	*Inv.no.:-EC-INV- 20151200010349 1/10/2018	25/03/2019	994
5	Smart Traffic control using Image Processing	Dr.Y.U. Chitriv	6872	*Inv.No.:-EL-ONL-313 13/08/2018 *	31/08/2018	364
6	Wireless Equipment Control Using MATLAB	Dr. P. W. Raut	2838	*388 6/02/2019 *389 6/02/2019 *499 14/03/2019	27/03/2019 27/03/2019 27/03/2019	1049 1050 1051

Sr. No.	Name of Project	Name of Guide	Amount	Bill No.& Bill Date	Gate pass Date	Gate Entry No.
7	Pesticide Spraying Quadcopter Using Image Processing	Mrs. A.D. Belsare	24449	*Inv.No.:Order no.56694989 04/11/2018 *Inv.No.: DEL2-681017 24/08/2018 *Inv.No.:QNEZ-19041 27/12/2018 *Inv.No.:QSDE-17033 18/08/2018 *Inv.No.:Order no.57838235 26/11/2018 *Inv No. :- 100002692 16/11/2018 *Inv No. :- 100002685 11/11/2018 *Inv No. :-IN-241 30/09/2018 *Inv No. :- IN.151 4/10/2018 *Inv No. :-BOM3-443 21/08/2017	11/3/2019	912
8	Sign Language to speech Controller	Mr. C.S. Gode	14345	*19 25/03/2019	27/03/2019	1040
9	Multiband MIMO Antenna for wireless Application	Mr. S.S. Khade	5100	*Inv.no.:081 12/03/2019 *Inv.no.: ENT/INV/1819/340 29/03/2019	27/03/2019	1046
10	Smart Luggage Carrier	Mrs. M.L. Keote	10183	*Inv.no.:6711 15/03/2019 *Inv.no.: 01/03/2019	30/03/2019	1182
11	Coin Based Smart Water dispensing Using Image Processing	Mrs. M.L. Keote	2915	*Inv.No.:SE/305 09/03/2019 *Inv.No.:SC/NOV/0245 19/11/2018	19/03/2019	974
13	Smart seatbelt system using GSM	Mrs. S.S. Chiwande	3341	*Inv.no.:order no.61644427 14/2/2019	28/3/2019	1102
14	Measure the performance of AC Electric motor using wireless smart meter	B.Y. Masram	1980	*Inv.no.:372 01/03/2019 *Inv.no.:254 02/01/2019	11/3/2019	906
15	Handheld Device for Disabled Person.	Mrs. A.V. Chaudhari	8565	*Inv.no.:015 22/01/2019	30/3/2019	1157



Yeshwantrao Chavan College of Engineering

Nagar Yuwak Shikshan Sanstha's
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
 Hingna Road, Wanadongri, Nagpur - 441 110
 NAAC Accredited with 'A' Grade,
 Ph.: 07104-242919, 242623, 242588
 Website: www.ycce.edu E-mail : principal@ycce.edu

Sr. No.	Name of Project	Name of Guide	Amount	Bill No.& Bill Date	Gate pass Date	Gate Entry No.
16	Automated waste segregation system	Mr.A.A.Madankar	3907	*Inv.no.:-277 20/03/2019	30/03/2019	1183
17	PLC based bottle filling and capping System	Mr. R.P. Kamdi	13054	*149 3/09/2018 *463 5/12/2018 *699 25/9/2018 *Inv.No.IN-38 16/11/2018 *Inv.No.IN-90 05/12/2018 *Inv.No.ZSBH-14475 5/12/2018	29/03/2019 29/03/2019 29/03/2019 29/03/2019 29/03/2019 29/03/2019	1103 1104 1105 1106 1107 1113
18	Mobile Health Monitoring System	Mr. Y.S.Kale	6324	*Inv.no.:-494 13/03/2019 *Inv.no.:-500 10/1/2019 *Inv.no.:-253 02/01/2019 *Inv.no.:T/3546/18-19 17/12/2018	25/03/2019 25/03/2019 25/03/2019 25/03/2019	998 997 996 995
19	Portable Fuel Adulteration detection system	Ms.M.S. Patil	5215	*Inv.no.:-76 24/01/2019 *Inv.no.:-837 20/09/2018 HYD8-2949284 18/09/2018 *Inv.no.:-829 27/12/2018	30/03/2019 30/03/2019 30/03/2019 30/03/2019	1193 1194 1195 1196
20	Dam safety & water manegment using IOT	Dr. P.D. Dorge	5277	*Inv.no.:- 32991/2017- 2018/19848/9/9/2018	9/9/2018	1207
Total Amount			1,44,413/-			

PRINCIPAL
Ycce,nagpur

FOR NA

17.05.19

Accountant

HoD ET DEPT

(Signature)

Dr. M.S. NARLAWAR

Head of Department
Electronics & Tele Communication Engg.
YCCE, Nagpur

NOTE TO THE PRINCIPAL

YESHWANTAO CHAVAN COLLEGE OF ENGINEERING
APPROVAL FOR PROJECT EXPENSES

Department : Computer Technology

Academic Session 2018-2019

Title of Project (2)	Name of Students (3)	Roll No. (4)	Likely Date of Commencement & Completion of Project		Estimate of Project			Total Estimated Cost (a) + (b) + (c) (8)	Remark (9)
			Commencement (5)	Completion (6)	(a) Cost of Major Components (Rs.)	(b) Fabrication Cost (Rs.)	(c) Other Expenses (Rs.)		
Student attendance system using finger print	Utkarsha Rangari	38	7 August 2018	30 March 2019	8000			8000	
	Yashashree Khodke	40							
	Shubham Hirekhan	81							
	Harikrishna Maddikunta	52							
Car anti-theft system using GPS and GSM module	Piyush Rewatkar	161	7 August 2018	30 March 2019	2910			2910	
	Shantanu Mankar	165							
	Tejas Atram	167							
	Sweety Awachat	137							
	Harshal Khapekar	153							
Smart traffic light control system	Aditi Patwardhan	102	7 August 2018	30 March 2019	6734			6734	
	Goldi Netam	114							
	Mrunali Ramteke	118							
	Kasturi Mandavgade	116							
Automated oil testing using IOT	Pankhuri Kamdi	19	7 August 2018	30 March 2019	8014			8014	
	Rutuja Khandait	28							
	Samruddhi Ramteke	29							
	Shital Kale	32							
	Mrinal Kopolkar	16							
			7 August 2018	30 March 2019	2000			2000	

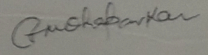
Date: 27/4/19

NOTE TO THE DEPARTMENT

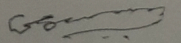
ATM	Kshitija Kakde	13						
QR code	Shivani Pawar							
Geometric		33						
Location								
Cloud based	Ashruti Hanskar	6	7 August 2018	30 March 2019	2853			
Smart crop	Payal Tangadpalliwar	20					2853	
Irrigation	Shivani Chintawar	132						
Monitoring	Priyanka Pimpalkar							
Weather		127						
GIS								
Smart System	Tanvi Ninawe	51	7 August 2018	30 March 2019	4384			
Water and	Kshitija Deshmukh	68					4384	
Management	Swagata Dakre	55						
Using IOT	Saurabh Salame							
		45						
Thoughts to	Saurabh Charde	77	7 August 2018	30 March 2019	11000			11000
Improvements-	Apurva Sarve	5						
For imagery								
Based brain	Sachine Warbhe	73						
Computer								
Interface	Rutuj Waghare	72						

Remarks By Head of the Department - Recommended - no. of project - 8

Total Estimated Cost Rs.- Rs. 45,895/- (Forty Five Thousand Eight Hundred Ninety Five only)


Signature of Head of the Department.

Approved / Not Approved


Principal

Yeshwantrao Chavan College of Engineering
Hingna Road Wanadongri,
NAGPUR - 441110

Jain Sachin
Ledger Account
9730870809

1-Apr-2018 to 2-Nov-2018

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
1-4-2018	By Opening Balance				16,557.00
9-4-2018	To Tirupati Urban Co-Operative Bank Ltd., 130	Bank Payment	YCCE/BP/ 60	16,557.00	
	Cheque 005990	9-4-2018	15,700.00 Cr		
	Cheque 005991	9-4-2018	857.00 Cr		
	<i>Cheque No. 005990 Your Self issued to Dr Ravi B Mishra Rs. 15,700/- & Cheque No. 005991 Date-09.04.2018 issued for expenses incurred during Guest Lecture.</i>				
27-4-2018	By Provision for Student Project Expenses	JOURNAL_	YCCE/ JV- 40		4,450.00
	<i>Towards expenses incurred for student project expenses for Information Technology Dept. [ROBO Studio] bill no. 120 Date-12.03.2018 [Hitesh Shende & Shraddha Pimpikar]</i>				
	By (as per details)	JOURNAL_	YCCE/ JV- 43		4,680.00
	FAREWELL EXPENSES	14,430.00 Dr			
	TDS - Contractor - 94 C	195.00 Cr			
	Shree Taj Sakhe Sai Caters & Foods	9,555.00 Cr			
	<i>being expenses incurred for Farewell Program for final year students of dept of IT on 03.04.2018. as per details attached.</i>				
23-6-2018	To Tirupati Urban Co-Operative Bank Ltd., 130	Bank Payment	YCCE/BP/ 612	4,680.00	
	Cheque 006765	23-6-2018	4,680.00 Cr		
	<i>Cheque No. 006765 Date-23.06.2018 issued for expenses incurred during Farewell Program for Final year students.</i>				
21-9-2018	To Cash	Cash Payment	YCCE/CP/ 552	10,000.00	
	<i>Being advance cash paid to Mr. Sachin Jain against visiting professor scheme dt of settlement-05.10.2018</i>				
9-10-2018	By (as per details)	JOURNAL_	YCCE/ JV-1009		38,412.00
	Visiting Professor	41,412.00 Dr			
	TDS - Professional - 94 J	3,000.00 Cr			
	<i>30000 x 10% [A R N P S 6899 R] DR. D. K. SRIVASTAVA</i>				

TIRUPATI URBAN CO-OPERATIVE BANK LTD.
Shradhanand Path Branch, 172, Shradhanand Path
South Ambazari, Nagpur-440010.
IFS CODE : HDPCULT0802

A/c Payee

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE
Date
दिनांक 24 10 2018
D D M M Y Y Y Y

Sachin Jain TUCB-9013

or Bearer

Four Thousand Four Hundred Fifty Only

₹ **4,450.00

Current A/c. No.: 002002100000130

Sachin Jain
[Signature]
YESHWANTRAO CHAVAN COLLEGE OF ENGG.

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.yccc.edu

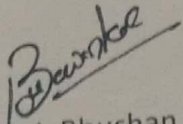
Department of Information Technology

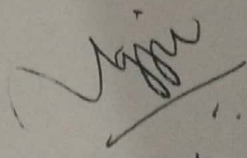
DATE :- 2/4/18

NOTE TO THE PRINCIPAL

Final Year students of Information Technology Department require the financial assistance to purchase some hardware equipment for completion of their projects. As these equipments are not available in the YCCE store, the projectees need your permission & approval to purchase it. The respective guides of the projects also have recommended the same for approval.

Total amount required is Rs. 2212/-. Details about the Project & equipment are attached with this notesheet.


Shri. Bhushan U. Bawankar
Project Co-ordinator


Dr. U.H. Gawande
HOD, IT

Yeshwantrao Chavan College of Engineering

Hingna Road Wanadongri,
NAGPUR - 441110

Shende S. W.

Ledger Account
9765326126

1-Apr-2018 to 2-Nov-2018

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
8-5-2018	By Student Project Expenses	JOURNAL_	YCCE/ JV- 111		2,560 00
	Primary Cost Category				
	Information Technology	2,560.00 Dr			
	Primary Cost Category				
	Information Technology	2,560.00 Cr			
	<i>Towards expenses incurred for student project, "Smart Fan with Temperatur control & Direction Sensor "student of IT Dept [Chaitali Kaurase, Snehal Dhokane, Vaibhavi Ande & Darshan dengale]</i>				
26-7-2018	To Cash	Cash Payment	YCCE/CP/ 339	2,000.00	
	Primary Cost Category				
	Information Technology	2,000.00 Dr			
	<i>Being Advance cash paid to Mr Shailendra W Shende for BOS meeting on 28.07.2018 settlement date-04.08.2018</i>				
31-7-2018	By (as per details)	JOURNAL_	YCCE/ JV- 585		8,166.00
	BOS (Autonomy)	1,866.00 Dr			
	Primary Cost Category				
	Information Technology	1,866.00 Dr			
	BOS (Autonomy)	7,000.00 Dr			
	Primary Cost Category				
	Information Technology	7,000.00 Dr			
	TDS - Professional - 94 J	200.00 Cr			
	Primary Cost Category				
	SACHIN SATHE	200.00 Cr			
	<i>2000 10% [PAN-A E H P S 8540 Q</i>				
	TDS - Professional - 94 J	200.00 Cr			
	Primary Cost Category				
	DESHPANDE U A	200.00 Cr			
	<i>2000 X 10% [PAN- A B I P D 6199 Q]</i>				
	TDS - Professional - 94 J	200.00 Cr			
	Primary Cost Category				
	UMRE PARIKSHIT	200.00 Cr			
	<i>2000 X 10% [PAN-A A I P I Y 7920 R]</i>				
	TDS - Professional - 94 J	100.00 Cr			
	Primary Cost Category				



TIRUPATI URBAN CO-OPERATIVE BANK LTD.

Shraddhanand Peth Branch, 172, Shraddhanand Peth
South Ambrazari, Nagpur 440010.
IFS CODE : HDFC0CTUB02

A/c Payee

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

Date
दिनांक

or Bearer

Pay **Shailendra Shende Tucb-6373**

Rupees रुपये **Two Thousand Five Hundred Sixty Only**

अदा करे।

₹ ****2,560.00**

Current A/c. No.: 002002100000130

Shailendra Shende

YESHWANTRAO CHAVAN COLLEGE OF ENGG.

Please sign above

⑈007095⑈ 440344002⑈ 000130⑈ 11

Yeshwantrao Chavan College of Engineering
 Hingna Road Wanadongri,
 NAGPUR - 441110

Dharmik R C
 Ledger Account
 9890388301

1-Apr-2018 to 2-Nov-2018

Page 1
 Credit

2,846.00

Date	Particulars	Vch Type	Vch No.	Debit	Credit
8-5-2018	By Student Project Expenses Primary Cost Category Information Technology	JOURNAL_	YCCE/ JV- 112	2,846.00 Dr	
	Information Technology			2,846.00 Cr	
	Towards expenses incurred for student project, "Portable Tracking Device/ System. "student of IT Dept [Abhishek Hadaoo, Amol Wadhone Rakesh Kumar & Swapnil Gokhale]				
23-10-2018	To Tirupati Urban Co-Operative Bank Ltd., 130 Cheque Primary Cost Category Information Technology	Bank Payment 006922 23-10-2018	YCCE/BP/ 1596	2,846.00 Cr	2,846.00
	Ch. no. 006922 dt. 23.10.18 issued towards expenses of student project on Portable tracking device/system				
				2,846.00	2,846.00



TIRUPATI URBAN CO-OPERATIVE BANK LTD.

Shradhanand Peth Branch, 172, Shradhanand Peth
 South Ambrazari, Nagpur 440010.
 IFS CODE : HDFCOCTUB02

A/c Payee

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE
 Date दिनांक 2 3 1 0 2 0 1 8

R.C. Dharmik Tucb- 2221

or Bearer

rupees रुपये

Two Thousand Eight Hundred Forty Six Only

अदा करें।

₹ **2,846.00

Current A/c. No.: 002002100000130

Dharmik R C

[Signature]

[Signature]

YESHWANTRAO CHAVAN COLLEGE OF ENGG.

Please sign above

⑈006922⑈ 440344002⑈ 000130⑈ 11



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

DEPARTMENT OF CIVIL ENGINEERING

No : - YCCE/CE//NOTICE/18-19/103

NOTE


Date: 15th JUNE 2019

To,
Principal,
Yeshwantrao Chavan College of Engineering
Wanadongri, Nagpur

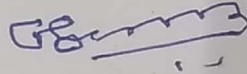
Subject: - Reimbursement of Project Bill of UG & PG Student 2018-19

Sr.No.	Name of Project	Name of Guide	Name of Student	Amount
1	To Investigate the Optimization of Pile Foundation System In High Rise Building.	Kurzekar A. S.	Bhushan Itankar	2250.00
2	Study the various computing methods and developers the rapid methd of computing	Khandeshwar S.R.	Rasika Rajesh Wasni	860.00
3	Water tratment by Application of Hybid electrocoagulation-	ANSARI KHALID SHAMIM	Shrutika Bhute	8529.00
4	Study of effect of Various parameters on optima dose-	Ambekar S.V.	Tejaswini Niwal	2980.00
5	Grey water Tratment by Fixation Process- Gude Nam	ANSARI KHALID SHAMIM	Shrushwat Bhagat, Apruva Bhojar, Sayali Wankhede, Jatiin Sorte, Pradnys Meshram, Pratik Borade	3032.00
6	Proformance Analysis of Drawr Compared sand Filter-	Waghmare C S	prajakta Parate	9822.00
7	lab Scale Study on measurement of Grey work using Filtration Process	Waghmare C S	Hiansu Pathak, Gayatri Burkude, Tanvi Thak, Shumbham , Hote	2670.00
8		Kurzekar A. S.		2537.00
9	Biogas Digestor	Warade Harshal	Kalyani Kathane]	11800.00
10	Partiual replacement of ASS by aartificialial sand & goe plymer sand in low grade concrete-	Deotale R.S.	Sneha Borkar	12061.00

11	Partiual replacement of ASS by aartificialial sand & goe plymer sand in low grade concrete	Deotale R.S.	Anju Shendre	13241.00
			Total	69782.00


Dr. S.R.KHANDESHWAR
Head, CE, YCCE, Nagpur.

PRINCIPAL
YCCE, NAGPUR





Department of Electrical Engineering

Reimbursement of project bill UG/PG student-18-19

Year	Name of Faculty	Purpose of grant	Funds/ Grants received (INR in lakhs)	COST CENTER
2018-19	(S.G. KADWANE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.06502	Electrical Engg
2018-19	(R.N. NAGPURE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.0506	Electrical Engg
2018-19	(S.P. NAGPURE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.08385	Electrical Engg
2018-19	(P.B. JOSHI)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.07333	Electrical Engg
2018-19	(P.S. PATIL)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.13243	Electrical Engg
2018-19	(S.P. ADHAU)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.05418	Electrical Engg
2018-19	(P.M. MESHRAM)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.02945	Electrical Engg
2018-19	(A.Y. FADNIS)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.12908	Electrical Engg
2018-19	(A.P. MUNSHI)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.13254	Electrical Engg
2018-19	(P.S. SHETE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.02128	Electrical Engg
2018-19	(R. M. MOHRIL)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.06818	Electrical Engg
2018-19	(S.B. REWATKAR)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.0801	Electrical Engg
2018-19	(P.S. SHETE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.08896	Electrical Engg
2018-19	(X.A. POTL)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.02814	Electrical Engg



Nagar Yuwak Shikshan Sanstha's


Yeshwantrao Chavan College of Engineering

An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Himgna Road, Wanadongri, Nagpur - 441 110

2018-19	(S.G. KADWANI)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.06986	Electrical Engg
2018-19	(S.P. GAWANDE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.04162	Electrical Engg

Project Coordinator

U.V. Waghmare


Principal

 (Dr. B. Y. Bagde)
HOD, EL, YCCE

Estimate of Project Expenses

Annexure "A"

Name of Institution : Yeshwantrao Chavan College of Engineering, Nagpur

Academic Session :2018-19

Department : Electronics Engineering
UG

Sr. No.	Title of Project	Name of Students	Roll No.	Likely Date of Commencement & Completion of Project		Estimate of Project			Total Estimated Cost (a) + (b) + (c)	Guide Name Remark
				Commencement	Completion	(a) Cost of Major Components (Rs.)	(b) Fabrication Cost (Rs.)	(c) Other Expenses (Rs.)		
1	A high speed and energy efficient Full Adder Design	Pranay Kalbhut	55	Jul-18	Apr-19	2,298.72			2,298.70	Dr. P. P. Zode
		Akanksh Makawade	1							
		Vedant Dhoble	67							
		Vaishnavi Dhote	28							
2	Quadcopter-A Smarter Way of Pesticide Spraying	Nagesh Jankwade	143	10-Aug-18	31/3/19	15,143			15,143	Dr. Y. A. Gaidhemi
		Sanjay Kamble	68							
		Vaishnavi Pathe	142							
		Pratiksh Dange	11							
		Akanksh Wagh	33							
		Minal Gade	29							
3	Alert System to prevent animal Vehical Collision	Neha Avghade	12	20-Sep-18	23-Mar-19	4,538			4,538	Prof. Aniket Gokhale
		Shryas Partke	52							
		Rushikesh Joshi	29							
		Kajal Humane	9							
4	Smart Electricity meter with load theft Detection	Prachi Nandeshwar	14	5/8/2018	12/3/2019	5,639			5,639	Mrs. T. G. Panse
		Latika Kokade	32							
		Kajal Wankhede	31							
		Pranali Kirpade	16							
5	Multifunctional Autonomus Farmingbot	Renuka Hole	22	Jul-18	Apr-19	9,440			9,440	Prof. M. S. Pawar
		Vaishnavi Turasakar	27							
		Aditya Matharkar	38							
		Purva Madan	20							
6	Glass Cleaner	Nikita Pal	30	Jul-18	Apr-19	6986..70			6986..70	Dr. P. M. Palsodkar
		Shubham Sonarkar	63							
		Mohsin Shekh	51							
		Kaustubh Wakodkar	164							
7	Survillence Robot for surface	Nakul Rastogi	144	Jun-19	Mar-19	9,737			9,737	Dr. R. D. Thakre
		Kartik Gopal	141							
		Vaishali Korde	121							
		Devvyabni Kadu	105							

18-19

9
ty)

8	Arduino data glass	Amit Khawze	131	Apr-18	18/3/19	15,983	15,983	Mrs. P.P. Zode
		Tojas Dhomine	160					
		Harshal Shambharkar	137					
		Chanden Uikay	135					
9	Design of Rectangular Microstrip Antenna with DGS at 2.45 G	Athrav Parkhi	70	20.6.18	30.3.19	3,486	3,486	Prof. A.B. Thate
		Mansi Vibhute	30					
		Pragati Godhane	15					
		Srvesh Sahestrabudhe	60					
Total							73,251	
PG								
1	IOT Based facility smart phone security system	Kajal Ambadkar		18-Jul	April, 19	4,632	4,632	Dr. P.K. Dakhole
2	E Shape Patch Antenna Array with DGS	Priyanka Sonkar		18-Jul	April, 19	3520	3520	Prof. A.B. Thate
Total						8152	8152	

Remarks By Head of the Department - Recommended - no. of project - 09 PG-02
 Total Estimated Cost Rs. 81,403.00

Okant
 Signature of
 Head of the Department.

Approved / Not Approved
GB
 Principal



Chavan
Principal
 Yashwantrao Chavan
 College of Engineering
 Wanadongri Hingna Road,
 NAGPUR-441110

First Page of Research Base Project Reports

CERTIFICATE OF APPROVAL

Certified that the project report entitled "*Smart Energy Monitoring System for Offices*" has been successfully completed by **Sunil Prajapat, Mrunali Dhenge, Pranay Chacherkar and Tejas Munghate** under the guidance of **Mr. Nikhil Mangrulkar** (Dept. of Computer Technology) and **Mr. Prasad Joshi** (Dept. of Electrical Engineering) in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, **Yeshwantrao Chavan College of Engineering, Nagpur** (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*).

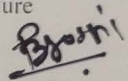
Signature



Mr. Nikhil Mangrulkar

(Guide)

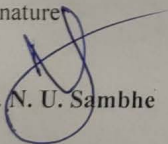
Signature



Mr. Prasad Joshi

(Guide)

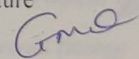
Signature



Mr. N. U. Sambhe

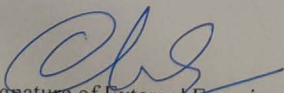
(Co-Ordinator)

Signature



Dr. G. M. Dhopavkar

(HOD, C.Tech Dept.)



Signature of External Examiner

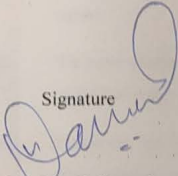
Name: **C. V. Chauhan**

Date of Examination: **6/5/19**

CERTIFICATE OF APPROVAL

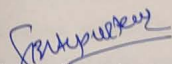
Certified that the project report entitled "*MahaDarshan - Maharashtra Tourism Application*" has been successfully completed by Snehal Yaglewad, Ashutosh Meghe and Yogesh Malkhede under the guidance of Prof. L. B. Damahe in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

Signature



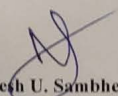
Prof. L. B. Damahe
(Guide)

Signature



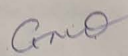
Prof. S. Ardhapurkar
(Co-Guide)

Signature



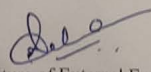
Prof. Nilesh U. Sambhe
(Coordinator)

Signature



Dr. G. M. Dhopavkar
(HOD, C.Tech. Dept.)

Signature of External Examiner:



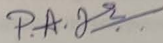
Name: Dr. (Mrs.) A.V. Delankar

Date of Examination: 06/05/2019

CERTIFICATE OF APPROVAL

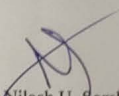
Certified that the project report entitled "*Smart Shopping Trolley*" has been successfully completed by Nikita Kamble, Samruddhi Totade, Priyadarshani Ambarwar, Nidhi Batra under the guidance of **Prof. Prarthana Deshkar** in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*).

Signature

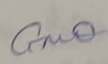


Mrs. Prarthana Deshkar

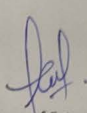
(Guide)



Mr. Nilesh U. Sambhe
Signature
(Co-ordinator)



Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)



Signature of External Examiner

Name:

Prof. Animesh Tajal.

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IoT BASED SMART ENERGY METER" has been successfully completed by

Kaustubh Dane

Latit Munne

Akanksha Dhabarde

Ankita Dharmadhikari

Mrinali Mankar

Nikita Patil

Prachi Gourkhede

Shradha Suryawanshi


Yashoda Manthanwar

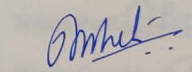
under the guidance of


Mr. N. U. Sambhe

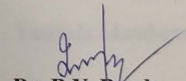
Mr. P. S. Shete


In recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**, Nagpur.


Mr. N.U. Sambhe
(Guide CT Dept.)


Mr. P.S. Shete
(Guide EL Dept.)


Dr. G.M. Dhopavkar
(HOD CT Dept.)


Dr. B.Y. Bagde
(HOD EL Dept.)

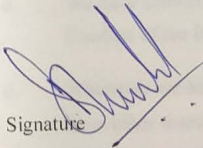

Signature of External Examiner

Name:- **Animesh Jyoti**

Date of Examination **6/5/20**

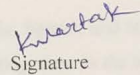
CERTIFICATE OF APPROVAL

Certified that the project report entitled "*Multidimensional Data analysis to support Decision Making*" has been successfully completed by Aarjavi Bhombe, Ksitij Walukar and Yash Thakare under the guidance of **Dr. Shailesh D. Kamble** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



Signature

Dr. Shailesh D. Kamble
(Guide)



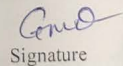
Signature

Kaustubh Vartak
(Industry-guide)



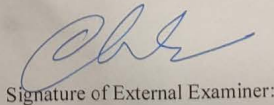
Signature

Mr. Nilesh U. Sambhe
(Coordinator)



Signature

Dr. G.M. Dhopavkar
(HOD, C.Tech. Dept.)



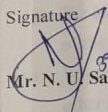
Signature of External Examiner:

Name: C.V. Chauhan
Date of Examination: 6/5/19

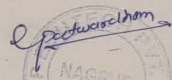
CERTIFICATE OF APPROVAL

Certified that the project report entitled "*College Search Portal*" has been successfully completed by **Ajinkya Ranade, Ravi Dhangar, Saurabh Nandeshwar and Yash G. Thakre** under the guidance of Mr. **N.U. Sambhe** and Mr. **Gandhar Patwardhan** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, **Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.

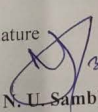
Signature


Mr. N. U. Sambhe
(Guide)


Signature


Mr. Gandhar Patwardhan
(S2P Edutech)

Signature


Mr. N. U. Sambhe
(Co-Ordinator)

Signature

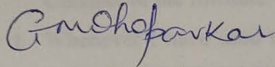

Dr. G. M. Dhopavkar
(HOD, C.Tech Dept.)

Signature of External Examiner

Name: **Dr. Neeta Thakre**
Date of Examination: **04/05/19**

CERTIFICATE OF APPROVAL

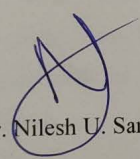
Certified that the project report entitled "DERIVATIONAL MORPHOLOGICAL ANALYZER" has been successfully completed by Ms. Aditi Kale, Mr. Yash Waghmare under the guidance of Dr. Gauri Dhopavkar in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



Dr. Gauri M. Dhopavkar

Signature

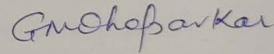
(Guide)



Mr. Nilesh U. Sambhe

Signature


(Co-ordinator)



Dr. G. M. Dhopavkar

Signature

(HOD, CT Dept.)



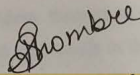
Signature of External Examiner:

Name: S. V. Balvir

Date of Examination: 06/05/19

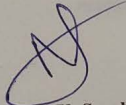
CERTIFICATE OF APPROVAL

Certified that the project report entitled "Smart Traffic Light Control System" has been successfully completed by ADITI PATWARDHAN, GOLDI NETAM, MRUNALI RAMTEKE, KASTURI MANDAVGADE under the guidance of Ms. SUPRIYA THOMBRE in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



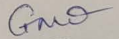
Ms. Supriya S. Thombre

(Guide)



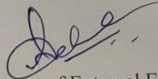
Mr. Nilesh U. Sambhe

(Coordinator)



Dr. G. M. Dhopavkar

(HOD, CT Dept.)



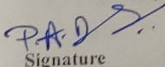
Signature of External Examiner:

Name: Mr (Mrs) A. V. Dehanur

Date of Examination: 06/05/2019

CERTIFICATE OF APPROVAL

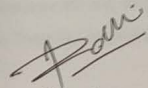
Certified that the project report entitled "Online Venue Booking System" has been successfully completed by Kalyani Ghangare and Prince Adhikary under the guidance of Prof. P. Deshkar in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Prof. P. Deshkar

(Guide)



Signature

Mr. Anup Pardhi

(Industry guide,

IT Networkz, Nagpur)



Signature

Mr. Nilesh U. Sambhe
(Co-ordinator)



Signature

Dr. G. M. Dhopavkar
(HOD, CT Dept.)



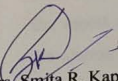
Signature of External Examiner

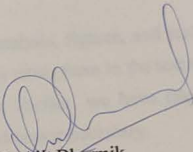
Name: S. U. Balvin


Date of Examination: 06/05/19


CERTIFICATE OF APPROVAL

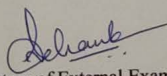
Certified that the project report entitled "Orange City Water Utility Dashboard" has been successfully completed by AYUSHI DHAWAN, YASH WAGHADE, YASH DHANDE under the guidance of **MRS. SMITA R. KAPSE** in recognition to the partial fulfillment for the award of the degree of Computer Technology, **Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**


Mrs. Smita R. Kapse
(Guide)


Mr. Ajit Dharmik
(Director,
6 Simplex Software Solution Pvt.
Ltd)

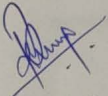

Mr. Nilesh U. Sambhe
(Co-ordinator)


Dr. G. M. Dhopavkar
(HOD, CT Dept.)

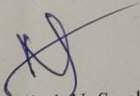

Signature of External Examiner
Name : Dr. (Mrs.) A. V. Dehankar
Date of Examination: 06/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "KIOSK DIGITAL NOTICE BOARD" has been successfully completed by KALYANI PIMPLE, HARSHAL ISHWAR, SHUBHAM WAGH, YASH DONGRE under the guidance of Prof. P. V. Barekar in recognition to the partial fulfilment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



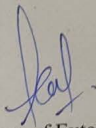
Prof. P. V. Barekar
(Guide)



Mr. Nilesh U. Sambhe
Signature
(Co-ordinator)



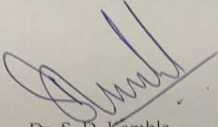
Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)



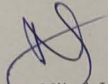
Signature of External Examiner
Name
Date of Examination:

CERTIFICATE OF APPROVAL

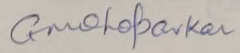
Certified that the project report entitled "IOT Based Automatic Street light Complaint System" has been successfully completed by Shubhangi Bandhate, Sayali Patle and Asmita Bondgulwar under the guidance of Dr. S. D. Kamble in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



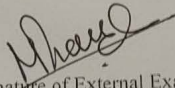
Dr. S. D. Kamble
(Guide)



Mr. Nilesh U. Sambhe
(Co-ordinator)



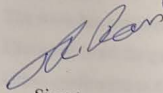
Dr. G. M. Dhopavkar
(HOD, CT Dept.)



Signature of External Examiner
Name
Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "*Peephole : A study and integration of google APIs*" has been successfully completed by Adhish Gomashe, Jay Bhoyar, Manish Doble, Rohan Dutta under the guidance of Prof. T. Ravi in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Prof. T. R. Ravi

(Guide)

Signature



Prof. Nilesh Sambhe

(Co-ordinator)



Signature

Dr. G. M. Dhopavkar

(HOD, C.T. Dept)

Signature of External Examiner:

Name:

Animesh Tayal


Date of Examination

6/5/19

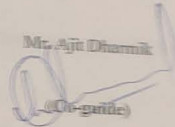
CERTIFICATE OF APPROVAL

Certified that the project report entitled "Monitoring and analysis of environmental parameters using IOT and GIS" has been successfully completed by Akhilesh Jalankar, Niraj Bhojwar, Pranay Girde, Shreyash Wanyavhare, Sujay Gijre under the guidance of Dr. Kavita Singh and Mr. Ajit Dharmik in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rustiramasrao Tukdoji Maharaj Nagpur University)


Dr. Kavita Singh




Mr. Ajit Dharmik




(Co-guide)



Prof. Nilesh U. Samthine
Signature
(Co-coordinator)



Dr. G. M. Dhapavkar
Signature
(BOD, CT Dept.)



Signature of External Examiner:

Name: S M MALODE

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "CARDLESS ATM USING QR CODE AND BIOMETRIC VERIFICATION" has been successfully completed by Kshitija Kakde, Mr. Bal Kopolwar and Shivani Pawar the guidance of Prof. P. V. Barekar in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



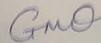
Mr. P. V. Barekar
(Asst. Professor)
(Guide)



Mr. Nikhilesh Wao
TCS, Nagpur
(Industrial Co-Guide)



Prof. G. U. Sambhe
(Coordinator)



Dr. G. M. Dhopavkar
(HOD, C. Tech. Dept.)



Signature of External Examiner:

Name:

Date of Examination:

CERTIFICATE OF APPROVAL

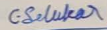
Certified that the project report entitled "Student Attendance System using Fingerprint" has been successfully completed by UTKARSHA RANGARI, SHUBHAM HIREKHAN, YASHASHREE KHODKE, HARIKRISHNA MADDIKUNTA under the guidance of **Prof. SUPRIYA THOMBRE** in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering,

Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji MaharajNagpur University)



Prof. Supriya Thombre

(Guide)



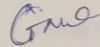
Mr. Chetan Selukar

(Co-Guide)



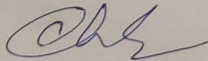
Prof. Nilesh U. Sambhe

(Coordinator)



Dr. G. M. Dhopavkar

(HOD, CT Dept.)



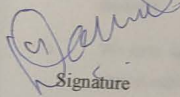
Signature of External Examiner:

Name: C. V. Chauhan

Date of Examination: 04/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Food Residue" has been successfully completed by Shrutika Maske, Mujna Sherwani and Sana Khan under the guidance of Prof. L. B. Damahe in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Signature

Prof. L. B. Damahe

(Guide)


Signature

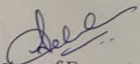
Mr. Nilesh U. Sambhe

(Coordinator)


Signature

Dr. G. M. Dhopavkar

(HOD, C.Tech. Dept.)

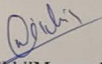

Signature of External Examiner:

Name: Dr. (Mrs.) A.V. Dehanekar

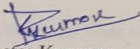
Date of Examination: 06/05/2019

CERTIFICATE OF APPROVAL

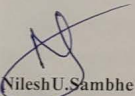
Certified that the project report entitled "MONITORING LOGISTICS THROUGH BLOCKCHAIN" has been successfully completed by Dhvani Kothari, Maitree Gawande, Ninad Deshmukh and Shivani Pande under the guidance of Mr. **Nikhil Mangrulkar** and co-guided by Ms. Preetee Karmore in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).


Mr. Nikhil Mangrulkar

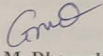
(Guide)


Ms. Preetee Karmore

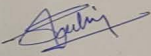
(Co-Guide)


Mr. Nilesh U. Sambhe

(Co-ordinator)


Dr. G. M. Dhopavkar

(HOD, C. Tech. Dept.)



Signature of External Examiner:


Name: S. U. Balvir

Date of Examination: 06/05/19


DECLARATION OF THE BOARD OF DIRECTORS


Resolved, that the project report entitled "THE APPLICATION OF COMBINATIONAL LOGIC DEVICES IN THE DESIGN OF A..." has been successfully completed by SUDESH KUMAR, B.TECH. ELECTRONICS AND COMMUNICATIONS ENGINEERING, 2019, under the guidance of Mr. SURESH KUMAR, M.TECH. ELECTRONICS AND COMMUNICATIONS ENGINEERING, PGPEEREE ENGINEERING COLLEGE OF ENGINEERING, TRIPUNITHURAI, DISTRICT OF KERALA, INDIA.



Mr. Suresh Kumar
Supervisor
(Signature)



Mr. S. S. Suresh
Supervisor
(Signature)



Mr. Suresh Kumar
Supervisor
(Signature)


Supervisor
(Signature)


Mr. Suresh Kumar
Supervisor
(Signature)

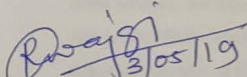

Supervisor
(Signature)


Supervisor
(Signature)

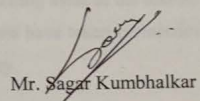

Supervisor
(Signature)

CERTIFICATE OF APPROVAL

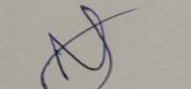
Certified that the project report entitled "Officebox Support Application" has been successfully completed by Ayushee Namaware, Rainy Ramteke, Hrishikesh Patil, Piyush Nandurkar under the guidance of Prof. Rakhi Wajgi in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Prof. Rakhi Wajgi

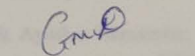
(Guide)


Mr. Sagar Kumbhalkar


(Co-Guide)


Mr. Nilesh U. Sambhe

(Co-Ordinator)


Dr. G. M. Dhopavkar

(HOD, CT Dept.)


Signature of External Examiner:
Name: C. V. Chauhan
Date of Examination: 06/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "CHILD VACCINATION PLATFORM" has been successfully completed by Ms. Purva Nattoo, Mr. Parag Khursange, Mr. M. Khopkar, Mr. Rushabh Datir, Mr. Ashish Mirase, Mr. Rajeev Kumar, Mr. Chaitanesh Deshpande & Mr. Zeeshan Ansari under the guidance of Dr. Gauri Dhopavkar in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

G.M.D.

Signature:

Name: Dr. G.M. Dhopavkar

(Guide)



A
Signature:

Name: Mr. Bhuwan K...

(Industry Guide)

(Persistent Systems Ltd)

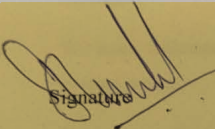
N.S.
Mr. Nilesh U. Sambhe
Signature
(Co-ordinator)

G.M.D.
Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)

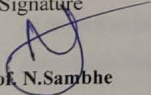
C.V. Chauhan
Signature of External Examiner
Name: C. V. Chauhan
Date of Examination: 6/05/19

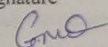
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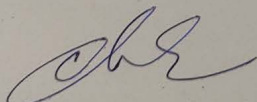
Certified that the project report entitled "Smart Irrigation System" has been successfully completed by Madhura Mohod, Neha Geed, Kartik Lokhande and Mehar Singh Khurana under the guidance of Prof. S. D. Kamble in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Signature
Prof. S.D. Kamble

(Guide)

Signature

Prof. N. Sambhe
(Coordinator)

Signature

Dr. G.M. Dhopavkar
(HOD, C.Tech. Dept.)

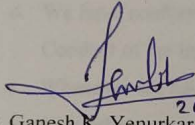

Signature of External Examiner:

Name: C. V. Chauhan

Date of Examination: 4/5/19

CERTIFICATE OF APPROVAL

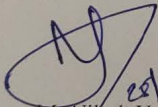
Certified that the project report entitled "IoT Based Smart Crop Field Irrigation Monitoring System using Weather API's" has been successfully completed by ASHRUTI HANSKAR, PAYAL TANGADPALLIWAR, PRIYANKA PIMPALKAR, SHIVANI CHINTAWAR under the guidance of Mr. GANESH K. YENURKAR in recognition to the partial fulfillment for the award of the degree of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



24/04/2023

Mr. Ganesh K. Yenurkar

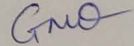
**Signature
(Guide)**



25/4/19

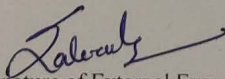
Mr. Nilesh U. Sambhe

**Signature
(Co-ordinator)**



Dr. G. M. Dhopavkar

**Signature
(HOD, CT Dept.)**



Signature of External Examiner

Name

Date of Examination:

CERTIFICATE OF APPROVAL

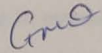
Certified that the project report entitled "*Custom ROM Using Google AOSP*" has been successfully completed by Saurav Mishra, Pranjal Malkehde, Sarang Umekar and Ankush Vitalkar under the guidance of Mrs. Nilima Jichkar in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Mrs. Nilima Jichkar

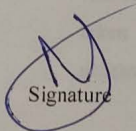
(Project Guide)



Signature

Dr. G. M. Dhopavkar


(HOD, Dept. of CT)



Signature

Mr. Nilesh Sambhe

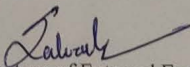
(Project Co-ordinator)



Signature

Mrs. Shweta Gode

(Project Co-ordinator)



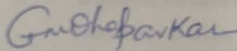
Signature of External Examiner:

Name: Prof. Malode

Date of Examination 04/05/19

CERTIFICATE OF APPROVAL


Certified that the project report entitled "Real Time Industrial Asset Monitoring" has been successfully completed by Runmai Kalamkar, Devunshi Chawda, Shantanu Vaidya and Pranay Choudhary under the guidance of Dr. G.M. Dhopavkar in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



Signature

Dr. G.M. Dhopavkar

(Guide)

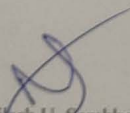


Signature

Mr. Maitreya Labhe

VSquare Systems Pvt. Ltd

(Industry Guide)

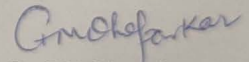


Mr. Nitesh U. Sambhe

Mrs. S.A. Gode

Signature

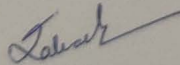
(Co-ordinators)



Dr. G.M. Dhopavkar

Signature

(HoD, C.Tech Dept.)



Signature of External Examiner :

Name : 04/02/2013

Date of Examination : PROF. MALODE

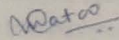
CERTIFICATE OF APPROVAL

Certified that the project report entitled "NOVEL APPROACH FOR AUTOMATED E-CHALLAN GENERATION USING QR CODE AND OCR" has been successfully completed by AISHWARYA DELKAR, ANUJA THAKARE, SAMIKSHA BOLAKHE, SWATI VAIDYA under the guidance of **NILIMA JICHKAR** in recognition to the partial fulfillment for the award of the degree of Computer Technology, **Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



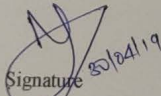
Signature

Nilima Jichkar
(Asst. Professor)
(Guide)

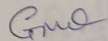


Signature

Anuradha Natoo
Oracle, Pune
(Industrial Co-Guide)

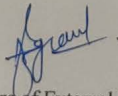


Signature
Prof. N. U. Sambhe
(Coordinator)



Signature

Dr. G.M. Dhopavkar
(HOD, CT Dept.)



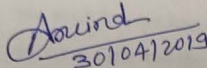
Signature of External Examiner:

Name:

Date of Examination:

CERTIFICATE OF APPROVAL

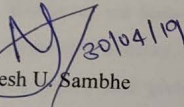
Certified that the project report entitled "Thoughts to Movements - Motor Imagery Based Brain Computer Interface" has been successfully completed by Saurabh Charde, Apurva Sarve, Sachin Warbhe, Rutuj Waghare under the guidance of Mr. A. R. Bhagat Patil in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


30/04/2019

Signature

Mr. A.R. Bhagat Patil

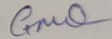
(Guide)


30/04/19

Mr. Nilesh U. Sambhe

Signature

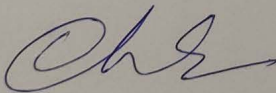
(Co-ordinator)



Dr. G. M. Dhobavkar

Signature

(HOD, CT Dept.)



Signature of External Examiner:

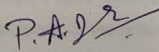
Name: C. V. Chauhan

Date of Examination:

CERTIFICATE OF APPROVAL


Certified that the project report entitled "*Smart Shopping Trolley*" has been successfully completed by **Nikita Kamble, Samruddhi Totade, Priyadarshani Ambarwar, Nidhi Batra** under the guidance of **Prof. Prarthana Deshkar** in recognition to the partial fulfillment for the award of the degree of Computer Technology, **Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).**

Signature

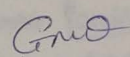


Mrs. Prarthana Deshkar


(Guide)



Mr. Nilesh U. Sambhe
Signature
(Co-ordinator)



Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)



Signature of External Examiner

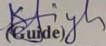
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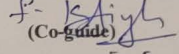
CERTIFICATE OF APPROVAL


Certified that the project report entitled "Landmark detection with speech for visually challenged people using OCR" has been successfully completed by Amitkumar Undirwade, Lavanya Rao, Sakshi Girhepunje, Yeshwant Choudhari under the guidance of **Dr. Kavita Singh** and Mr. Prasanna Deshpande in recognition to the partial fulfillment for the award of the degree of Computer Technology, **Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**

Dr. Kavita Singh

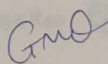

(Guide)

Mr. Prasanna Deshpande



(Co-guide)


Prof. Nilesh U. Sambhe

(Co-ordinator)


Dr. G. M. Dhopavkar

(HOD, CT Dept.)

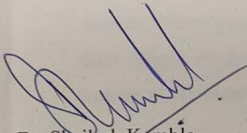

Signature of External Examiner:

Name:

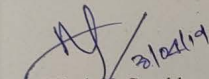
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CERTIFICATE OF APPROVAL

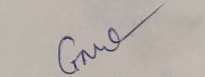
Certified that the project report entitled "VOICE ENABLED APPLICATION FOR PHYSICALLY CHALLENGED INDIVIDUALS" has been successfully completed by Poorva Datar, Prachi Malewar, Yuktee Ramteke under the guidance of Dr. Shailesh Kamble in recognition to the partial fulfillment for the award of the degree of Computer Technology, **Yeshwantrao Chavan College of Engineering, Nagpur** (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



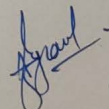
Dr. Shailesh Kamble
(Guide)



Mr. Nilesh U. Sambhe
(Coordinator)




Dr. G. M. Dhopavkar
(HOD, CT Dept.)




Signature of External Examiner
Name
Date of Examination:


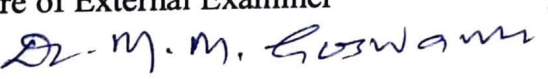
CERTIFICATE OF APPROVAL

Certified that the project report entitled "Face Recognition under Illumination Variation" has been successfully completed by Pooja S. Dubey under the guidance of **Dr. Kavita R. Singh** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**


Dr. Kavita R. Singh
Guide 13/05/2019


Ms. R. S. Khedgaonkar
PG Coordinator


Dr. Gauri Dhopavkar
HOD, CT


Signature of External Examiner
Name: 
Date of Examination: 13/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**Sentiment Classification of Movie Reviews by Supervised Machine Learning Approaches**” has been successfully completed by **Tejaswini Untawale** under the guidance of **Mrs. Gauri Chaudhary** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

Mrs. Gauri Chaudhary
(Guide)



Signature

Ms. Roshni S. Khedgaonkar
(Co-ordinator)



Signature

Dr. G.M. Dhopavkar
(HOD, CT Dept.)



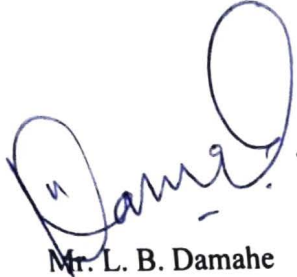
Signature of External Examiner

Name: **Dr. P.S. Prasad**

Date of Examination: **13.05.2019**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Image Retrieval using YCbCr color space and Quadtree Segmantation" has been successfully completed by Apurva K. Sahare under the guidance of **Mr. L.B. Damahe** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Mr. L. B. Damahe

Guide




Ms. R. S. Khedgaonkar

PG Coordinator



Dr. Gauri Dhopavkar

HOD, CT



Signature of External Examiner
Name: **Dr Dattesh Malik**
Date of Examination: **13/01/19**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Privacy Preservation and Public Auditing on Outsourced Cloud Data" has been successfully completed by **Sonali D.Khambalkar** under the guidance of **Dr. S. D. Kamble** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Dr. S. D. Kamble

Guide



Ms. Roshani Khedgankar

(PG Coordinator)



Dr. Gauri M. Dhopavkar

(HOD, CT)



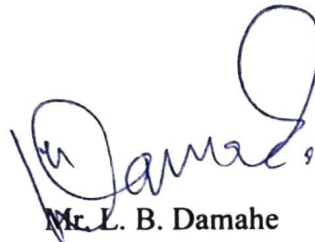
Signature of External Examiner

Name: *Dr. Geeta Tripathi*

Date of Examination: *13.05.2019*

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Image Retrieval using YCbCr color space and Quadtree Segmantation" has been successfully completed by Apurva K. Sahare under the guidance of **Mr. L.B. Damahe** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Mr. L. B. Damahe
Guide



Ms. R. S. Khedgaonkar
PG Coordinator



Dr. Gauri Dhopavkar
HOD, CT



Signature of External Examiner

Name: **Dr. Dilesh Malek**

Date of Examination: **13/5/19**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "**Securing Cloud By Enhancing Privacy Preservation And User Based Access Control Mechanism**" has been successfully completed by Shubham S.Chourasiya under the guidance of Prof. **A.R.Bhagat Patil** in recognition to the partial fulfillment for the award of the degree of **MTech in CSE** , Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


13/05/2019

Mr.Arvind R Bhagat Patil
Signature
(Guide)



Ms. Roshni S. Khedgaonkar
Signature
(Co-ordinator)



Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)



Signature of External Examiner
Name:

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "EEG Signal Classification Using Neural Network" has been successfully completed by Ashlesha Chakole under the guidance of Mr. Praful V. Barekar in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Mr. Praful V. Barekar

Guide



Ms. Roshni S. Khedgaonkar

Signature

Coordinator



Dr. G. M. Dhopavkar

Signature

HOD, CT



Signature of External Examiner

Name: A. M. M. Gowami

Date of Examination: 13/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Prevention and Detection of Cross-Site Scripting Attack" has been successfully completed by Ms. Shubhangi Ninawe under the guidance of Prof. Rakhi Wajgi in recognition to the partial fulfillment for the award of the degree of M-Tech in CSE . Yashwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

Signature

Name

Prof. Rakhi Wajgi
(Guide)



Ms. Roshni S. Khedgaonkar
Signature
(Co-ordinator)



Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)



Signature of External Examiner

Name Dr. Geeta Tripathi

Date of Examination:

13.05.19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "*Face Recognition using Probabilistic Approach under Plastic Surgery*" has been successfully completed by Kalyani Khobragade under the guidance of **Ms. R. S. Khedgaonkar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Technology, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

Ms. R.S. Khedgaonkar

(Guide)



Signature

Ms. R.S. Khedgaonkar
(Coordinator)



Signature

Dr. G. M. Dhopavkar
(HOD, C.Tech. Dept.)



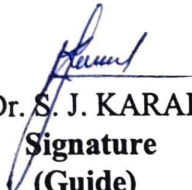
Signature of External Examiner:


Name: **Dr Dattesh Malik**


Date of Examination: **13/5/19**


CERTIFICATE OF APPROVAL

Certified that the project report entitled "Natural Language Retrieval of Images Based on Descriptive Caption" has been successfully completed by Naina Palandurkar under the guidance of **Dr. S. J. Karale** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur** (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*)


Dr. S. J. KARALE
Signature
(Guide)


Ms. Roshni S. Khedgaonkar
Signature
(Co-ordinator)


Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)


Signature of External Examiner
Name *Dr. Mrs. A. R. Mahajan*
Date of Examination: *13.5.2019*

CERTIFICATE OF APPROVAL

Certified that the project report entitled "*Face Recognition using Probabilistic Approach under Plastic Surgery*" has been successfully completed by Kalyani Khobragade under the guidance of **Ms. R. S. Khedgaonkar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Technology, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

Ms. R.S. Khedgaonkar

(Guide)



Signature

Ms. R.S. Khedgaonkar
(Coordinator)



Signature

Dr. G. M. Dhopavkar
(HOD, C.Tech. Dept.)




Signature of External Examiner:


Name: **Dr. Dattatraya Malik**


Date of Examination: **13/5/19**


CERTIFICATE OF APPROVAL

Certified that the project report entitled "Natural Language Retrieval of Images Based on Descriptive Caption" has been successfully completed by Naina Palandurkar under the guidance of **Dr. S. J. Karale** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur** (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*)


Dr. S. J. KARALE
Signature
(Guide)


Ms. Roshni S. Khedgaonkar
Signature
(Co-ordinator)


Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)



Signature of External Examiner
Name *Dr. Mrs. A. R. Mahajan*
Date of Examination: *13.5.2019*

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Multi-Document Text Summarization Using Neural Network" has been successfully completed by **Ms. Shweta V. Mokhale** under the guidance of **Dr. Gauri M. Dhopavkar** in recognition to the partial fulfillment for the award of the degree of **MTech in CSE**, **Yeshwantrao Chavan College of Engineering(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**

Signature

Name



Dr. Gauri M. Dhopavkar
(Guide)



Ms. Roshni S. Khedgaonkar
Signature
(PG Coordinator)



Dr. Gauri M. Dhopavkar
Signature
(HOD, CT Dept.)



Signature of External Examiner

Name: *Dr. Mrs. A. R. Mahajan*

Date of Examination: *13.5.2017*

CERTIFICATE OF APPROVAL

Certified that the project report entitled “Securing Cloud By Enhancing Privacy Preservation And User Based Access Control Mechanism” has been successfully completed by Shubham S.Chourasiya under the guidance of Prof. A.R.Bhagat Patil in recognition to the partial fulfillment for the award of the degree of MTechn in CSE, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

Arvind
13/05/2019

Mr.Arvind R Bhagat Patil
Signature
(Guide)

R

Ms. Roshni S. Khedgaonkar
Signature
(Co-ordinator)

G.M.Dhopavkar

Dr. G. M. Dhopavkar
Signature
(HOD, CT Dept.)

Arvind

Signature of External Examiner

Name:

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Sentiment Classification of Movie Reviews by Supervised Machine Learning Approaches" has been successfully completed by Tejaswini Untawale under the guidance of Mrs. Gauri Chaudhary in recognition to the partial fulfillment for the award of the degree of Master of Technology in Computer Science and Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Mrs. Gauri Chaudhary
(Guide)



Signature

Ms. Roshni S. Khedgaonkar
(Co-ordinator)



Signature

Dr. G.M. Dhopavkar
(HOD, CT Dept.)



Signature of External Examiner

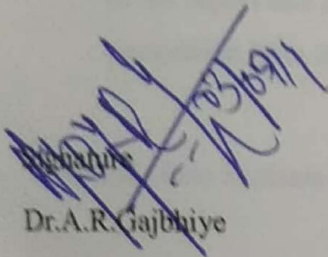
Name: Dr. P.S. Peesad

Date of Examination: 13/5/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "COMPARISON BETWEEN CONVENTIONAL AND ADVANCED WATER TREATMENT TECHNOLOGIES IN WATER TREATMENT PLANT" has been successfully completed by Pratik S. Patil, Umesh B. Dhembre, Yogesh H. Rathod, Abhishek D. Mokashi, Arshil Abid Hussain Shaikh and Tanmay Y. Baporikar under the guidance of **Dr. A. R. Gajbhiye** and under the co-guidance of **Er. Dhiraj Koche** in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Date: 3/5/2019


Signature
Dr. A. R. Gajbhiye

(Guide)


Signature

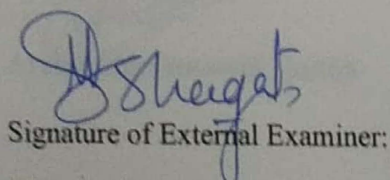
Dr. S. R. Khandeshwar

(H.O.D) (C.E. Dept)

Signature

Er. Dhiraj Koche

(Co-guide)

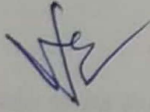

Signature of External Examiner:

Name:

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "WATER AUDIT OF WATER DISTRIBUTION NETWORK" has been successfully completed by Apurva Akre, Harshali Parate, Niharika Labhsetwar, Renuka Dashputre, Akhil Bele, Krishna Sharma under the guidance of **Dr. R. R. Dighade** and Mr. Sudhir Rathod in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



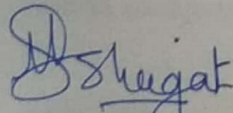
Dr. R.R. Dighade
Associate professor
Guide



Mr. Sudhir Rathod
Junior Engineer, NIT,
Nagpur
Co-Guide



Dr. S. R. Khandeshwar
HOD,
Civil Engineering
Department



Signature of External Examiner

Name **Dr. M. S. Bhugat**

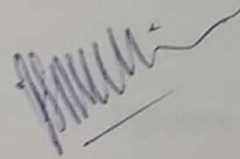
Date of Examination:

CERTIFICATE OF APPROVAL

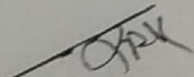
Certified that the project report entitled "EXPERIMENTAL INVESTIGATIONS INTO STRENGTH AND BEHAVIOUR OF COUPLED REBAR AND WELDED REBAR VIS A VIS ORIGINAL REBAR" has been successfully completed by Yogesh Telharkar, Rahul Nikose, Rushikesh Manjare, Mayur Gajarlawar, Adinath Kurme, Nikhil Hamane, under the guidance of **Dr. A.V.Patil** and Er. P. S. Patankar in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



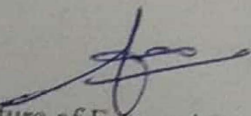
Dr.A.V.Patil
(Guide)



Er.P. S. Patankar
(Co-guide)
Director,
Patankar Consultants Pvt. Ltd.
Nagpur



Dr. S.R. Khandeshwar
(HOD, CE Dept.)



Signature of External Examiner:

Name: TKR

Date of Examination: 03/05/2019

CERTIFICATE OF APPROVAL

Certified that the project entitled LABORATORY METHOD FOR DETERMINE BEARING CAPACITY OF SOIL has been successfully completed by Amul Daharwal, Rohit Wagh, Kaustubh Dhurve, Kunal Mullewar, Mangesh Madavi, Amit Gajbhiye. Under The Guidance Of Pro. J. M. Raut in recognition to partial fulfilment for the award of the degree of Bachelor of Technology in Civil Engineering, Yeshwantrao chavan college of Engineering (An Autonomous Institution Affiliated To Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur)

DATE: / /2019


Signature

(R. S. Mahabudhdhe)



Signature

(Pro. J. M. Raut)



Signature

(Dr. Dilip Mase)



Signature

(HOD Dr. S. R. Khandeshwar)



Signature

(Principal Dr. U. P. Waghe)

Signature of External Examiner:-

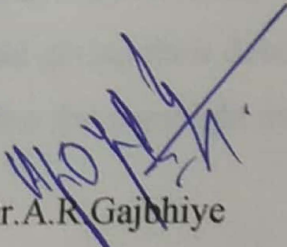


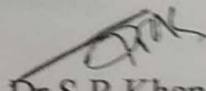
Name:- P. B. Rulkarni

Date of Examination:- 06/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report “ DESIGN AND WORKING OF UPPER WARDHA DAM ” has been successfully completed by Prajakta chavan , Vaishali Moitra , Neha Vaidya, Prachi Kalamkar , Heena Kadu , Shreya Mahakalkar under the guidance of Dr.A.R.Gajbhiye and Co guide Dr.Madhuri Bhagat ,in recognition to the fulfillment for the award of the degree of bachelor of technology in Civil Engineering. Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Dr. A.R. Gajbhiye
(Guide)


Dr. S.R. Khandeshwar
(HOD, C.E Dept)

Dr. Madhuri Bhagat

(Co. Guide)

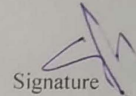
Signature of External Examiner:

Name: Dr. M.S. Bhagat

Date of Examination:

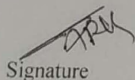
CERTIFICATE OF APPROVAL

This is Certified that the project report entitled "A STUDY ON PERFORMANCE EVALUATION OF DOMESTIC PURIFIERS" has been successfully completed by Ashlesha Kale, Parag Kewat, Pratik Maind, Rohit Pardeshi, Sanju Saji and Shubham Katre under the guidance of Prof. S. M. Waghmare in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



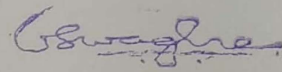
Signature

Prof. S. M. Waghmare
(Project Guide)



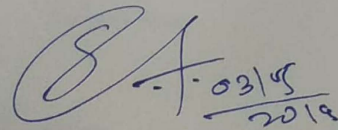
Signature

Dr. S. R. Khandeshwar
(HOD, CE DEPT.)



Signature

Dr. U. P. Waghe
(Principal)



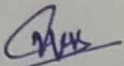
Signature of External Examiner:

Name: Sumdeep R. Patil

Date of Examination:

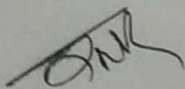
CERTIFICATE OF APPROVAL

Certified that the project report entitled "TO STUDY EFFECT OF PARTIAL REPLACEMENT OF CEMENT WITH HYPOSLUDGE" has been successfully completed by Nikhil Dodke, Vaibhav Borkar, Abhijit Meshram, Akshay Bahirwar, Mayur Thaokar under the guidance of Prof. V.N.Mendhe in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



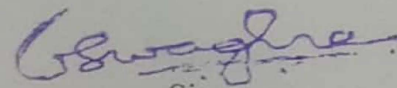
Signature

Prof. V.N. Mendhe
(Project Guide)



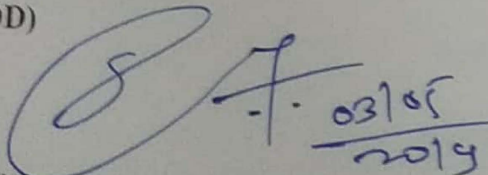
Signature

Dr S.R. Khandeshwar
(HOD)



Signature

Dr. U.P. Waghe
(Principal)



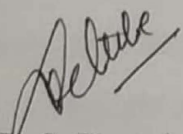
03/05
2019

Signature of External Examiner:

Name: Samdeep R. Gaikwad
Date of Examination

CERTIFICATE OF APPROVAL

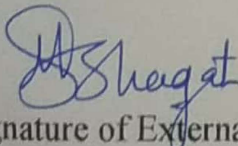
Certified that the project report "**Design And Analysis Of Row Housing**" has been successfully completed by Aniket Dhoble , Megha Itkapalle , Samradhny Bramhankar, Pragati Gajbhiye , Prajwal Bharadkar , Mohit Kawale under the guidance of Prof. R. S. Deotale , in recognition to the fulfillment for the award of the degree of bachelor of technology in Civil Engineering. **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Prof. R. S. Deotale
(Guide)



Dr. S. R. Khandeshwar
(HOD, C.E Dept)



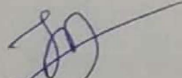
Signature of External Examiner:

Name:

Date of Examination:


CERTIFICATE OF APPROVAL

Certified that the project report entitled "APPLICATION STUDY OF PRECAST PANEL FOR IMPROVEMENT OF FLEXIBLE PAVEMENT", has been successfully completed by Shivani Mahajan, Akshay More, Shubham Gambhire, Samruddhi Sawarkar, Piyush Kherde under the guidance of Prof. Y.P.Kherde in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukdoji Maharaj, Nagpur University).



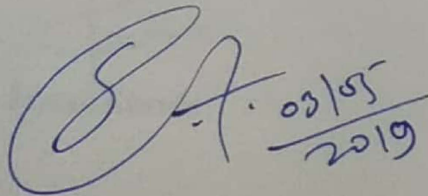
Signature

Prof. Y.P.Kherde
(Project Guide)



Signature

Dr. S.R.Khandeshwar
(H.O.D of Civil Department)

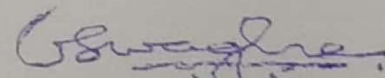


Signature of External Examinar

Signature of External Examinar

Name Somdip. R. Chaudhary

Date of Examination

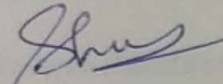


Signature

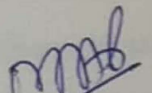
Dr. U.P. Waghe
(Principal, YCCE)

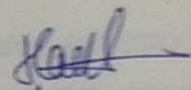
CERTIFICATE OF APPROVAL

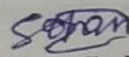
Certified that the project report entitled "APPLICATION OF GEOGRIDS IN IMPROVEMENT OF FLEXIBLE PAVEMENT" has been successfully completed under the guidance of Prof. Y.P. Kherde in recognition to the partial fulfilment for the award of the degree of Master of Technology in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) by the following students:



Shubham Katyarmal

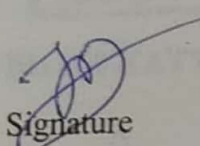

Bharat Manghani

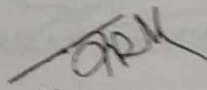

Mrudul Pantawane

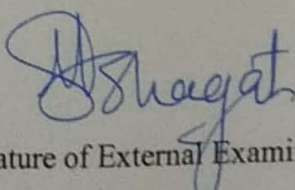

Harsh Choubey


Sohan Lal


Yash Balani


Signature
Prof. Y. P. Kherde
(Guide)



Signature
Dr. S. V. Khandeshwar
(HOD, CE Dept.)



Signature of External Examiner
Name

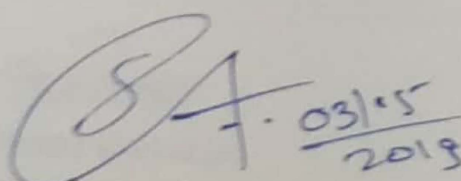
Date of Examination:

Certificate of Approval

Certified that the project report entitled "*Design and Development of Paver Block by Using Plastic Waste*" has been successfully completed by Monika Kshirsagar, Nidhi Bhalerao, Prachi Chaudhary, Ragini Meshram, Sumedh Lambe, Swapnil Kharat under the guidance of Prof. B.P. Nandurkar in recognition to the partial fulfillment for the award of the degree of bachelor of engineering in Civil Engineering, Yeshwantrao Chavan Collage of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Prof. B.P. Nandurkar
(Guide)


Dr. S.R. Khandeshwar
(Head of C.E. Dept.)


Signature of external examiner

Name: sandeep R. Gaikwad
Date of examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "AN INVESTIGATION OF MUNICIPAL SOLID WASTE MANAGEMENT IN THE NAGPUR CITY" has been successfully completed by Arti Bageshwar, Hema J. Shahare, Jais Jacob, Rupali Bhanarkar, Shailesh Ramteke, Taraksha Dharmik, Trupti Wankhede under the guidance of **Dr. S. R. Khandeshwar** in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



Signature

Dr. S.R. Khandeshwar

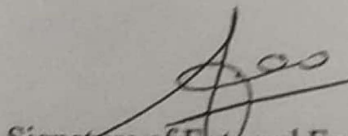
(Guide)



Signature

Dr. S.R. Khandeshwar

(H.O.D, C.E. Dept.)



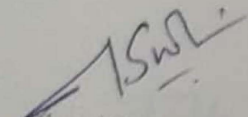
Signature of External Examiner:

Name: T.K. Das

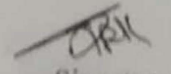
Date of Examination: 03/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "COMPARATIVE STUDY OF CHARACTERISTICS OF DAIRY WASTE WATER AND ITS TREATMENT IN DIFFERENT UNITS" has been successfully completed by Taresh Parkhi, Riya Tiwari, Toshik Dhanurkar, Mayuri Gawai, Swapnil Pagrut, Apurva Sukhdeve under the guidance of **Dr. S.V AMBEKAR** in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

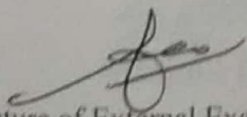

Signature

Dr. S.V Ambekar
(project Guide)


Signature

Dr. S.R. Khandeshwar
(HOD)

Department of Civil Engineering


Signature of External Examiner:

Name: T.K Rao

Date of Examination: 03/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "FEASIBILITY STUDY ON SMALL SCALE HYDROPOWER GENERATION THROUGH WEIR AND CANAL" has been successfully completed by Apeksha Badwaik, Jaya Sonde, Neha Rathod, Rucha Bhagat, Sharayu Gedam, Swati Vaidya under the guidance of **Dr. R.R. Dighade** in recognition to the partial fulfilment for the award of the degree of Master of Technology in Civil Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Dr. R.R. Dighade
(Guide)



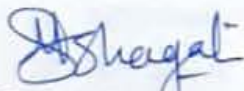
Dr. Sarla Adhau
(Co-Guide)



Dr. S. R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)



Signature of External Examiner

Name **Dr. M.S. Bhargat**

Date of Examination:

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
NAGPUR

Department of Civil Engineering



2018-2019

Certificate

This is to certify that the Project titled "**Bamboo as Reinforcement in Reinforced Concrete**" is submitted towards the partial fulfilment of requirement for the award of Degree of Bachelor of Engineering in Civil Engineering awarded by Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.

Submitted by:

1. Deepansh Ade
2. Komal Burele
3. Mrunali Suryawanshi
4. Shantanu Selokar
5. Usharani Tijare
6. Vaibhavi Donadkar

is approved.

Dr. U.P. Waghe

Principal

Prof. S.V. Ambekar

Project Guide

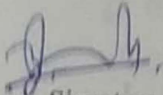
Prof. S.R. Khandeshwar

Head of Department

Signature of External Examiner
Prof. T.K. Rao

CERTIFICATE OF APPROVAL

This is Certified that the project report entitled "COMPARISON BETWEEN DESTRUCTIVE AND NON DESTRUCTIVE TEST ON CONCRETE INCORPORATED WITH FLY ASH" has been successfully completed by Kunal Kharbade, Yash Jadhao, Ankush Ghormode, Pritam Mohinkar, Prashil Bankar, Shrikant Chaure under the guidance of **Dr. V. G. Meshram** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



Signature

Dr. V.G. Meshram
(Project Guide)

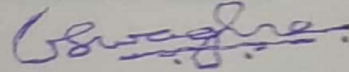


Signature

Dr. S.R. Khandeshwar
(HOD, C.E. Dept.)

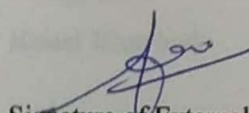
Signature

R.S. Mahabudhdhe



Signature

Dr. U.P. Waghe
(Principal, YCCE)



Signature of External Examiner:

Name: **T. K. Rao**

Date of Examination: **03/05/2019**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "BIO WALL ONE STEP FORWARD TO NATURE" has been successfully completed by Sayali Koche, Rupal Dhabarde, Meenakshi Sidam, Kajal Borkar, Pranab Aksapure, Harshal Kalambe under the guidance of **Prof.S.M.Waghmare** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



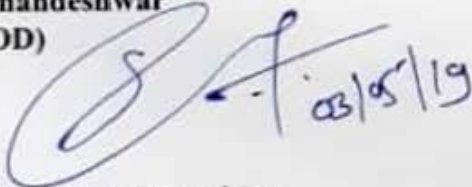
Signature

Prof.S.M.Waghmare
(Project Guide)



Signature

Dr S.R. Khandeshwar
(HOD)



03/05/19

Signature of External Examiner:

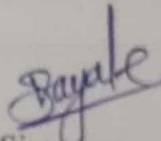
Name: **Sandeep. Gaiskward**
Date of Examination

Signature
Dr.U.P Waghe
(Principal)

PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441 110

CERTIFICATE OF APPROVAL

Certified that the project report entitled "BEHAVIOUR OF SELF COMPACTING CONCRETE USING RECYCLED AGGREGATE" has been successfully completed by Shrinath M. Sarpate, Aishwary M. Deshmukh, Apurva R. Chimalwar, Komal R. Dudhe, Sakshi R. Itankar, Shubham P. Kawale, Sumedh R. Shende under the guidance of Prof. V.D. Jayale in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

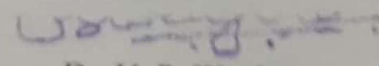

Signature

Prof. Vivek D. Jayale
(Guide)

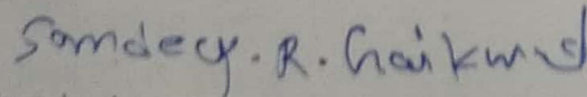

Signature

Dr. S. R. Khandeshwar
(HOD, CE)

Signature


Dr. U. P. Waghe
(Principal, YCCE)

Signature of External Examiner:

Name: 

Date of Examination:

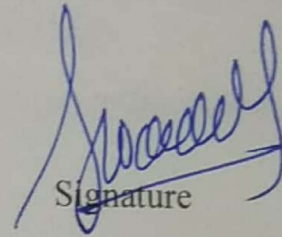
CERTIFICATE OF APPROVAL

Certified that the project report entitled "TREATMENT OF DAIRY WASTEWATER BY ROTATING BIOLOGICAL CONTACTOR" has been successfully completed by Yashshree Dhale, Himanshu Aglawe, Mrunal Somkuwar, Huzefa Khan, Juned Sheikh, Mrunal Tarpe under the guidance of Harshal .M.Warade in recognition to the partial fulfillment for the award of the degree of Bachelor Of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



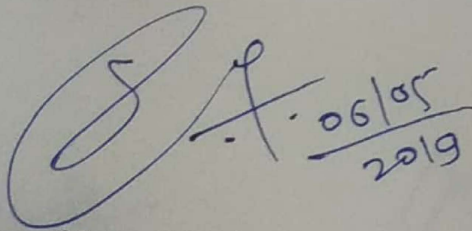
Signature

Dr. S. R. Khandeshwar
(HOD)



Signature

Prof. H. M. Warade
(Project Guide)



Signature of External Examiner:

Signature of External Examiner:

Name: Somdeep R. Naikwad
Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled or "A LABORATORY SCALE TREATMENT OF DOMESTIC GREYWATER USING NATURAL FILTER MEDIA" has been successfully completed by ADESH GAIKWAD, KARAN DAHIKAR, SANKET PARDHI, SAUMITRA, TANMAY WALKE under the guidance of PROF. **MS.C.S.WAGHMARE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



Prof Ms.C.S. Waghmare
(Project Guide)



Dr. S.R. Khandeshwar
(HoD, CE Department)

Signature of External:



Name of External:

P B Kulkarni

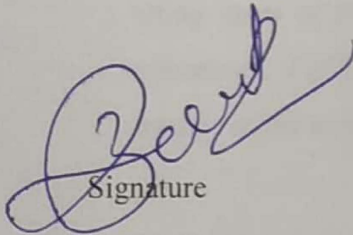
Date of Examination:

4/5/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DEVELOPMENT OF INSTRUMENT FOR BEARING CAPACITY OF SOIL UNDER DYNAMIC LOAD IN FIELD" has been successfully completed by Nayankumar R. Bopate, Harshal V. Avhale, Shubham S. Jadhav, Pallav Bhagat, Keshav Kuhikar, Kisan Agrawal under the guidance of **Prof. J.M. Raut** and **prof.A.P.Edlabadkar** in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

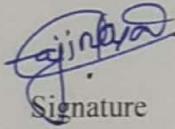
Date: / / 2019



Signature

Prof. J. M. Raut


(Guide)



Signature

Prof. A.P. Edlabadkar

(Co-Guide)



Signature

Dr. S.R. Khandeshwar

(H.O.D) (C.E. Dept)

Signature of External

Examiner: Name: P. B. Kulkarni

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "THERMAL PERFORMANCE OF MODEL HOUSE BUILT WITH SUSTAINABLE DEVELOPED BRICK" has been successfully completed by KRUTIKA BHISE, MRINALINI SURPAITHANKAR, ANURAG DESHMUKH, SAJAL BHARBAT, ASHWAJEET ADHAU, PRATIK URADE under the guidance of Prof. D. G. AGRAWAL in recognition to the partial fulfillment for the award of the degree of Master of Technology in Civil Engineering, Yeshwantrao Chavan College of Engineering(*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*)

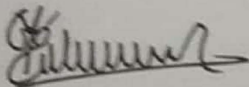


Prof. D. G. Agrawal



Dr. S. R. Khandeshwar

(HOD, Civil Dept.)



External Examiner

Name: M-D Pichurkar


Date of Examination: 06/05/19

CERTIFICATE OF APPROVAL

This is Certified that the project report entitled "REUSE AND RECYCLE OF GREYWATER BY ECO-WRINGER" has been successfully completed by Aditya Thombre, Mohak Deshpande, Parimal Borkar, Sahil Rangari, Sanket Mahajan under the guidance of Prof. K. S. Ansari in recognition to the partial fulfillment for the award of the degree of Bachelor Of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).




Signature
Prof. K.S. Ansari
(Project Guide)



Signature

Dr S.R. Khandeshwar
(HOD, C.E. DEPT.)



Signature

Dr. U.P Waghe
(Principal)

Signature of External Examiner

Name:

Date of Examination:

CERTIFICATE OF APPROVAL

This is Certified that the project report entitled "ANALYSIS AND DESIGN OF FOUNDATION USED IN HIGH RISE RESIDENTIAL BUILDING" has been successfully completed by Ashay Jambhulkar, Sachin Bidwe, Sanket Lampuse, Sanyukta Saraykar, Parul Patankar, Atharva Deshpande under the guidance of Prof. **H. R. NIKHADE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



Signature

Prof. H. R. Nikhade
(Project Guide)



Signature

Dr. S.R. Khandeshwar
(HOD, C.E. Dept.)

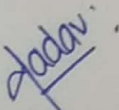
Signature of External Examiner

Name: **P B Kulkarni**

Date of Examination: **6/5/19**

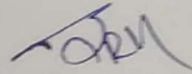
CERTIFICATE OF APPROVAL

Certified that the project report entitled "PARTIAL REPLACEMENT OF COARSE AGGREGATE BY CROWN CAPS" has been successfully completed by Neha Rathod, Isha Tekade, Anirudha Deshmukh, Hemant Chandangir, Nikhil Upare ,under the guidance of Prof.A.A.YADAV in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



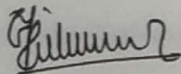
Signature

Prof. A.A.Yadav
(Project Guide)



Signature

Dr. S.R. Khandeshwar
(H.O.D)
(Civil Engineering Department)



Signature of External Examiner:

Name: M.D.Pijurkar

Date of Examination 06/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Suitability of CUPOLA SLAG as Partial Substitution of Fine Aggregate in Cement Mortar" has been successfully completed by Rishikesh Jaiswal, Siddhesh Bapat, Taher shakir, Kunal Peshne, Ashwin Pethewar under the guidance of Prof S.S. Meshram in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)


Signature

Prof S.S. Meshram
Project Guide


Signature

Dr. S.R. Khandeshwar
HoD, CE Department

Signature of External:



Name of External:

M.D. Pijuskur

Date of Examination:

06/09/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "EFFECT OF CURING CYCLE ON VARIOUS MECHANICAL PROPERTIES OF MORTAR CUBES FOR DIFFERENT GRADE OF PROPORTION 1:5 & 1:6" has been successfully completed by ADITYA NAWKHARE, AJINKYA KANKALE, ANIKET NIMKAR, PRANAY WASNIK, SANKET DHOTE, SARANG GADEKAR under the guidance of Prof. P.K. HINGE in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



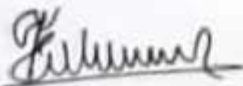
Prof. P.K. Hinge
(Guide)



Signature
Dr. S.R. Khandeshwar
(H.O.D. C.E. Dept.)



Signature
Dr. U. P. Waghe
(Principal)



Signature of External Examiner:

Name: M.D. Pudurkar

Date of Examination: 06/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "MEASUREMENT OF MATRIC SUCTION IN UNSATURATED CLAYEY SOIL", has been successfully completed by the students of final year under the guidance of Prof. P. B. Pande in recognition to the partial fulfillment for the award of the degree of Bachelor of Civil Engineering, Yeshwantrao Chavan College of Engineering, Nagpur.



Prof. P. B. Pande

(Guide)



Prof. Dr. S.R. Khandeshwar

(Head, Department of Civil Engineering)



Signature of External Examiner

Name: M. D. Ardukar

Date of Examination: 06/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "REVIEWS OF VARIOUS TRIAXIAL TEST" has been successfully completed by Shrushty Kolhe, Nayan Chaudhari, Parag Ambule, Bhaskar Patle, Abhishek Katre and Shashwati Chawre under the guidance of Prof. P.B.Pande in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



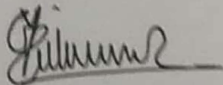
Prof. P.B. Pande

(Guide)



Dr. S.R. Khandeshwar

(HOD, CE Dept.)



Signature of External

Examiner: Name: M.D. Pichurkar

Date of Examination: 06/05/13

CERTIFICATE OF APPROVAL

Certified that the project report entitled "SEISMIC ANALYSIS OF MULTISTORIED BUILDING WITH BRICK MASONRY INFILL" has been successfully completed by Vaibhav Daulat Estam, Rahul Chaudhary, Nikhil Dudhe under the guidance of Prof. S. G. Hirekhan in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institute Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

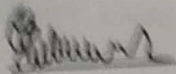


Prof. S. G. Hirekhan



Dr. Shantanu R. Khandeshwar

Head of Department



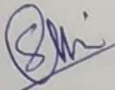
Signature of External Examiner

Name: M. D. P. J. J. J.

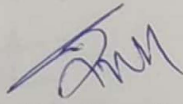
Date of examination: 08/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "ANALYSIS OF EFFECTIVENESS OF OIL SPILL RECOVERY USING DISC TYPE OIL SKIMMER" has been successfully completed by Davidas Satpute, Aniket Bodele, Aakash Chakravorty, Chetan Panchabhai, Kumar Harsh under the guidance of **PROF. S G HIREKHAN** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



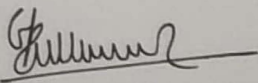
Prof S.G.Hirekhan.
Guide, CE Dept.



Dr S.R. Khandeshwar
HOD, CE Dept.



Dr. U.P Waghe
Principal, YCCE



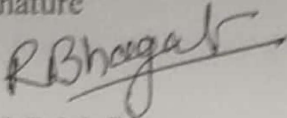
Signature of External Examiner:

Name: M.D Pichurkar
Date of examination: 08/05/19

CERTIFICATE OF APPROVAL

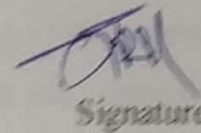
Certified that the project report entitled "REMOVAL OF HEAVY METALS FROM INDUSTRIAL WASTE WATER BY ADSORPTION" has been successfully completed by Aniruddha Ghodmare, Nishant Ughade, Saurabh Joshi, Topendra Sahu, Saurabh Lanjewar, Laxmi Jamulkar under the guidance of Prof. R.M. Bhagat in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Signature



Prof. R.M. Bhagat

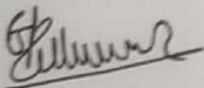
(Guide)



Signature

Dr. S.R. Khandeshwar

(H.O.D. Civil Engineering)



Signature of External Examiner:

Name: M.D. Pidikar

Date of Examination: 08/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "STUDIES IN RETROFITTING ANALYSIS OF TYPICAL RC FRAMED BUILDING WITH THE HELP OF BRACING USING E-TABS SOFTWARE" has been successfully completed by Jaya Pande, Komal Indore, Sushama Shelare, Harish Gawhane, Nitesh Ambadkar, Dhanashree Marge under the guidance of **Prof. Monali Wagh** in recognition to the partial fulfillment for the award of the degree of Bachelor of engineering in Civil Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**.



Prof. Monali Wagh
(Guide)



Dr. S.R. Khandeshwar
(H.O.D)
(Civil Department)



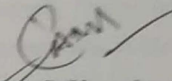
Signature of External Examiner:


Name: *M. R. S. Bute*

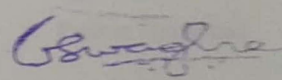
Date of Examination *08/05/19*

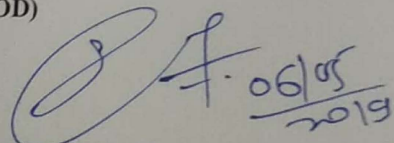
CERTIFICATE OF APPROVAL

Certified that the project report entitled "AN INVESTIGATION ON BACTERIAL CONCRETE", has been successfully completed by Abhay fulariya, Rishabh Bambhore, Shreya Gadhave, Pritam Dandekar, Harshal Pawankar, Amruta Raut, under the guidance of **Prof. A.S. Kurzekar** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukdoji Maharaj, Nagpur University).


Prof. A.S. Kurzekar
(Project Guide)


Dr. S.R. Khandeshwar
(HOD)


Dr. U.P. Waghe
(Principal)


Signature of External Examiner
Name: Sandeep R. Gaiwad

CERTIFICATE OF APPROVAL

Certified that the project entitled LABORATORY METHOD FOR DETERMINE BEARING CAPACITY OF SOIL has been successfully completed by Amul Daharwal, Rohit Wagh, Kaustabh Dhurve, Kausal Mullewar, Mangesh Madavi, Amit Gajbhiye. Under The Guidance Of **Pro. J. M. Raut** in recognition to partial fulfilment for the award of the degree of Bachelor of Technology in Civil Engineering, Yeshwantrao chavan college of Engineering (An Autonomous Institution Affiliated To Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur)

DATE: / /2019

Signature

(R. S. Mahabudhdhe)

Signature

(Pro. J. M. Raut)

Signature

(Dr. Dilip Mase)

Signature

(HOD Dr. S. R. Khandeshwar)

Signature

(Principal Dr. U. P. Wagite)

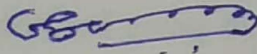
Signature of External Examiner:-

Name:- P. B. Kulkarni

Date of Examination:- 06/05/2019

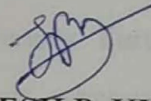
CERTIFICATE OF APPROVAL

Certified that the project report titled "ANALYSIS, DESIGN AND DEVELOPMENT OF PRECAST PANEL FOR SERVICEABILITY IMPROVEMENT & IT'S APPLICATION TO FLEXIBLE PAVEMENT " has been successfully completed by **KOMAL D. DAGWAL** under the guidance of **Dr. U. P. WAGHE** and co-guided by **Prof. YOGESH P. KHERDE**, Assistant Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.



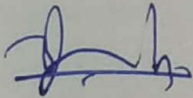
DR. U. P. WAGHE

(Guide)



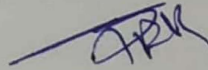
YOGESH P. KHERDE

(Co-Guide)



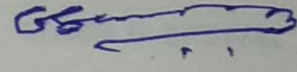
Dr. V. G. Meshram

(Co-ordinator)



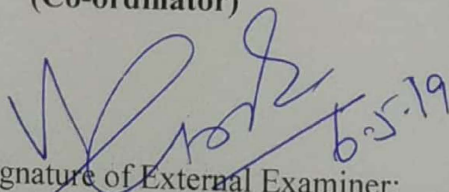
Dr. S. R. Khandeshwar

(HOD, CE Dept.)



Dr. U. P. Waghe

(Principal)

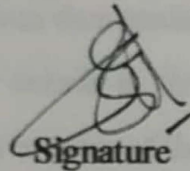

Signature of External Examiner:

Name:

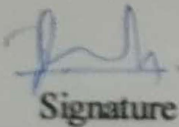
Date of Examination:

Certificate

Certified that the project report entitled "Seismic Analysis of Reinforced Concrete Building with Friction Dampers" has been successfully completed by Ms. Aparna N. Bhojar under the guidance of **Prof. B.P. Nandurkar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature
Prof. B.P. Nandurkar
(Guide)

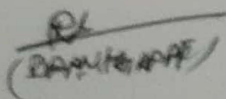


Signature
Prof. V. G. Meshram
(Co-ordinator)



Signature
Dr. S.R. Khandeshwar
(HOD, CE Dept.)

Signature
Dr. U. P. Waghe
(Principal)



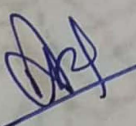
Signature of External Examiner

Name

Date of Examination:

CERTIFICATE OF APPROVAL


Certified that the project report entitled "COMPARATIVE STUDY OF REINFORCED CONCRETE SLAB SYSTEM V/S POST-TENSIONED SLAB SYSTEM WITH REFERENCE TO IS AND ACI STANDARDS" has been successfully completed by SHRAWANI A. SHENDE under the guidance of Dr. A.V. PATIL Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



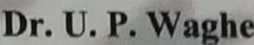
Dr. A.V. PATIL
(Guide)



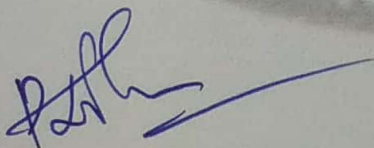
Dr. V. G. Meshram
(Co-ordinator)



Dr. S. R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)



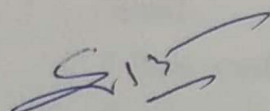
Signature of External Examiner

Name: Dr. P. P. Pachyore

Date of Examination: 1/1/18

CERTIFICATE OF APPROVAL

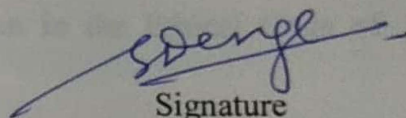
Certified that the project report entitled "Comparative Analysis and Design of Tall Building Using IS 16700 – 2017 and ACI 318 – 14" has been successfully completed by Ms. DEEPIKA NAIR under the guidance of **Dr. S. P. RAUT** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, YeshwantraoChavan College of Engineering(*An Autonomous Institution Affiliated to RashtrasantukdojiMaharaj Nagpur University*)



Signature

Dr. S. P. Raut

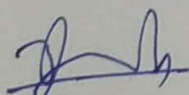
(Guide)



Signature

Er. S. V. Denge

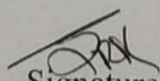
(Co Guide)



Signature

Dr. V.G. Meshram

(Coordinator)



Signature

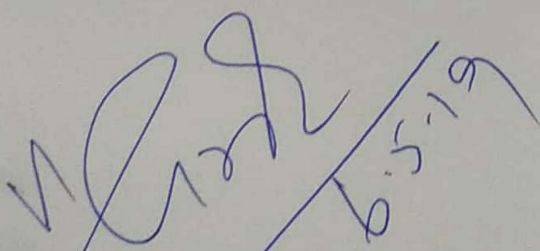
Dr. S. R. Khandeshwar

(HOD, CE Dept.)

Signature

Dr. U. P. Waghe

(Principal)




Signature of External Examiner

Name

Date of Examination:


CERTIFICATE OF APPROVAL

Certified that the project report titled "CAPACITY ESTIMATION OF RCC FRAME STRUCTURED BUILDINGS WITH REFERENCE TO STRUCTURAL ASSESSMENT USING NON DESTRUCTIVE TESTING" has been successfully completed by SANKET G. PADISHALWAR under the guidance of **Dr. A.V. PATIL**, Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



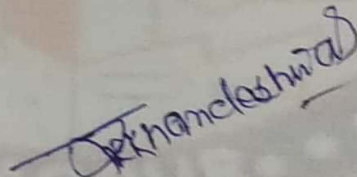
Dr. A.V. PATIL

(Guide)



Dr. V. G. Meshram

(Co-ordinator)



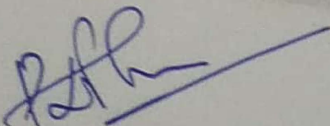
Dr. S. R. Khandeshwar

(HOD, CE Dept.)



Dr. U. P. Waghe

(Principal)




Signature of External Examiner

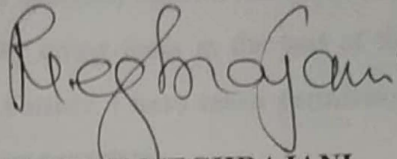
Name: Dr. P. D. Kumbhar

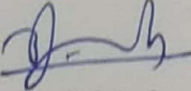
Date of Examination: 6.5.19


CERTIFICATE OF APPROVAL

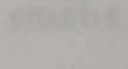
Certified that the project report titled "BEHAVIOUR OF COLD-FORMED Z PURLINS WITH SAG RODS AND SHEETING IN PRE-ENGINEERED BUILDING" has been successfully completed by STIMITI S. WAGHMARE under the guidance of **BHUPESH P. NANDURKAR** and Co-guided by **Dr. RAMESH MEGHRAJANI**, NEO Infrastructure Consultants, Nagpur in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*).

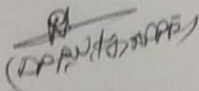

BHUPESH P. NANDURKAR
(Guide)


Dr. RAMESH MEGHRAJANI
(Co-guide)


Dr. V. G. Meshram
(Co-ordinator)


Dr. S. R. Khandeshwar
(HOD, CE Dept.)


Dr. U. P. Waghe
(Principal)

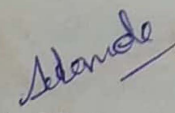

Signature of External Examiner

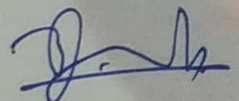
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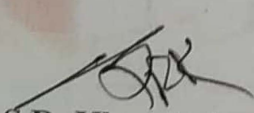
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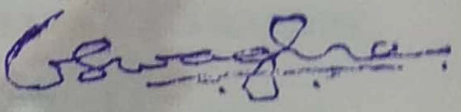
CERTIFICATE OF APPROVAL

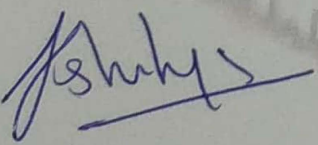
Certified that the project report entitled "**CRITICAL STUDY OF DYNAMIC EFFECTS DUE TO WIND ON HIGH RISE BUILDING STRUCTURES WITH VARIOUS CONFIGURATIONS**" has been successfully completed by **SUCHANA S. TELRANDHE** under the guidance of **Dr. A. M. PANDE**, Professor, Civil Engineering Department and Director (R&D) in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.


Dr. A. M. Pande
(Guide)


Dr. V. G. Meshram
(Co-ordinator)

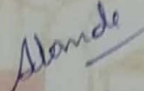

Dr. S.R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)

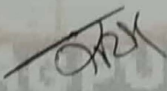

Signature of External Examiner
Name: **Dr. Kshitiya Kadam**
Date of Examination: **06/5/19**

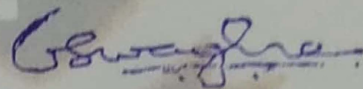
CERTIFICATE OF APPROVAL

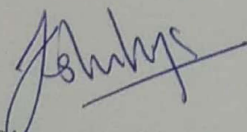
Certified that the project report entitled "Critical Study On The Development Of Forces At Typical Locations Under Seismic Loading On Structures With Some Uncommon Irregularities" has been successfully completed by Anuja A. Pawar under the guidance of **Dr. Anant M. Pande**, Associate Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).


Dr. A. M. PANDE
(Guide)


Dr. V. G. Meshram
(Co-ordinator)


Dr. S. R. Khandeshwar
(HOD, CE Dept.)


Dr. U. P. Waghe
(Principal)


Signature of External Examiner
Name: Dr. Kshibhja Kadam
Date of Examination: 06/5/19

CERTIFICATE OF APPROVAL

Certified that the project report titled "SEISMIC ANALYSIS OF STRUCTURE CONSIDERING SOIL STRUCTURE INTERACTION" has been successfully completed by ALAUKIK K. ALKARI under the guidance of Prof. S. S. MESHRAM, Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).

S.S. Meshram
Prof. S. S. MESHRAM

(Guide)

V.G. Meshram
Dr. V. G. Meshram
(Co-ordinator)

S.R. Khandeshwar
Dr. S. R. Khandeshwar
(HOD, CE Dept.)

U.P. Waghe
Dr. U. P. Waghe
(Principal)


Signature of External Examiner

Name: *Anshul R. Nikhade*

Date of Examination: *08/05/19*

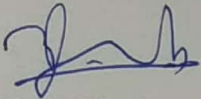
CERTIFICATE OF APPROVAL

Certified that the project report titled "SEISMIC ANALYSIS OF IRREGULAR RC STRUCTURE WITH DIFFERENT BRACING SYSTEM" has been successfully completed by ARCHIT S. TERHA under the guidance of **Dr. V.G. MESHRAM**, Associate Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*).



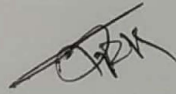
Dr. V.G. MESHRAM

(Guide)



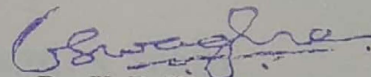
Dr. V. G. Meshram

(Co-ordinator)



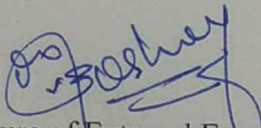
Dr. S. R. Khandeshwar

(HOD, CE Dept.)



Dr. U. P. Waghe

(Principal)



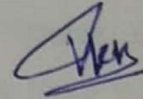
Signature of External Examiner

Name: Dr. B. V. Bahere

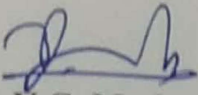
Date of Examination: 8/05/19

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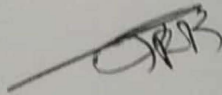
Certified that the project report entitled "ANALYSIS OF HIGH RISE BUILDING WITH THE EFFECT OF OUTRIGGER" has been successfully completed by NAVNITA C. RAGITE under the guidance of Prof.V.N.Mendhe in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



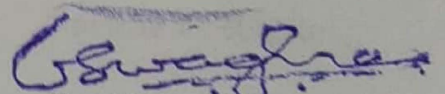
Prof.V.N.Mendhe
(Guide)



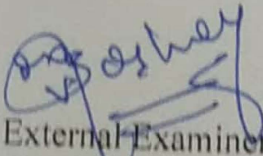
Dr. V.G. Meshram
(Coordinator)



Dr. S.R.Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)



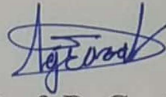
Signature of External Examiner

Name: Dr. B. V. Bahari

Date of Examination: 8/05/19

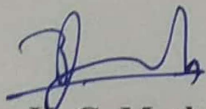
CERTIFICATE OF APPROVAL

Certified that the project report entitled "Investigation Of Fiber Reinforced Rubberized Concrete " has been successfully completed by Mr SHUBHAM VITTHALRAO LINGARWAR under the guidance of Prof. D.G AGRAWAL. in recognition to the partial fulfilment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering. (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

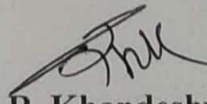


Prof. D. G. Agrawal

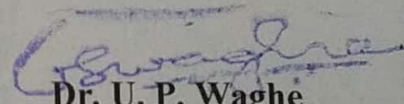
(Guide)



Dr. V. G. Meshram
(Coordinator)

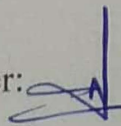


Dr. S. R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)

Signature of External Examiner:

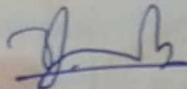


Name Anshul R. Mikhade

Date of Examination 08/05/19

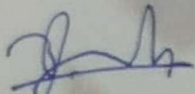
CERTIFICATE OF APPROVAL

Certified that the project report entitled "DEVELOPMENT OF NEW EMPIRICAL FORMULAE FOR ESTIMATION OF FUNDAMENTAL TIME PERIOD OF STRUCTURES" has been successfully completed by HARESH REMESHRAO BELKHADE under the guidance of **Dr. V. G. MESHRAM**, Associate Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



Dr. V. G. MESHRAM

(Guide)



Dr. V. G. Meshram

(Co-ordinator)



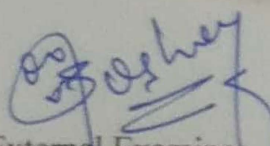
Dr. S. R. Khandeshwar

(HOD, CE Dept.)



Dr. U. P. Waghe

(Principal)



Signature of External Examiner

Name:

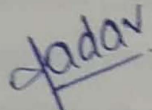
Dr. B. V. Bahadur

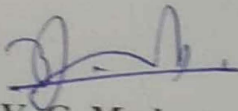
Date of Examination:


8/05/19

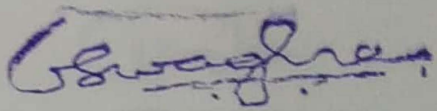
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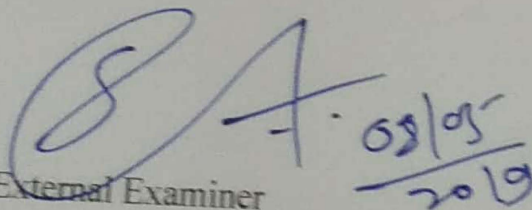
Certified that the project report titled "RESPONSE OF OPEN GROUND STOREY DUE TO SEISMIC LOADING" has been successfully completed by NEHAL K. RAMTEKE under the guidance of **AMRUTA A. YADAV**, Assistant Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).


AMRUTA A. YADAV
(Guide)


Dr. V. G. Meshram
(Co-ordinator)


Dr. S. R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)



Signature of External Examiner
Name: Sandeep R. Goyal
Date of Examination: 05/05/2019


CERTIFICATE OF APPROVAL

Certified that the project report entitled "EFFECT OF CURING CYCLE ON MECHANICAL PROPERTIES OF CEMENT MORTAR WITH DIFFERENT PROPORTIONS" has been successfully completed by Mr. NAOMAAN AHMED KHAN under the guidance of Prof. P. K. HINGE, Associate Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).


Prof. P. K. HINGE
(Guide)


Dr. V. G. Mesram
(Co-ordinator)


Dr. S. R. Khandeshwar
(HOD, CE Dept.)

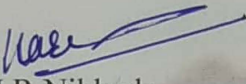

Dr. U. P. Waghe
(Principal)

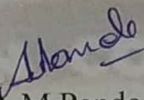

Signature of External Examiner

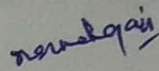
Name: Sandeep. R. Chaitand
Date of Examination:

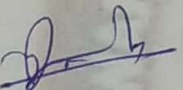
CERTIFICATE OF APPROVAL


Certified that the project report titled "ANALYSIS AND DESIGN OF DIFFERENT GIRDER SHAPES AND PIER SHAPES" has been successfully completed by **MAYUR T. GHAIWAT** under the guidance of **Prof. H.R.Nikhade** Professor, Civil Engineering Department in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.

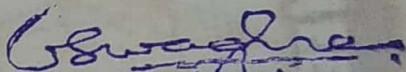

Prof. H.R.Nikhade
(Guide)

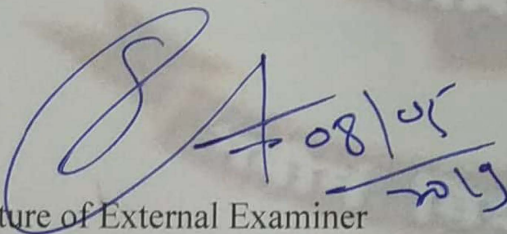

Dr. A.M.Pande
(Project Mentor
(Director, R&D)


N.Mahajan
(Director IAG Institute)


Dr. V. G. Meshram
(Co-ordinator)


Dr. S. R. Khandeshwar
(HOD, CE Dept.)

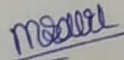

Dr. U. P. Waghe
(Principal)


Signature of External Examiner

Name: **Samdeep R. Ganjwal**
Date of Examination:

CERTIFICATE OF APPROVAL

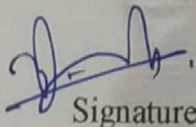
Certified that the project report entitled "COMPARATIVE ANALYSIS OF MULTISTORIED BUILDING RESTING ON SLOPING GROUND BY RESPONSE SPECTRUM METHOD AND SEISMIC COEFFICIENT METHOD" has been successfully completed by SUFYAN ANSARI under the guidance of **Prof. M. R. WAGH** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Structural Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Prof. Monali R. Wagh

(Guide)



Signature

Dr. V. G. Meshram

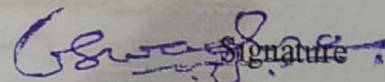
(Coordinator)



Signature

Dr. S.R. Khandeshwar

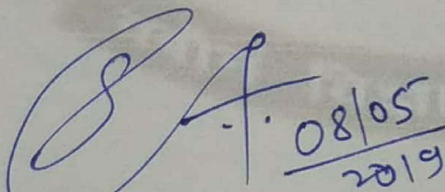
(HOD, CE Dept.)



Signature

Dr. U. P. Waghe

(Principal)



08/05
2019

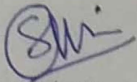
Signature of External Examiner

Name: **Sandeep R. Chaikund**

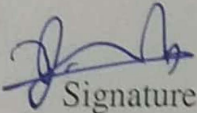
Date of Examination:

CERTIFICATE OF APPROVAL

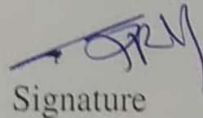
Certified that the project report entitled "Seismic Response Of Regular Multi storey Building Under Different Soil Condition" has been successfully completed by MEGHA S. MANGLE under the guidance of Prof. S. G. HIREKHAN in recognition to the partial fulfillment for the award of the degree of Master of Technology in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



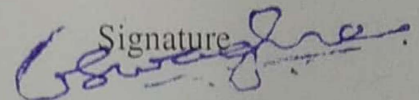
Signature
Prof. S. G. Hirekhan
(Guide)



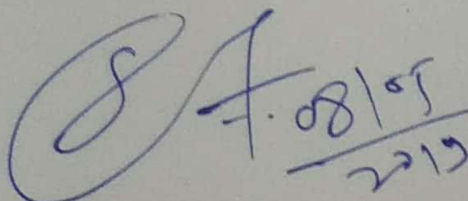
Signature
Dr. V. G. Meshram
(Coordinator)



Signature
Dr. S.R. Khandeshwar
(HOD, CE Dept)



Signature
Dr. U.P. Waghe
(Principal)





08/05
2019


Signature of External Examiner
Name Sandeep R. Guind
Date of Examination:

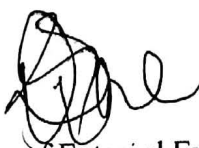
CERTIFICATE OF APPROVAL

Certified that the project report entitled "Conversion of organic matter to Bioethanol" has been successfully completed by Aarti J. Sarda under the guidance of Dr. S. V. Ambekar in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).


Dr. S. V. Ambekar
(Guide)



Dr. S.R. Khandeshwar
(HOD, CE Dept.)

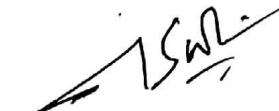

Dr. U. P. Waghe
(Principal)



Signature of External Examiner
Name: P. B. Kulkarni
Date of Examination: 6/5/19


CERTIFICATE OF APPROVAL


Certified that the project report entitled "Use of microalgae in wastewater treatment" has been successfully completed by **Harshali M. Fating** under the guidance of **Dr. S.V.Ambekar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**


Dr. S.V.Ambekar
(Guide)


Dr. S.V.Ambekar
(Coordinator)


Dr. S.R. Khandeshwar
(HOD, CE Dept.)


Dr. U. P. Waghe
(Principal)


Signature of External Examiner
Name: **P. B. Kulkarni.**
Date of Examination: **6/5/19**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Electrocoagulation and Electrofloatation process of removing pollutants from grey water" has been successfully completed by Shital H. Hanumante under the guidance of Prof. Khalid S. Ansari in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashttrasant Tukadoji Maharaj Nagpur University).



Prof. Khalid S. Ansari

(Guide)

Dr.A.N.Shrikhande

prof. KITS Ramtek (coguide)



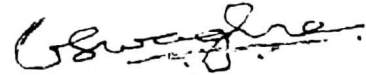
Dr. S. V. Ambekar

(Coordinator)



Dr. S.R. Khandeshwar

(HOD, CE Dept.)



Dr. U. P. Waghe

(Principal)



Signature of External Examiner

Name: 06/05/19

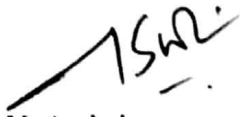
Date of Examination

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Performance Evaluation Of Drawer Compacted Filter For Grey Water" has been successfully completed by **Monika R. Kurekar** under the guidance of **Prof. Ms. Charuta S. Waghmare** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



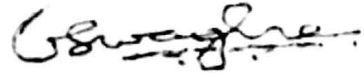
Prof. Ms. Charuta S. Waghmare
(Guide)



Dr. S. V. Ambekar
(Coordinator)



Dr. S.R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)



Signature of External Examiner

Name: Dr. T. B. Gupta

Date of Examination:

06/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "AN INVESTIGATION ON BLENDING OF UNDIGESTED SEWAGE WITH ORGANIC WASTE IN COMPOSTING " has been successfully completed by SAMRUDDHI SOLE under the guidance of **DR. S.R. KHANDESHWAR** and DR. N.S. RAMAN in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

Dr. S.R. Khandeshwar

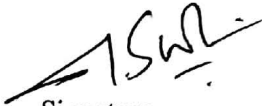
(Guide, HOD, CE Dept.)



Signature

Dr. N.S. Raman

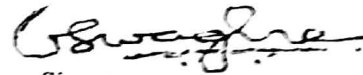
(Co Guide, Deputy Director CSIR NEERI)



Signature

Dr. S.V. Ambekar


(Coordinator)



Signature

Dr. U.P. Waghe

(Principal)

Signature of External Examiner 

Name **P.B. Kulkarni**

Date of Examination: **6/5/19**

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**Constrctured Wetland Filter for Salinity Removal**” has been successfully completed by **Swateja G. Telang** under the guidance of **Prof. H. M. Warade** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**



Prof. H. M. Warade
(Guide)



Dr. S. V. Ambekar
(Coordinator)



Dr. S.R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)



Signature of External Examiner

Name: Dr. T. B. Gupta

Date of Examination:

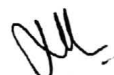
06/05/19

CERTIFICATE OF APPROVAL

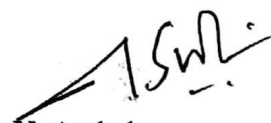
Certified that the project report entitled "Investigation Into The Issues Related To Treatment And Disposal Of MSW In Nagpur City" has been successfully completed by **Mayuri B Mogre** under the guidance of **Dr. S. R. Khandeshwar** and **Dr. N.S. Raman** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur.** (An Autonomous Institution Affiliated to **Rashtrasant Tukadoji Maharaj Nagpur University**).



Dr.S.R.Khandeshwar
(Guide & HOD CE Dept)



Dr.N.S.Raman
(Deputy Director CSIR NEERI ,Nagpur)
(Co - Guide)



Dr. S. V. Ambekar
(Co ordinator)



Dr. U. P. Waghe
(Principal)

Signature of External Examiner

Name: **P B Kulkarni**

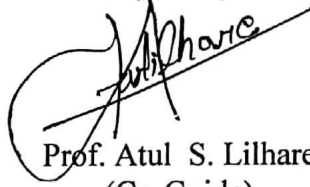
Date of Examination: **6/5/19**

CERTIFICATE OF APPROVAL

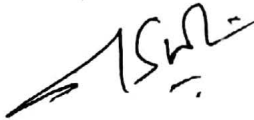
Certified that the project report entitled "Comparison of Ac and Dc current in treatment of domestic greywater by electrocoagulation" has been successfully completed by **Payal T. Bhusari** under the guidance of **Prof. Khalid S. Ansari** and **Prof. Atul S. Lilhare** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**



Prof. Khalid S. Ansari
(Guide)



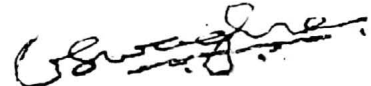
Prof. Atul S. Lilhare
(Co-Guide)



Dr. S. V. Ambekar
(Coordinator)



Dr. S.R. Khandeshwar
(HOD, CE Dept.)



Dr. U. P. Waghe
(Principal)



Signature of External Examiner

Name: **Dr. T. B. Gupta**

Date of Examination:

Yeshwantrao Chavan College of Engineering
Hingna Road Wanadongri,
NAGPUR - 441110

Jain Sachin
Ledger Account
9730870809

1-Apr-2018 to 2-Nov-2018

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
1-4-2018	By Opening Balance				16,557.00
9-4-2018	To Tirupati Urban Co-Operative Bank Ltd., 130	Bank Payment	YCCE/BP/ 60	16,557.00	
	Cheque 005990	9-4-2018		15,700.00 Cr	
	Cheque 005991	9-4-2018		857.00 Cr	
	<i>Cheque No.005990 Your Self issued to Dr Ravi B Mishra Rs. 15,700/- & Cheque No. 005991 Date-09.04.2018 issued for expenses incurred during Guest Lecture.</i>				
27-4-2018	By Provision for Student Project Expenses	JOURNAL_	YCCE/JV- 40		4,450.00
	<i>Towards expenses incurred for student project expenses for Information Technology Dept. [ROBO Studio] bill no.120 Date-12.03.2018 [Hitesh Shende & Shraddha Pimpikar]</i>				
	By (as per details)	JOURNAL_	YCCE/JV- 43		4,680.00
	FAREWELL EXPENSES			14,430.00 Dr	
	TDS - Contractor - 94 C			195.00 Cr	
	Shree Taj Sakhe Sai Caters & Foods			9,555.00 Cr	
	<i>being expenses incurred for Farewell Program for final year students of dept of IT on 03.04.2018. as per details attached.</i>				
23-6-2018	To Tirupati Urban Co-Operative Bank Ltd., 130	Bank Payment	YCCE/BP/ 612	4,680.00	
	Cheque 006765	23-6-2018		4,680.00 Cr	
	<i>Cheque No.006765 Date-23.06.2018 issued for expenses incurred during Farewell Program for Final year students.</i>				
21-9-2018	To Cash	Cash Payment	YCCE/CP/ 552	10,000.00	
	<i>Being advance cash paid to Mr.Sachin Jain against visiting professor scheme dt of settlement-05.10.2018</i>				
9-10-2018	By (as per details)	JOURNAL_	YCCE/JV-1009		38,412.00
	Visiting Professor			41,412.00 Dr	
	TDS - Professional - 94 J			3,000.00 Cr	
	<i>30000 x 10% [A R N P S 6899 R] DR. D. S. SRIVASTAVA</i>				

TIRUPATI URBAN CO-OPERATIVE BANK LTD.
Shradhanand Peth Branch, 172, Shradhanand Peth
South Ambazari, Nagpur 440010.
IFS CODE: HDFCULT0602

A/c Payee

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE
Date दिनांक 24/10/2018
D D M M Y Y Y Y

Sachin Jain TUCB-9013

or Bearer

Four Thousand Four Hundred Fifty Only

अदा करे। ₹ **4,450.00

Current A/c. No.: 002002100000130

(Signature)
YESHWANTRAO CHAVAN COLLEGE OF ENGG.



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

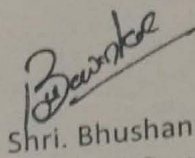
Department of Information Technology

DATE :- 2/4/18

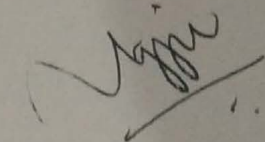
NOTE TO THE PRINCIPAL

Final Year students of Information Technology Department require the financial assistance to purchase some hardware equipment for completion of their projects. As these equipments are not available in the YCCE store, the projectees need your permission & approval to purchase it. The respective guides of the projects also have recommended the same for approval.

Total amount required is Rs. 2212/-. Details about the Project & equipment are attached with this notesheet.



Shri. Bhushan U. Bawankar
Project Co-ordinator


Dr. U.H. Gawande
HOD, IT

Yeshwantrao Chavan College of Engineering

Hingna Road Wanadongri,
NAGPUR - 441110

Gawande Ujwala
CT Deptt
Ycce

1-Apr-2018 to 2-Nov-2018

Page 1
Credit

Date	Particulars	Vch Type	Vch No.	Debit	Credit
8-5-2018	By Student Project Expenses Primary Cost Category Information Technology 2,212.00 Dr Primary Cost Category Information Technology 2,212.00 Cr Towards expenses incurred for student project. "Mood Sensing Music Player" student of IT Dept [Prachi Randive, Vignesh Kurup, Dipti Bhoge & Anika Sukhdeve]	JOURNAL	YCCE/ JV- 110		2,212.00
23-10-2018	To Tirupati Urban Co-Operative Bank Ltd., 130 Bank Payment Cheque 006923 23-10-2018 Ujwala Gawande TUCB- 3056 Primary Cost Category Information Technology 2,212.00 Dr Ch. no. 006923 dt. 23 10 18 issued towards expenses of student project on Mood sensing music player		YCCE/BP/ 1597 2,212.00 Cr	2,212.00	
				2,212.00	2,212.00

Debit
00



TIRUPATI URBAN CO-OPERATIVE BANK LTD.

Shraddhanand Peth Branch, 172, Shraddhanand Peth
South Ambrazari, Nagpur 440010.
IFS CODE : HDFC0CTUB02

A/c Payee

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

Date
दिनांक 0 0 2 3 1 0 2 0 1 8

or Bearer

Ujwala Gawande TUCB- 3056

01/10/2018 15:49:14
Pay
Rupees रुपये

Two Thousand Two Hundred Twelve Only

अदा करें।

₹ **2,212.00

Current A/c. No.: 002002100000130

Handwritten signature

Handwritten signature

YESHWANTRAO CHAVAN COLLEGE OF ENGG

Please sign above

Yeshwantrao Chavan College of Engineering

Hingna Road Wanadongri,
NAGPUR - 441110

Shende S. W.

Ledger Account
9765326126

1-Apr-2018 to 2-Nov-2018

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
8-5-2018	By Student Project Expenses	JOURNAL_	YCCE/ JV- 111		2,560 00
	Primary Cost Category				
	Information Technology	2,560.00 Dr			
	Primary Cost Category				
	Information Technology	2,560.00 Cr			
	<i>Towards expenses incurred for student project, "Smart Fan with Temperatur control & Direction Sensor "student of IT Dept [Chaitali Kaurase, Snehal Dhokane, Vaibhavi Ande & Darshan dengale]</i>				
26-7-2018	To Cash	Cash Payment	YCCE/CP/ 339	2,000.00	
	Primary Cost Category				
	Information Technology	2,000.00 Dr			
	<i>Being Advance cash paid to Mr Shailendra W Shende for BOS meeting on 28.07.2018 settlement date-04.08.2018</i>				
31-7-2018	By (as per details)	JOURNAL_	YCCE/ JV- 585		8,166.00
	BOS (Autonomy)	1,866.00 Dr			
	Primary Cost Category				
	Information Technology	1,866.00 Dr			
	BOS (Autonomy)	7,000.00 Dr			
	Primary Cost Category				
	Information Technology	7,000.00 Dr			
	TDS - Professional - 94 J	200.00 Cr			
	Primary Cost Category				
	SACHIN SATHE	200.00 Cr			
	<i>2000 10% [PAN-A E H P S 8540 Q</i>				
	TDS - Professional - 94 J	200.00 Cr			
	Primary Cost Category				
	DESHPANDE U A	200.00 Cr			
	<i>2000 X 10% [PAN- A B I P D 6199 Q]</i>				
	TDS - Professional - 94 J	200.00 Cr			
	Primary Cost Category				
	UMRE PARIKSHIT	200.00 Cr			
	<i>2000 X 10% [PAN-A A I P I Y 7920 R]</i>				
	TDS - Professional - 94 J	100.00 Cr			
	Primary Cost Category				



TIRUPATI URBAN CO-OPERATIVE BANK LTD.

Shraddhanand Peth Branch, 172, Shraddhanand Peth
South Ambrazari, Nagpur 440010.
IFS CODE : HDFC0CTUB02

A/c Payee

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

Date
दिनांक

or Bearer

Pay **Shailendra Shende Tucb-6373**

Rupees रुपये **Two Thousand Five Hundred Sixty Only**

अदा करे।

₹ ****2,560.00**

Current A/c. No.: 002002100000130

Shailendra Shende

YESHWANTRAO CHAVAN COLLEGE OF ENGG.

Please sign above

⑈007095⑈ 440344002⑈ 000130⑈ 11

Yeshwantrao Chavan College of Engineering
 Hingna Road Wanadongri,
 NAGPUR - 441110

Dharmik R C
 Ledger Account
 9890388301

1-Apr-2018 to 2-Nov-2018

Page 1
 Credit
 2,846.00

Date	Particulars	Vch Type	Vch No.	Debit	Credit
8-5-2018	By Student Project Expenses Primary Cost Category Information Technology Primary Cost Category Information Technology Towards expenses incurred for student project, "Portable Tracking Device/ System. "student of IT Dept [Abhishek Hadaoo, Amol Wadhone Rakesh Kumar & Swapnil Gokhale]	JOURNAL_	YCCE/ JV- 112	2,846.00 Dr	
23-10-2018	To Tirupati Urban Co-Operative Bank Ltd., 130 Cheque Primary Cost Category Information Technology Ch. no. 006922 dt. 23.10.18 issued towards expenses of student project on Portable tracking device/system	Bank Payment	YCCE/BP/ 1596		2,846.00 Cr
				2,846.00	2,846.00

TIRUPATI URBAN CO-OPERATIVE BANK LTD.
 Shradhanand Peth Branch, 172, Shradhanand Peth
 South Ambrazari, Nagpur 440010.
 IFS CODE : HDFC0CTUB02

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE
 Date
 दिनांक

R.C. Dharmik Tucb- 2221

A/c Payee

or Bearer

Two Thousand Eight Hundred Forty Six Only

₹

Current A/c. No.: 002002100000130

Shadurje
G...
...

YESHWANTRAO CHAVAN COLLEGE OF ENGG.
 Please sign above

⑈006922⑈ 440344002⑈ 000130⑈ 11

Estimate of Project Expenses

Annexure "A"

Name of Institution : Yeshwantrao Chavan College of Engineering, Nagpur

Academic Session : 2018-19

Department : Electronics Engineering
UG

Sr. No.	Title of Project	Name of Students	Roll No.	Likely Date of Commencement & Completion of Project		Estimate of Project			Total Estimated Cost (a) + (b) + (c)	Guide Name Remark
				Commencement	Completion	(a) Cost of Major Components (Rs.)	(b) Fabrication Cost (Rs.)	(c) Other Expenses (Rs.)		
1	A high speed and energy efficient Full Adder Design	Pranay Kalbhut	55	Jul-18	Apr-19	2,298.72			2,298.70	Dr. P. P. Zode
		Akanksh Makawade	1							
		Vedant Dhoble	67							
		Vaishnavi Dhote	28							
2	Quadcopter-A Smarter Way of Pesticide Spraying	Nagesh Jankwade	143	10-Aug-18	31/3/19	15,143			15,143	Dr. Y. A. Gaidhani
		Sanjay Kamble	68							
		Vaishnavi Pathe	142							
		Pratiksh Dange	11							
		Akanksh Wagh	33							
3	Alert System to prevent animal Vehical Collision	Minal Gade	29	20-Sep-18	23-Mar-19	4,538			4,538	Prof. Aniket Gokhale
		Neha Avghade	12							
		Shryas Partke	52							
		Rushikesh Joshi	29							
4	Smart Electricity meter with load theft Detection	Kajal Humane	9	5/8/2018	12/3/2019	5,639			5,639	Mrs. T. G. Pansse
		Prachi Nandeshwar	14							
		Latika Kokade	32							
		Kajal Wankhede	31							
5	Multifunctional Autonomus Farmingbot	Pranali Kirpade	16	Jul-18	Apr-19	9,440			9,440	Prof. M. S. Pawar
		Renuka Hole	22							
		Vaishnavi Turasakar	27							
		Aditya Matharkar	38							
6	Glass Cleaner	Purva Madan	20	Jul-18	Apr-19	6986..70			6986..70	Dr. P. M. Palsodkar
		Nikita Pal	30							
		Shubham Sonarkar	63							
		Mohsin Shekh	51							
		Kaustubh Wakodkar	164							
7	Survillence Robot for surface	Nakul Rastogi	144	Jun-19	Mar-19	9,737			9,737	Dr. R. D. Thakre
		Kartik Gopal	141							
		Vaishali Korde	121							
		Devyabni Kadu	105							

8	Ardino data glass	Amit Khawse	131	Apr-18	18/3/19	15,983		15,983	Mrs. P.P. Zode
		Tejas Dhomne	160						
		Harshal Shambharkar	137						
9	Design of Rectagular Microstrip Antecna with DGS at 2.45 G	Chanden Uikey	135	20.6.18	30.3.19	3,486		3,486	Prof. A.B. Thater Mrs.
		Athrav Parkhi	70						
		Mansi Vibhute	30						
		Pragati Godhane	15						
		Srvesh Sahastrabudhe	60						
					Total		73,251		
	PG								
1	IOT Based facilly smart phone security ssystem	Kajal Ambadkar		18-Jul	April,19	4,632		4,632	Dr. P.K. Dakhole
2	E Shape Patch Antecna Array with DGS	Priyanks Sonkar		18-Jul	April, 19	3520		3520	Prof. A.B. Thater
					Total	8152		8152	

Remarks By Head of the Department - Recommended no. of project - 09 PG-02

Total Estimated Cost Rs. - - 81,403.00

Okant
Signature of
Head of the Department.

Approved / Not Approved
GS
Principal

IMPLEMENTATION OF REVERSIBLE DATA HIDING IN ENCRYPTED IMAGE

This project report is submitted to

Yeshwantrao Chavan College of Engineering

**(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University) In partial fulfillment of the requirement**

For the award of the degree

of

Master of Technology in Electronics Engineering

by

Krutika Parmanand Dhande

Under the guidance of

Dr. Atish Khobragade



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IMPLEMENTATION OF REVERSIBLE DATA HIDING IN ENCRYPTED IMAGE" has been successfully completed by **Krutika Parmanand Dhande** under the guidance of **Dr. Atish Khobragade** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Electronics Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**, Nagpur.



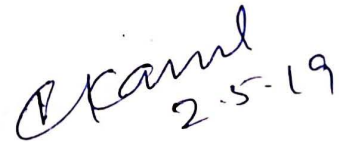
Signature

Dr. Atish Khobragade
(Guide)



Signature

Mrs. U.S. Ghodeswar
(Co-ordinator)



Signature

Dr. P.T. Karule
(HoD, EE Dept.)



Signature of External Examiner:

Name: **Dr. P.R. Rothe**

Date of Examination: **4.5.19**

LOSSLESS IMAGE COMPRESSION USING LZW ALGORITHM FOR REAL TIME APPLICATIONS

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in Electronics

by

Miss. Rutuja Sunil Channe

Under the guidance of

Shrikant Y.Ambatkar



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "LOSSLESS IMAGE COMPRESSION USING LZW ALGORITHM FOR REAL TIME APPLICATION" has been successfully completed by Miss. Rutuja Sunil Channe under the guidance of Mr. **Shrikant Ambatkar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Electronics, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*), Nagpur.



Signature
Shrikant Y. Ambatkar
(Guide)



Signature
Dr. U.S. Ghodeswar
(Co-ordinator)



Signature
Dr. P. T. Karule
(HoD, EE, Dept.)



Signature of External Examiner:

Name: *Dr. P. R. Rothe*

Date of Examination: *4.5.19*

TELECONSULTATION AND TELEDIAGNOSIS USING IoT MODULE

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj
Nagpur University)*

*In partial fulfillment of the
requirement for the award of the
degree*

Of

Master of Technology in Electronics Engineering

By

Yogesh D. Ahir

Under the guidance of

Dr. S. V. Rathkanthiwar



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur)*

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "TELECONSULTATION AND TELEDIAGNOSIS USING IoT MODULE" has been successfully completed by YOGESH D. AHIR under the guidance of **Dr. S. V. Rathkanthiwar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Electronics Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**




Signature

Dr. S. V. Rathkanthiwar
(Guide)



Signature

Dr. U. S. Ghodeswar
(Coordinator)



Signature

Dr. P. T. Karule
(HoD, EE Dept.)



Signature of External Examiner

Name: **Dr. D. J. Dahigamkar**
Date of Examination: **04/05/2019**

IDENTIFICATION OF LEAF DISEASES IN AGRICULTURE CROPS

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University)*

In partial fulfillment of the requirement

For the award of the degree

Of

Master of Technology in Electronics Engineering

By

Charulata S. Raut

Under the guidance of

Prof. A. V. Gokhale



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)*

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IDENTIFICATION OF LEAF DISEASES IN AGRICULTURE CROPS" has been successfully completed by CHARULATA RAUT under the guidance of Prof. **A. V. Gokhale** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Electronics Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**



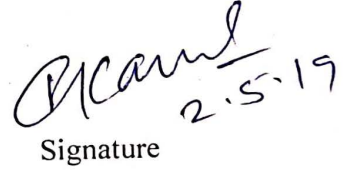
Signature

Prof. A. V. Gokhale
(Guide)



Signature

Dr. U. S. Ghodeswar
(Coordinator)



Signature

Dr. P. T. Karule
(HoD, EE Dept.)



Signature of External Examiner

Name: **Dr. D. J. Daligaonkar**
Date of Examination: **04/05/2019**

MRI IMAGES RECONSTRUCTION USING GENERATIVE ADVERSARIAL NETWORK

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

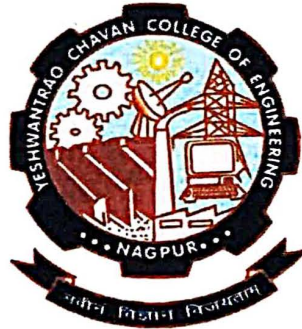
Master of Technology in Electronics Engineering

by

Priyanka Milind Shende

Under the guidance of

Prof. Mahesh S. Pawar



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

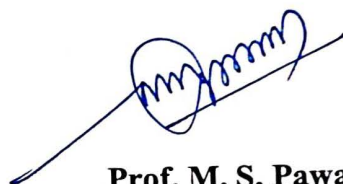
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "MRI IMAGES RECONSTRUCTION USING GENERATIVE ADVERSARIAL NETWORK" has been successfully completed by Priyanka Milind Shende under the guidance of Prof. M. S. Pawar in recognition to the partial fulfillment for the award of the degree of Master of Technology in Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.

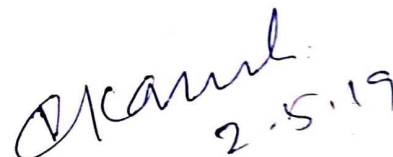


Prof. M. S. Pawar

(Guide)



Dr. U. S. Ghodeswar
(Co-ordinator)



2.5.19

Dr. P. T. Karule
(HoD, EE Dept.)



Signature of External Examiner:

Name: Dr. D. J. Dahigaonkar

Date of Examination: 04/05/2019

IMPLEMENTATION OF DIGITAL WATERMARKING FOR COLOR IMAGES USING DWT

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

for the award of the degree

of

Master of Technology in Electronics Engineering

by

Mr. Aditya Anantrao Awaghate

Under the guidance of

Dr Rajesh. D. Thakare



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IMPLEMENTATION OF DIGITAL WATERMARKING FOR COLOR IMAGES USING DWT" has been successfully completed by Mr. Aditya Anantrao Awaghate under the guidance of Dr. Rajesh D. Thakare in recognition to the partial fulfillment for the award of the degree of Master of Technology in Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.



Dr. Rajesh. D. Thakare
(Guide)



Dr. U. S. Ghodeswar
(Co-ordinator)



Dr. P. T. Karule
(HoD,EE Dept.)



Signature of External Examiner:

Name: Dr. P. R. Rothe

Date of Examination: 4.5.19

DESIGN OF QUADRATURE ERROR CORRECTION LOOP FOR COMMUNICATION

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University)*

In partial fulfillment of the requirement

For the award of the degree

Of

Master of Technology in VLSI Design

By

Bhagyashri D. kale

Under the guidance of

Dr.U.S.Ghodeswar



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)*

NAGPUR – 441 110

2018-2019

|

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DESIGN OF QUADRATURE ERROR CORRECTION LOOP FOR COMMUNICATION" has been successfully completed by Bhagyashri kale under the guidance of **Dr. U.S.Ghodeswar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in VLSI Design, **Yeshwantrao Chavan College of Engineering** (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*)



Signature

Dr.U.S.Ghodeswar
(Guide and
coordinator)



Signature

Dr. P. T. Karule
(HoD, EE Dept.)



Signature of External Examiner

Name: **S.S. Darle**

Date of Examination: **4/5/19**

Fractal Image Compression by using quantized quad- tree partitioning technique

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

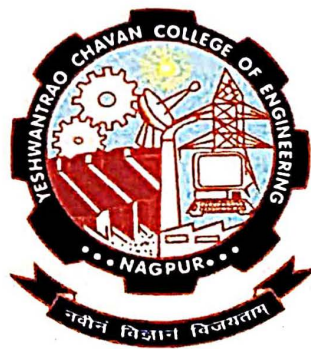
Master of Technology in VLSI Design

by

Miss. Kiran Dilip Shende

Under the guidance of

Dr. A. S. Khobragade



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)*

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Fractal image compression by using quantized quad- tree partitioning technique" has been successfully completed by Miss. Kiran Dilip Shende under the guidance of **Dr. A. S. Khobragade** in recognition to the partial fulfillment for the award of the degree of Master of Technology in VLSI Design, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*), Nagpur.



Signature

Dr. A. S. Khobragade

(Guide)



Signature

Mrs. U. S. Ghodeswar

(Co-ordinator)



Signature

Dr. P. T. Karule

(HoD, EE Dept.)



Signature of External Examiner:

Name: **Dr. P. R. Rothe**

Date of Examination: 4/5/19

E SHAPE PATCH ANTENNA ARRAY WITH DGS

This project report is submitted

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University)*

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

of

Master of Technology in VLSI Design

by

Priyanka R. Sonkar

Under the guidance of

Prof. A.B.Thatere



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019


CERTIFICATE OF APPROVAL


Certified that the project report entitled E shape Patch Antenna Array with DGS has been successfully completed by Priyanka R. Sonkar under the guidance of **Prof A.B. Thatere** in recognition to the partial fulfillment for the award of the degree of Master of Technology in VLSI Design engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University), Nagpur.


Signature

Assoc. Prof. A.B Thatere

(Guide)


Prof. U. S. Ghodeswar
(Coordinator)


Dr.P.T.Karule
(HOD, EE Dept.)


Signature of External Examiner:

Name: Dr. S. S. Dore

Date of Examination: 4/5/2019

Fractal Image Compression by using quantized quad- tree partitioning technique

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in VLSI Design

by

Miss. Kiran Dilip Shende

Under the guidance of

Dr. A. S. Khobragade



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)*

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “Fractal image compression by using quantized quad- tree partitioning technique” has been successfully completed by Miss. Kiran Dilip Shende under the guidance of **Dr. A. S. Khobragade** in recognition to the partial fulfillment for the award of the degree of Master of Technology in VLSI Design, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*), Nagpur.



Signature

Dr. A. S. Khobragade

(Guide)



Signature

Mrs. U. S. Ghodeswar

(Co-ordinator)



Signature

Dr. P. T. Karule

(HoD, EE Dept.)



Signature of External Examiner:

Name: **Dr. P. R. Rothe**

Date of Examination: **4.5.19**

COMPRESSOR BASED DESIGN OF LOW POWER VEDIC MULTIPLIER

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in VLSI Design

by

Payal L. Sharnagat

Under the guidance of

Dr. P. T. Karule

Under the co-guidance of

Mrs. Rashmi Keote



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

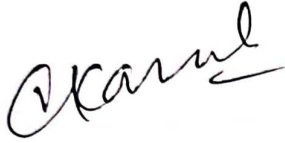
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “Compressor based Design of Low Power Vedic Multiplier” has been successfully completed by Payal L. Sharnagat under the guidance of **Dr. P. T. Karule** and co-guidance of **Mrs. Rashmi Keote** in recognition to the partial fulfillment for the award of the degree of Master of Technology in VLSI Design, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*)



Dr. P. T. Karule
(Guide)




Mrs. Rashmi Keote
(Co- Guide)



Dr. U. S. Ghodeswar
Coordinator, M.Tech (EE),
M.Tech (VLSI Design)



Dr. P. T. Karule
(HoD, EE)



Signature of External Examiner
Name: **S.S. Dore**

Date of Examination: **4/5/19**

Stochastic Fast Convolution

*This project report is submitted to
Yeshwantrao Chavan College of Engineering*

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

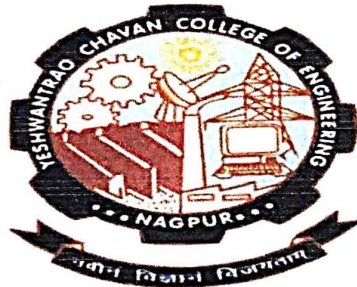
Master of Technology in VLSI Design

By

Sana Kausar Ansari

Under the guidance of

Dr.P.P.Palsodkar



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

**YESHWANTRAO CHAVAN COLLEGE OF
ENGINEERING,**

**(An autonomous institution affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur)**

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled **Stochastic Fast Convolution** has been successfully completed by **Sana Kausar Ansari** under the guidance of **Dr.P.P.Palsodkar** in recognition to the partial fulfillment for the award of the degree of Master of Technology **VLSI Design Engineering**, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**



Signatures

Dr.U.S.Ghodeswar

Coordinator

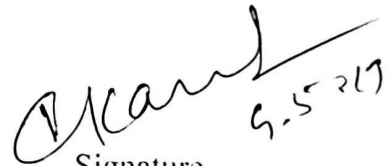
M.Tech(VLSI Design)



Signature

Dr.P.P.Palsodkar

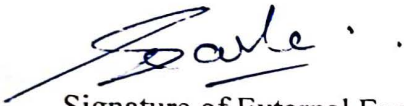
(Guide)



Signature

Dr.P.T.Karule

(HoD,EE)



Signature of External Examiner

Name **S.S.Doyle**

Date of Examination: **4/5/19**

IOT BASED SMART HOME SECURITY SYSTEM

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in VLSI Design

by

Kajal M. Ambadkar

Under the guidance of

Dr. P. K. Dakhole



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IOT Based Smart Home Security System" has been successfully completed by KAJAL AMBADKAAR under the guidance of **Dr. P. K. Dakhole** in recognition to the partial fulfillment for the award of the degree of Master of Technology in VLSI Design, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**



Signature

Dr. P. K. Dakhole
(Guide)



Signature

Dr. Mrs. U. S. Ghodeswar
(Coordinator)



Signature

Dr. Mr. P. T. Karule
(HOD, EE Dept.)



Signature of External Examiner

Name: **Dr. D. J. Daligeonkar**

Date of Examination: **04/05/2019**

DESIGN OF QUADRATURE ERROR CORRECTION LOOP FOR COMMUNICATION

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University)*

In partial fulfillment of the requirement

For the award of the degree

Of

Master of Technology in VLSI Design

By

Bhagyashri D. kale

Under the guidance of

Dr.U.S.Ghodeswar



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

**(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)**

NAGPUR – 441 110

2018-2019

|

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DESIGN OF QUADRATURE ERROR CORRECTION LOOP FOR COMMUNICATION" has been successfully completed by Bhagyashri kale under the guidance of **Dr. U.S.Ghodeswar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in VLSI Design, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**



Signature

Dr.U.S.Ghodeswar

**(Guide and
coordinator)**



Signature

Dr. P. T. Karule

(HoD, EE Dept.)



Signature of External Examiner

Name: **Dr. S. S. DORLE**

Date of Examination: **4/5/19**

“DESIGN AND FABRICATION OF COMPACT COMPOSTER”

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

**Bachelor of Engineering in
Mechanical Engineering**

By

ABHISHEK AGRAWAL

CHETAN PATIL

KAMAL TARWANI

PARAS BODHALE

PRAJWAL LANGDE

PRATIK DHAGE

Under the guidance of

Dr. S. S. KHEDKAR



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

This is to certify that the project report entitled "DESIGN AND FABRICATION OF COMPACT COMPOSTER" has been successfully completed by ABHISHEK AGRAWAL, KAMAL TARWANI, PARAS BODHALE, CHETAN PATIL, PRATIK DHAGE, PRAJWAL LANGDE under the guidance of **DR. S. S. KHEDKAR** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

(Dr S.S. KHEDKAR)



Signature
Prof. N. J. Giradkar
(Coordinator)



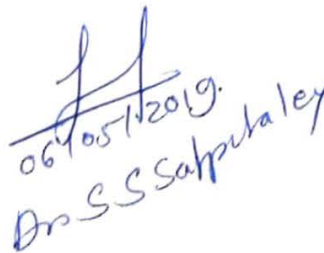
Signature

Prof. S. S. Chaudhari
(HOD, ME Dept.)

Signature of External Examiner:

Name:

Date of Examination:


06/05/2019.
Dr. S.S. Sahputale

DESIGN AND DEVELOPMENT OF UNIVERSAL GOVERNOR EXPERIMENTAL SETUP

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Mechanical Engineering

By

1. AMIT

3. NIKHIL RENGE

2. ATHARV JUMDE

4. RUPESH HAKANDE

Under the guidance of

Prof. D. Y. Shahare



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DESIGN AND DEVELOPMENT OF UNIVERSAL GOVERNOR EXPERIMENTAL SETUP" has been successfully completed by AMIT, ATHARV JUMDE, NIKHIL RENGE, RUPESH HAKANDE under the guidance of Prof. D. Y. SHAHARE in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University.)




Signature

Prof. D. V. SHAHARE
(Guide)

Signature

Prof. N. J. Giradkar
(Project Co-ordinator)



HOD
Department of ME
YCCE
Dr. S. S. Chaudhari
(HOD, ME Dept.)



Signature

Signature of External Examiner:

Name: Dr. Nilesh Anant Chakre, Nagpur

Date of Examination: 15/12/2019

**DESIGN AND FABRICATION OF SETUP FOR
DETERMINATION OF HTC OVER A FLAT VERTICAL PLATE
SUBJECTED TO UHF AND FORMULATION OF EMPIRICAL
CORRELATION IN NATURAL CONVECTION**

This project report is submitted to

Yeshwantrao Chavan College of Engineering , Nagpur

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Mechanical Engineering

by

Ankit Prakash Dahekar

Charandas Domaji Mahamandre

Vinay Mahadeo Wankhede

Under the guidance of

Prof. V. M. Korde



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

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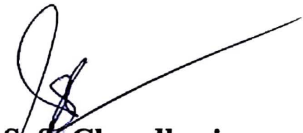
CERTIFICATE OF APPROVAL

Certified that the project report entitled “**DESIGN AND FABRICATION OF SETUP FOR DETERMINATION OF HTC OVER A FLAT VERTICAL PLATE SUBJECTED TO UHF IN NATURAL CONVECTION AND FORMULATION OF EMPIRICAL CORRELATION**” has been successfully completed by **Ankit Dahekar, Charandas Mahamandre And Vinay Wankhede** under the guidance of **Prof. V. M. Korde** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Prof. V. M. Korde

(Project guide)



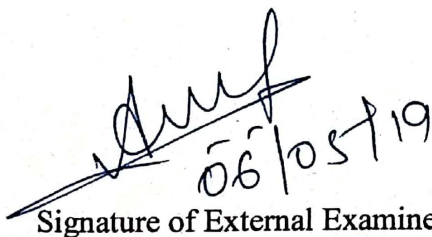
Dr. S.S. Chaudhari

(HOD, ME Dept.)



Prof. N.J. Giradkar

(Project Coordinator)



06/05/19

Signature of External Examiner

Name :- **Dr. A.M. Andhare**
RCOEM, Nagpur

Date of Examination: **06/05/19**

**DESIGN AND FABRICATION OF SETUP FOR
DETERMINATION OF HEAT TRANSFER COEFFICIENT
OVER A FLAT VERTICAL PLATE SUBJECTED TO UHF
IN FORCED CONVECTION.**

This project report is submitted to

Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

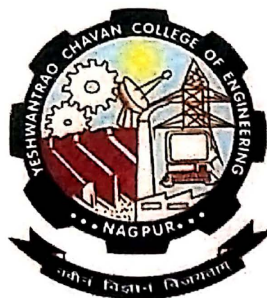
Bachelor of Engineering in Mechanical Engineering

By

**Rahul B. Likhar
Shubham A. Dhande
Gunvanta Admane
Tushar V. Jambhulkar**

Under the guidance of

Prof. V. M. Korde



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)*


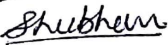
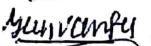
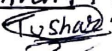
NAGPUR – 441 110


2018-2019


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CERTIFICATE OF APPROVAL

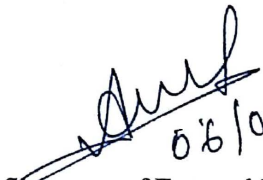
Certified that the project report entitled "DESIGN AND FABRICATION OF SETUP FOR DETERMINATION OF HEAT TRANSFER COEFFICIENT OVER A FLAT VERTICAL PLATE SUBJECTED TO UHF IN FORCED CONVECTION." has been successfully completed by RAHUL BHANUDAS LIKHAR, SHUBHAM ANIL DHANDE, GUNVANTA VIJAYRAO ADMANE, TUSHAR VILAS JAMBHULKAR under the guidance of Prof. V. M. Korde in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Yeshwantrao Chavan College of Engineering(*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*)

Signature
Rahul B. Likhkar 
Shubham A. Dhande 
Gunvanta Admane 
Tushar V. Jambhulkar 


Prof. V. M. Korde
(Project Guide)


Dr. S. S. Chaudhari
(HOD, ME Dept.)


Prof. N. J. Giradkar
(Project Coordinator)


08/05/19
Signature of External Examiner
Name : Dr. A. M. Andhare (RCOEM, Nagpur)
Date of Examination:

**DESIGN AND FABRICATION OF COCONUT WATER
EXTRACTION, DEHUSKING AND COCOPEAT
FORMING MACHINE**

This project report is submitted to

Yeshwantrao Chavan College of Engineering
*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University)*

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in

Mechanical Engineering

By

Pooja A. Bante
Sameer Suryawanshi

Prasanna Meshram

Sakshi Meshram
Dhanashree Barai

Under the guidance of

Dr. S. S. Chaudhari



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuvak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING


**(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)**


NAGPUR-441 110

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DESIGN AND FABRICATION OF COCONUT WATER EXTRACTION, DEHUSKING AND COCOPEAT FORMING MACHINE" has been successfully completed by the students given below under the guidance of DR. S. S. CHAUDHARI in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)


Dr. S. S. Chaudhari
(Project Guide)


Prof. N. J. Giradkar
(Project Co-ordinator)


Dr. S. S. Chaudhari
(HOD, ME Dept.)

Signature of External Examiner

Name: Prof. R. D. Thawar

Date of Examination: 12/12/2024

DESIGN AND DEVELOPMENT OF AUTOMATIC WALKER

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Mechanical Engineering

By

Mr. Himanshu Lute

Mr. Manthan Diwate

Mr. Mohit Fuke

Mr. Tanmay Moon

Under the guidance of

Prof. Rajesh G Bodkhe



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR 441 110

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DESIGN And DEVELOPEMENT OF AUTOMATIC WALKER" has been successfully completed by HIMANSHU LUTE, MANTHAN DIWATE, MOHIT FUKI and TANMAY MOON under the guidance of **PROF. RAJESH G BODKHE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, **Yeshwantrao Chavan College of Engineering**(An Autonomous Institution Affiliated to *Rashtrasant Tukadoji Maharaj Nagpur University*).



Signature

Prof. Rajesh G Bodkhe
(Guide)



Dr. S.S. Chaudhari
(HOD, ME Dept.)

Signature of External Examiner:

Name: C.N. Sakhle

Date of Examination: 8/5/2019

DESIGN OF PAINT GEAR PUMP

This project report is submitted to

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Mechanical Engineering

By

Ankit B. Hajare

Sourabh B. Jiwtode

Akansha D. Jogawe

Under the guidance of

Dr. S. P. Untawale



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

DEVELOPMENT OF INTELLIGENT BIKE SYSTEM

This project report is submitted to

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

By

Mr. AKSHAY RAGHUSHE

Mr. KUMESH BANKAR

Mr. NIKHIL LAHE

Mr. PUSHKAR CHAVAN

Mr. ROHIT PANZADE

Under the guidance of

Prof. P.N. SHENDE



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

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DECLARATION

We certify that

- a. The work contained in this project has been done by us under the guidance of our supervisor.
- b. The work has not been submitted to any other Institute for any degree or diploma.
- c. We have followed the guidelines provided by the Institute in preparing the project report.
- d. We have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- e. Whenever we have used materials (data, theoretical analysis, figures, and text) from other sources, we have given due credit to them by citing them in the text of the report and giving their details in the references. Further, we have taken permission from the copyright owners of the sources, whenever necessary.

Name of students:

Akshay Raghushie

Kumesh Banker

Nikhil Lahe

Pushkar Chavan

Rohit Panzade

A Raghushie
K Banker
N Lahe
P Chavan
R Panzade

iii

CERTIFICATE OF APPROVAL

Certified that the project report entitled "**DEVELOPMENT OF INTELLIGENT BIKE SYSTEM**" has been successfully completed by Akshay Raghushie, Kumesh Bankar, Nikhil Lahe, Pushkar Chavan, Rohit Panzade, under the guidance of **Prof. P. N. SHENDE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Yeshwantrao Chavan College of Engineering *(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)*

[Signature]

Signature

Prof. P. N. SHENDE

(Guide)

[Signature]

Signature

Prof. N.J. Giradkar

(Coordinator)

[Signature]

Signature

Dr. S. S. Chaudhari

(HOD, ME Dept.)

[Signature]

Signature of External Examiner

Name, S.N. Washmay

Date of Examination 5/4/19

DESIGN AND FABRICATION OF PAPER BAG MAKING MACHINE

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasantukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Mechanical Engineering

By

Akshay Rane

Harshvardhan

Shital Sarode

Yash Hajare

Yashasvi Pawar

Under the guidance of

Prof. A.S. Bonde



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar YuwakShikshanSanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasantukadoji Maharaj Nagpur University, Nagpur)

PARAMETER OPTIMIZATION FOR OPTIMUM SURFACE FINISH IN FUSED DEPOSITION MODELING

This project report is submitted to

Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

*In partial fulfillment of the requirement
For the award of the degree
of*

Bachelor of Engineering in Mechanical Engineering

By

KOHINOOR NANDESHWAR

MEGH TUMANE

NITIN PATLE

SHRUTI SHRIWAS

Under the guidance of

Dr. J. P. GIRI SIR



DEPARTMENT OF Mechanical Engineering

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110
2018-2019

|

CERTIFICATE OF APPROVAL


Certified that the project report entitled "PARAMETER OPTIMIZATION FOR OPTIMUM SURFACE FINISH IN FUSED DEPOSITION MODELING" has been successfully completed by KOHINOOR NANDESHWAR, MEGH TUMANE, NITIN PATLE, SHRUTI SHRIWAS under the guidance of **Dr. J. P. GIRI** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature
Dr. Jayant P. Giri
(Guide)

Signature

Prof. N.J. Giradkar
(Co-ordinator)



Signature
Dr. S.S. Chaudhary
(HoD, ME Dept.)

Signature of External Examiner:
Name:-

Date of Examination:

DESIGN AND DEVELOPMENT OF VERTICAL WALLTILE CLEANING MACHINE

This project report is submitted to

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfilment of the requirement

For the award of the degree

Of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

By

Amey Bhoyar

Aditya Bhandwalkar

Mohit Bhivgade

Sanket Ganorkar

Yash Belkhode

Under the guidance of

Dr. S. T. Bagde



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)*

NAGPUR – 441 110

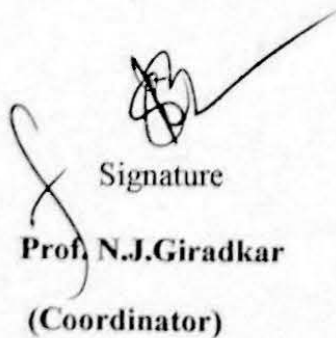
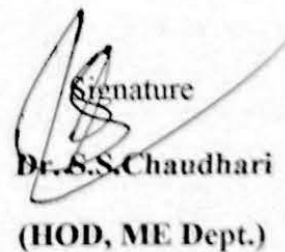
2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "**DESIGN AND DEVELOPMENT OF VERTICAL WALL TILE CLEANING MACHINE**" has been successfully completed by **AMEY BHOYAR, ADITYA BHANDWALKAR, MOHIT BHIVGADE, SANKET GANORKAR, YASH BELKHODE** under the guidance of **DR. S. T. BAGDE** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Mechanical Engineering. **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**


Signature

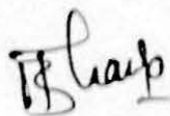
Dr. S. T. Bagde
(Guide)


Signature
Prof. N.J. Giradkar
(Coordinator)
Signature
Dr. S.S. Chaudhari
(HOD, ME Dept.)

Signature of External Examiner

Name: **R. D. Thare**

Date of Examination:



DESIGN AND DEVELOPMENT OF SPRAY PAINTING MACHINE

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfilment of the requirement

For the award of the degree

of

Bachelor of Engineering in

Mechanical Engineering

By

Chetan Raut

Deepak Pendam

Prasad Madankar

Utkarsh Deshmukh

Under the Guidance of

Dr. S.R Jachak



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

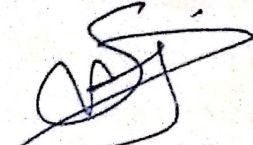
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441110

2018-2019


CERTIFICATE OF APPROVAL

Certified that the project report entitled "DESIGN AND DEVELOPMENT OF SPRAY PAINTING MACHINE" has been successfully completed by Chetan Raut, Deepak Pendam, Prasad Madankar and Utkarsh Deshmukh under the guidance of Dr S.R Jachak in recognition to the partial fulfilment for the award of the degree of Bachelor of Technology in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



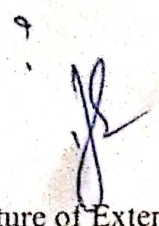
Dr. S R Jachak

(Project Guide)



Dr S.S Choudhari

(H.O.D M.E Dept)



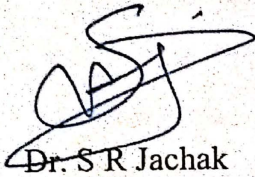
Signature of External Examiner:

Name: Prof. G.M. Dhote

Date of Examination: 6-5-19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DESIGN AND DEVELOPMENT OF SPRAY PAINTING MACHINE" has been successfully completed by Chetan Raut, Deepak Pendam, Prasad Madankar and Utkarsh Deshmukh under the guidance of Dr S.R Jachak in recognition to the partial fulfilment for the award of the degree of Bachelor of Technology in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Dr. S R Jachak

(Project Guide)



Dr S.S Choudhari

(H.O.D M.E Dept)

Signature of External Examiner:

Name: Prof. G.M. Dhote

Date of Examination: 6-5-19

**IMPROVING PRODUCTIVITY OF THE PLASTIC INDUSTRY - A CASE
STUDY AT BHARAT PLASTIC INDUSTRY**

This project report is submitted to

Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of degree

Of

**Bachelor of Engineering in
Mechanical Engineering**

By

Nikhil Rathod

Himanshu Atram

Sahil Gohane

Abhinav Mehendre

Under the guidance of

Prof. D.S. Kulkarni



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuvak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj University Nagpur - Nagpur)
NAGPUR-441110

2018-2019

CERTIFICATE OF APPROVAL


Certified that the project report entitled, "IMPROVING PRODUCTIVITY OF THE PLASTIC INDUSTRY -A CASE STUDY AT BHARAT PLASTIC INDUSTRIES" has been successfully completed by NIKHIL, RATHOD, SAHIL, GOHANE, HIMANSHU ATRAM, ABHINAV MEHENDRE under the guidance of Prof. D.N KASHYAP in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Signature

Prof. D.N Kashyap
(Project Guide)


Signature
Dr. S.S. Chaudhari
(HOD, Mechanical Dept.)

Signature
Prof. N.J. Giradkar
(Project Incharge)


Signature of External Examiner:
Name: Y.V. Dandekar
Date of Examination: 08/05/2019

Certificate

This is certify that **Nikhil Rathod, Sahil Goahne, Abhinav Mehendre, Himanshu Atram** are bonafied student of Bachelor of engineering course for academic **2015-2019** of the department Mechanical Engineering, Yeshwantrao Chavan College of engineering, Nagpur.

1

The candidates has worked under the supervision of **Prof D. N Kashyap** and has satisfactorily finished in project work in the academic session. The project submitted by them is theirs hard work and is complete so as to warranty its presentation foe examination.

Their project work titled **“Improving Productivity Of The Plastic Industry - A Case Study Of Bharat Plastic Industry”** which is partial fulfillment of the requirement for the above course.



Project Guide

Prof D N Kashyap

Mechanica Depatment

(YCCE)

Bharat Plastic Industries



Proprietor

Director

Mr Vaibhav Dhondrikar

(Bharat Plastic Pvt ltd)

Nagpur

"IMPROVEMENT IN EFFICIENCY OF SOLAR AIR COOLER"

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtraant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Mechanical Engineering

By

Mr. Ketan Milind Indurkar

Mr. Anshul Raju Taldikar

Mr. Pranay Madhukar Mahajan

Under the guidance of

Prof. Dilip I. Sangotra



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

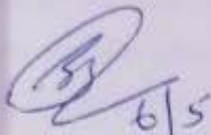
(An autonomous institution affiliated to Rashtraant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

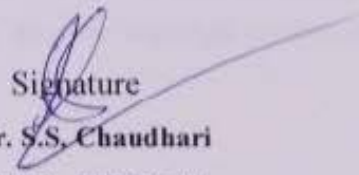
CERTIFICATE OF APPROVAL

Certified that the project report entitled "IMPROVEMENT IN EFFICIENCY OF SOLAR AIR COOLER" has been successfully completed by KETAN INDURKAR, ANSHUL TAKLIKAR and PRANAY MAHAJAN under the guidance of **PROF. DILIP L. SANGOTRA** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



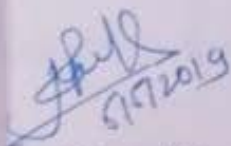
Signature

Prof. Dilip L. Sangotra
(Guide)



Signature

Dr. S.S. Chaudhari
(HOD, ME Dept.)



Signature of External Examiner:

Name: Dr. Niteen Awate

Date of Examination: 15/5/2019

**"DESIGN AND FABRICATION OF COTTON STALKS CUTTING
AND CRUSHING TOOL FOR POWER TILLER"**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

*In partial fulfillment of the requirement for
the award of the degree*

Of

Master of Technology in CAD/CAM

By

Prashant Atmaramji Khedkar

Under the guidance of

Dr. S. S. Khedkar



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha

**YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
NAGPUR - 441110**

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

Session 2018-19

“DESIGN AND FABRICATION OF COTTON STALKS CUTTING AND CRUSHING TOOL FOR POWER TILLER”

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

*In partial fulfillment of the requirement for
the award of the degree*

Of

Master of Technology in CAD/CAM

By

Prashant Atmaramji Khedkar

Under the guidance of

Dr. S. S. Khedkar



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha

**YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
NAGPUR - 441110**

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

Session 2018-19

**"PERFORMANCE INVESTIGATIONS OF SOLAR WATER
PUMPING SYSTEM USING SCREW PUMP"**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Master of Technology in

CAD/CAM

By

Mustaquim Shakeel Sheikh

Under the guidance of

Dr. R. B. Chhidge



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Vyavak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR - 441 110

2018 - 2019

“PERFORMANCE INVESTIGATIONS OF SOLAR WATER PUMPING SYSTEM USING SCREW PUMP”

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement
For the award of the degree

Of
Master of Technology in
CAD/CAM

By
Mustaquim Shakeel Sheikh

Under the guidance of

Dr. R. B. Chadge



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,


(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018 - 2019

DEPARTMENT OF MECHANICAL ENGINEERING
STUDENT PROJECT EXPENSES

Year	Name of the non government funding	Purpose of the Grant	Funds/ Grants received in INR
2018-19	S.D. KSHIRSAGAR	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	3805.00
2018-19	S.S. KHEDKAR	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	50474.00
2018-19	S.D. KSHIRSAGAR	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	4478.00
2018-19	R.B. CHADGE	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	4044.00
2018-19	D.Y.SAHARE	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	17565.00
2018-19	S.S. KHEDKAR	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	32820.00
2018-19	V.M. KORDE	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	14053.00
2018-19	V. M. KORDE	Being provision made towards student project expenses 18-19 of various faculty for mech. depatt.	15145.00
2018-19	Chadge R B	Expenses Incurred for Student Project on "Experimental Investigation of Diff.Configuration on PV Module Array" Session 2016-17-Student of Mechanical Engg. Anuj Ingle[Chadge R B]	10880.00


 Dr. S S Chaudhari
 HOD ME
 Dr. S. S. Chaudhari

Head, Dept. Of Mechanical Engineering
 YCCE, Nagpur



Department of Electrical Engineering

Reimbursement of project bill UG/PG student-18-19

Year	Name of Faculty	Purpose of grant	Funds/ Grants received (INR in lakhs)	COST CENTER
2018-19	(S.G. KADWANE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.06502	Electrical Engg
2018-19	(R.N. NAGPURE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.0506	Electrical Engg
2018-19	(S.P. NAGPURE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.08385	Electrical Engg
2018-19	(P.B. JOSHI)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.07333	Electrical Engg
2018-19	(P.S. PATIL)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.13243	Electrical Engg
2018-19	(S.P. ADHAU)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.05418	Electrical Engg
2018-19	(P.M. MESHRAM)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.02945	Electrical Engg
2018-19	(A.Y. FADNIS)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.12908	Electrical Engg
2018-19	(A.P. MUNSHI)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.13254	Electrical Engg
2018-19	(P.S. SHETE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.02128	Electrical Engg
2018-19	(R. M. MOHRIL)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.06818	Electrical Engg
2018-19	(S.B. REWATKAR)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.0801	Electrical Engg
2018-19	(P.S. SHETE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.08896	Electrical Engg
2018-19	(X.A. POTL)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.02814	Electrical Engg



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering


(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)


Hingna Road, Wanadongri, Nagpur - 441 110

2018-19	(S.G. KADWANI)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.06986	Electrical Engg
2018-19	(S.P. GAWANDE)	being provision made towards student project expenses for the session of 18-19 by various staff of Electrical engg.	0.04162	Electrical Engg

Project Coordinator

U.S.
U.V. Waghmare

 (Dr. B.Y. Bagde)
HOD, EL, YCCE


Principal

HYBRID POWER GENERATION USING SOLAR PANEL AND WIND TURBINE

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement
For the award of the degree
Of
Bachelor of Engineering in Electrical Engineering
By

Ankit A. Chumble

Mahesh P. Vairagade

Mithun A. Wanjari

Navinkumar R. Sahu

Sumit S. Shankarpure

Virag G. Shivdharkar

Under the guidance of

Prof. V. R. Doifode



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled
"HYBRID POWER GENERATION USING
SOLAR PANEL AND WIND TURBINE"
has been successfully completed by

Ankit A. Chumble

Mahesh P. Vairagade

Mithun A. Wanjari

Navinkumar R. Sahu

Sumit S. Shankarpure

Virag G. Shivdharkar

Under the guidance of

Prof. V. R. Doifode

In recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)




Prof. V. R. Doifode
(Project guide)



Prof. U. V. Waghmare (Umare)
(Project Coordinator)



Dr. B. Y. Bagde
(HOD, EL Dept.)


Signature of External Examiner

Name

Date of Examination:

**POWER GENERATION USING PIEZOELECTRIC MATERIALS
BY PLACING IT BENEATH THE SLEEPERS
OF RAILWAY TRACKS**

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Mayur Wanjari

Nitesh Charpe

Om Prakash Sharma

Parikshit Balpande

Pawan Amle

Rushikesh Vele

Anand Gawande

under the guidance of

Prof. Mrs. Xma R. Pote



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated To Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "POWER GENERATION USING PIEZOELECTRIC MATERIALS BY PLACING IT BENEATH SLEEPERS OF RAILWAY TRACKS " has been successfully completed by

Mayur Wanjari

Nitesh Charpe

Om Prakash Sharma

Parikshit Balpande

Pawan Amle


Rushikesh Vele

Anand Gawande

under the guidance of

Prof. Mrs. Xma R. Pote

in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



Dr. M. V. Palandurkar

(Co-Guide)



Prof. Mrs. Xma R. Pote

(Guide, EL Dept.)



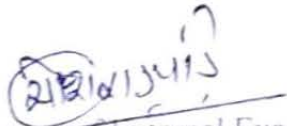
Prof. U. V. Waghmare (umre)

(Project Co-ordinator)



Dr. B. Y. Bagde

(HoD, EL Dept.)



Signature of External Examiner

Name:

Date of Examination:

**Analysis for replacing existing steam dryer with energy efficient
Electric dryer also design a SLD for CCL and power saving
opportunities by implementing a variable frequency drive for cold
well pump at JSW Kalmeshwar, Nagpur**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

- | | |
|------------------|------------------------|
| 1. Deepak Chafle | 3. Dhananjay Pimpalkar |
| 2. Pavan Rokade | 4. Shubham Balki |

Under the guidance of

Prof. P. S. Shete

(Assistant Professor, YCCE)

&

Mr. S. Chauhan

(Senior Manager JSW Steel Ltd.)



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

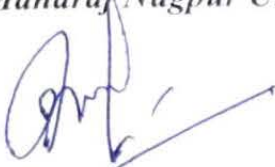
**(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj
University, Nagpur)**

NAGPUR – 441 110

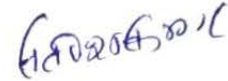
2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**Analysis for replacing existing steam dryer with energy efficient electric dryer also design a SLD for CCL and power saving opportunities by implementing a variable frequency drive for cold well pump at JSW, Kalmeshwar, Nagpur**” has been successfully completed by **Deepak M. Chafle, Pavan R. Rokade, Shubham T. Balki and Dhananjay G. Pimpalkar** under the guidance of **Prof. P. S. Shete** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in **Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.



Prof. P.S. Shete
(Project Guide)



Mr. S. Chauhan
(Project Guide)



Prof. P.B. Joshi
(Special-Term In charge)



Dr. B.Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner

Name:- **Ms. S. D. ABHYANKAR**

Date of Examination: **06/05/19**

Study of 400 KV EHV Substation at Durgapur

This project report is submitted to

Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

*In partial fulfillment of the requirement
For the award of the degree*

of

Bachelor of Engineering in Electrical Engineering

By

Nihal Kumar

Under the guidance of

Dr. B.Y. Bagde
(HOD, Electrical, YCCE)

&

Mr Palak Mani
(Dy. Manager, O & M, PGCIL)



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj University,
Nagpur)
NAGPUR – 441 110
2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Study of 400 KV EHV Substation at Durgapur" has been successfully completed by **Nihal Kumar** under the guidance of **Dr. B.Y. Bagde & Mr. Palak Mani** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.



Dr. B.Y. Bagde
(Guide) and (HOD-Electrical Department)



Mr. Palak Mani
(Project Guide)



Prof. P.B. Joshi
(Special Term Incharge)



Signature of External Examiner

Name **PRANAV AMBASEKAR**

Date of Examination: **06 May - 2019**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "TOTAL PRODUCTIVE MAINTENANCE, ENERGY CONSERVATION AND MANAGEMENT SYSTEM" has been successfully completed by

Pranjali Bhute

Akash Titirmare

Kisan Mesare

Kunal Nimje

Mrunali Tarale

Dhanshri Balapure

Swati Thakur

Swati Iwarkar

Tejaswi Chandekar

In recognition of partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING** (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.



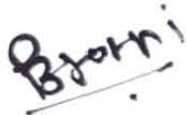
Prof. P.B. Joshi

(Project Guide)



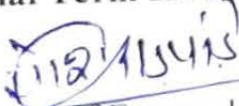
Mr. T. M. Manjunath

(Co-Guide)



Prof. P.B. Joshi

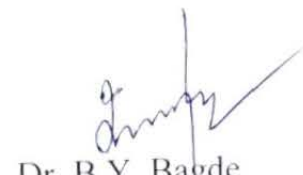
(Special Term Incharge)



Signature of External Examiner :-

Name :-

Date of Examination :-



Dr. B.Y. Bagde

(HOD-ELDept.)

SMART CONTROLLING SYSTEM

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in ELECTRICAL ENGINEERING

By

Arpit Dhok
Ritesh Ranjan
Shashi Ranjan

Abhishek Dhumal
Rutvik Choudhari
Suraj Askar

Vaibhav Pajai

Under the guidance of

Prof R. M. Gimonkar

Co-Guided by

Prof. S. Y. Ambatkar



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "SMART CONTROLLING SYSTEM" has been successfully completed by

Arpit Dhok

Abhishek Dhumal

Ritesh Ranjan

Rutvik Choudhari

Shashi Ranjan

Suraj Askar

Vaibhav Pajai

under the guidance of Prof. R. M. Gimonkar And co-guided by Prof. S.Y. Ambatkar in recognition to the partial fulfillment for the award of the degree of Bachelor of Technology in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Prof. U. V. Waghmare (Umre)

(Co-ordinator)



Signature

Prof. R. M. Gimonkar

(Project Guide)



Signature

Dr. B. Y. Bagde

(HOD, EL Dept.)



Signature

Prof. S. Y. Ambatkar

(Project Co-guide)



Signature of External Examiner

Name Dr. P. D. Debnar

Date of Examination: 6.05.19

ENERGY CONSERVATION BY AUTOMATIC SWITCHING OF CHARGING STATION

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj
Nagpur University)*

In partial fulfillment of the requirement

For the award of the degree

of

Bachelor of Engineering in Electrical Engineering

By

Nitesh Jadhao

Ashwini Karpe

Sarthak Belekar

Pragati Kadhav

Suraj Darwalkar

Sakshi Raut

Under the guidance of

PROF. T. D. TEMBHEKAR



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur)

NAGPUR -441110

2018-2019

Certificate of Approval

Certified that the project report entitled "Energy Conservation By Automatic Switching of Charging Station" has been successfully completed by **Nitesh Jadhao, Sarthak Belekar, Naraaj Darwalkar, Ashwini Karpe, Pragati Kadhav, Sakshi Raut** under the guidance of Prof. T. D. Tembhekar in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **Yashwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



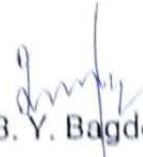
Mr. P.S. Gadmade
(Co-Guide)



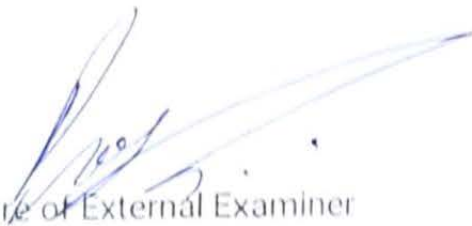
Prof. T. D. Tembhekar
(Guide)



Prof. U. V. Waghmare (Umre)
(Project Coordinator)



Dr. B. Y. Bagde
(HOD, Electrical Dept.)



Signature of External Examiner

Name:- Prasanna Prabharao Tilaxmare

Date of Examination: 6/15/19

SMART TECHNOLOGY FOR CLASSROOM

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Amita A. Narnaware

Kailas R. Londhe

Karishma J. Atram

Priyanka S. Dabhade

Sonu T. Thenge

Vivek S. Pawar

Under the guidance of

Prof. A. S. Lihare



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled " SMART TECHNOLOGY FOR CLASS ROOM " has been successfully completed by

Amita A. Narnaware

Priyanka S. Dabhadre

Kailas R. Londhe

Sonu T. Thenge

Karishma J. Atram

Vivek S. Pawar

In recognition to the partial fulfillment for the award for degree of bachelor in Electrical Engineering , **Yeshwantrao Chavan College Of Engineering** (An Autonomous Institution Affiliated To *Rashtrasant Tukadoji Maharaj Nagpur University*), Nagpur.

Signature

Prof. U.V. Waghmare (Umare)
(Project Coordinator)

Signature

Dr. B.Y. Bagade
(HOD, EL Dept.)

Signature

Prof. Atul S.L. Ilhare
(Project Guide)

Signature of External Examiner

Name

Date of Examination:

**TO STUDY MANUFACTURING OF ELECTRICAL
CONTROL PANEL.**

(SHREE BALAJI INDUSTRIES, NAGPUR)

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement
For the award of the degree

Of
Bachelor of Engineering in Electrical Engineering

By
Vaibhav G. Talkhande

Under the guidance of
Prof. Sandeep R. Gaigowal (Guide)

&
Mr. Pravin V. Gadve (Co-Guide)



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated To Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "TO STUDY MANUFACTURING ELECTRICAL CONTROL PANEL" has been successfully completed by Vaibhav Gunwant Talkhande under the guidance of **Prof. S. R. Gaigowal (Guide)** and **Mr. P. V. Gadve (Co-Guide)** in recognition to the partial fulfillment for the award of the degree of Bachelor of Technology in Electrical Engineering, **Yeshwantrao Chavan College of Engineering(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**



Prof. S. R. Gaigowal
(Guide)



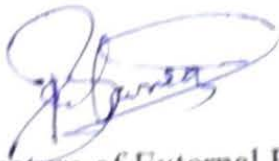
Mr. P. V. Gadve
(Co- Guide)



Prof. P. B. Joshi
(Special Term Incharge)



Dr. B. Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner

Name **B.S. NETANRAO**

Date of Examination: **08/05/2019**

*Analysis for replacing existing steam dryer with energy efficient
Electric dryer also design a M.D for C.I. and power saving
opportunities by implementing a variable frequency drive for cold
mill pump at JSW Kalmeshwar, Nagpur*

*This project report is submitted to
Yeshwantrao Chavan College of Engineering
(Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
In partial fulfillment of the requirement*

For the award of the degree

of

Bachelor of Engineering in Electrical Engineering

By

- | | |
|------------------|------------------------|
| 1. Deepak Chafle | 3. Dhananjay Pimpalkar |
| 2. Parash Rukade | 4. Shubham Balki |

Under the guidance of

Prof. P. S. Shete

(Assistant Professor, YCCE)

&

Mr. S. Chauthan

(Senior Manager JSW Steel Ltd.)



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuvak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

**(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj
University, Nagpur)**

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Analysis for replacing existing steam dryer with energy efficient electric dryer also design a SLD for CCL and power saving opportunities by implementing a variable frequency drive for cold well pump at JSW, Kalmeshwar, Nagpur has been successfully completed by Deepak M. Chafle, Pavan R. Rokad Shubham T. Balki and Dhananjay G. Pimpalkar under the guidance of **Prof. S. Shete** in recognition to the partial fulfillment for the award of the degree Bachelor of Engineering in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



Prof. P.S. Shete
(Project Guide)



Mr. S. Chauhan
(Project Guide)



Prof. P.B. Joshi
(Special-Term In charge)



Dr. B.Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner

Name:- **Mr. S. D. ABHYANKAR**

Date of Examination: **06/05/2019**

COMPRESSED AIR ENERGY STORAGE SYSTEM (An Alternate Solution for Energy Storage Methods)

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

in partial fulfillment of the requirement

for the award of the degree

of

Bachelor of Engineering in Electrical Engineering

by

Krunal Urade

Tushar Bhoyar

Tushar Girade

Mayur Deshmukh

Sagar Mehar

Ramchandra Sarode

Shruti Tinghase

under the guidance of

Prof. G. C. Gondhalekar



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled
“COMPRESSED AIR ENERGY STORAGE SYSTEM
(An Alternate Solution for Energy Storage Methods)” has been successfully completed by

Krunal Urade

Mayur Deshmukh

Tushar Bhojar

Sagar Mehar

Tushar Girade

Ramchandra Sarode

Shruti Tinghase

In recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur*)



Signature

Prof. U.V. Waghmare

(Project Co-ordinator)



Signature

Dr. B. Y. Bagade

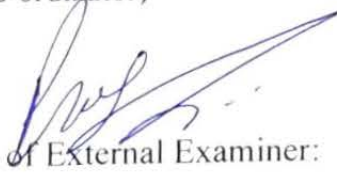
(HOD, EL Dept.)



Signature

Prof. G.C. Gondhalekar

(Project Guide)



Signature of External Examiner:

Name: *Prasanna Prabhakarrao Titamare*

Date of examination: *6 May 2019*

ENERGY CONSERVATION USING VARIABLE FREQUENCY DRIVE

This project report is submitted to
Yeshwantrao Chavan College of Engineering, Nagpur
(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement
For the award of the degree
of
Bachelor of Engineering in Electrical Engineering

by
Ashlesha Shrirao *Raksha Mahajan*
Aishwarya Giri *Medhavi Meshram*
Rashika Nanotkar *Yashasvi Dhamane*

Under the guidance of

Prof. N. T. Sahu
(Guide EL. Dept.)

Er. Amol Bhalerao
Er. Ankush Kamdi
(Co-guide)



DEPARTMENT OF ELECTRICAL
ENGINEERING

Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated To Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "ENERGY CONSERVATION USING VARIABLE FREQUENCY DRIVE" has been successfully completed by

Ashlesha Shirirao

Raksha Mahajan

Aishwarya Giri

Medhavi Meshram

Rashika Nanotkar

Yashasvi Dhamane

in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **Yeshwantrao Chavan College of Engineering** (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



Prof.N.T.Sahu

(Guide, EL Dept.)



Er.Amol Bhalerao

**(Co-Guide, Asst Er. Khaperkheda
Thermal power station)**

Er.Ankush Kamdi

**(Co-Guide, Sr. Service Engineer,
Ganesh Automation)**



**Prof.U.V.Waghmare (Umre)
(Project Co-ordinator)**



**Dr. B.Y. Bagde
(HOD, EL Dept.)**

Signature of External Examiner

Name: **B.S.NEPAKRAO**

Date of Examination: **06/05/2019**

BLADELESS WIND TURBINE

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Ambika Kulkarni

Niharika Yedekar

Animesh Khairkar

Shubham Badure

Shubham Bawaskar

under the guidance of

Dr. R. M. Moharil



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "BLADELESS WIND TURBINE" has been successfully completed by

Ambika Kulkarni

Niharika Yedekar

Animesh Khairkar

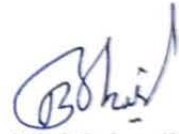
Shubham Badure

Shubham Bawaskar

under the guidance of

Dr. R. M. Moharil

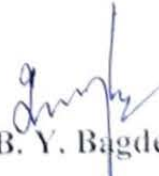
In recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*).




Dr. R. M. Moharil.
(Project Guide)



Prof. U. V. Waghmare (Umare)
(Project Coordinator)



Dr. B. Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner

Name Mrs. S. D. Aryanekar

Date of Examination: 06/05/2019

SUPERCAPACITOR BASED METRO TRAIN

This project report is submitted to

Yeshwantrao Chavan College of Engineering
*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj University,
Nagpur)*

*In partial fulfillment of the requirement
For the award of the degree*

of

Bachelor of Engineering in Electrical Engineering
By

Ashlesha Satpute
Sayali Thawkar
Pankaj Waghdhare

Shashwat Dhok

Priyanka Madgulla
Bhagesh Mathure
Sampresh Lipte

Under the guidance of

Dr. B.Y.Bagde



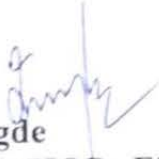
DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
*(An Autonomous institution affiliated to Rashtrasant Tukadoji Maharaj University,
Nagpur)*

NAGPUR – 441 110
2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Supercapacitor Based Metro Train" has been successfully completed by Ashlesha Satpute, Priyanka Madgulla, Sayali Thawkar, Bhagesh Mathure, Pankaj Waghdhare, Sampresh Lipte, Shashwat Dhok under the guidance of Dr.B.Y.BAGDE in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj University, Nagpur).



Dr. B.Y. Bagde
(Guide) and (HOD- Electrical Department)



Prof. U.V. Waghmare (Umre)
(Project Coordinator)

Signature of External Examiner

Name

Date of Examination:

INTELLIGENT WHEELCHAIR

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfilment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Kamini Patil

Pradnya Raut

Samruddhi Dewalkar

Shivani Lanjewar

Snehal Patil

Kaustubh Chichate

Rushikesh Warkhede

Under the guidance of

Prof. Gaurav Gondhalekar



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Intelligent Wheelchair" has been successfully completed by

Kamini Patil

Pradnya Raut

Samruddhi Dewalkar

Shivani Lanjewar

Snehal Patil

Kaustubh Chichate

Rushikesh Warkhede

nder the guidance of **Prof. Gaurav Gondhalekar** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electrical Engineering.

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur

University)



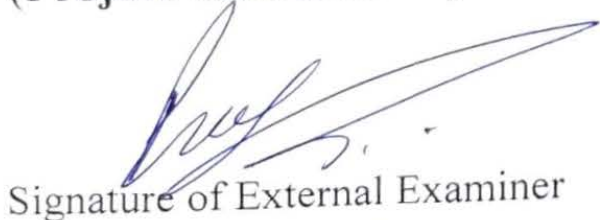
Prof. Gaurav C. Gondhalkar
(Guide)



Ujwala V. Waghmare (Umre)
(Project Coordinator)



Dr. B. Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner

Name: P. P. Titarmare

Date: 06/05/2019

**WIRELESS MONITORING AND CONTROLLING
OF TRANSFORMER OIL TEMPERATURE**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

In partial fulfillment of the requirement for the award of the degree

Of

Bachelor of Engineering in Electrical engineering

By

Abhijeet Sawalkar

Ashwin Girhepunje

Kunal Bopate

Runal Lokhande

Subham Durgey

Tushar Bawner

Tushar Bhakre

Under the guidance of

Dr. R. M. MOHARIL



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “Wireless Monitoring and Controlling of Transformer Oil Temperature” has been successfully completed by Abhijeet Sawalkar, Ashwin Girhepunje, Kunal Bopate, Runal Lokhande, Subham Durgey, Tushar Bawner and Tushar Bhakre under the guidance of Dr. R. M. Moharil in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Dr. R. M. Moharil

(Guide)



Prof. U.V. Waghmare (Umre)

(Project Co-ordinator)



Dr. B. Y. Bagde

(Head of EL. Dept.)



Signature of External Examiner

Name

Date of Examination:

ADVANCED SOLAR PUMPING SYSTEM

This project report is submitted to
Yeshwantrao Chavan College of Engineering, Nagpur
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
in partial fulfillment of the requirement
for the award of the degree
of
Bachelor of Engineering in Electrical Engineering
By

Sumit D. Meshram
Pratik K. Dahake
Tanmay B. Fulzele

Pranay M. Bhujbal
Saurabh V. Kapse
Adesh R. Bobde

under the guidance of

Prof. S R. Gaigowal



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur)*

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "ADVANCED SOLAR PUMPING SYSTEM" has been successfully completed by

Sumit D. Meshram

Pratik K. Dahake

Tanmay B. Fulzele

Pranay M. Bhujbal

Saurabh V. Kapse

Adesh R. Bobade

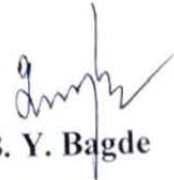
in recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.



Prof. S. R. Gaigowal
(Project Guide)

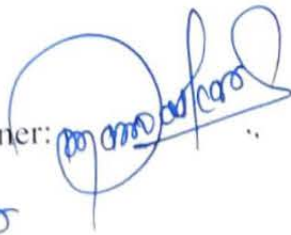


Prof. U. V. Waghmare (umre)
(Project Co-ordinator)



Dr. B. Y. Bagde
(HoD, EL Dept.)

Signature of External Examiner:



Name: P. M. Tarawade

Date of Examination: 06/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IoT BASED SMART ENERGY METER" has been successfully completed by

Mrinali Mankar
Nikita Patil
Prachi Gourkhede
Shradha Suryawanshi
Yashoda Manthanwar

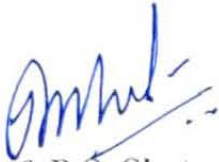
Kaustubh Dane
Latif Munne
Akanksha Dhabarde
Ankita Dharmadhikari

under the guidance of

Prof. P. S. Shete

Prof. N. U. Sambhe

In recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*), Nagpur.



Prof. P.S. Shete
(Guide EL Dept.)



Prof. N.U. Sambhe
(Guide CT Dept.)



Prof. U.V. Waghmare (Umre)
(Project Co-Ordinator)



Dr. B.Y. Bagde
(HoD EL Dept.)



Signature of External Examiner
Name:- PRANAV AMBASELKAR
Date of Examination 06 - May - 2019

AURDINO BASED PICK AND PLACE ROBOTIC VEHICLE

THIS PROJECT REPORT IS SUBMITTED TO

Yeshwantrao Chavan College of Engineering Nagpur

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of degree

Of

Bachelor of Engineering in Electrical Engineering

Akshay Khonde

Kalyani Gaykwad

Mausami Rahate

Tushar Wankhede

Ruchika Budhe.

Suraj Wakde.

Abhijeet Mandourney

Under the guidance of

Dr. S S GOKHALE.



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College Of Engineering Nagpur

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR -441 110

2018-2019

Certificate Of Approval

Certified that the project report titled “**ARDUINO BASED PICK AND PLACE ROBOTIC VEHICLE**” has been successfully completed by

Akshay Khonde

Kalyani Gayakwad

Mausami Rahate

Tushar Wankhede

Ruchika Budhe

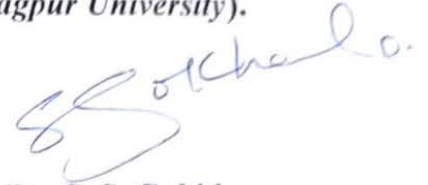
Suraj Wakde

Abhijeet Mandourney

in recognition to the partial fulfilment for the award of the degree of Bachelor of engineering in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**



Prof. U.V Waghmare (Umre)
(Project Coordinator)



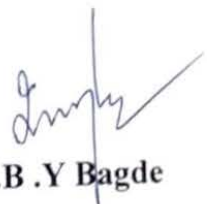
Dr. S. S. Gokhle
(Project guide)



Signature of External

Name **Dr. D. D. Debnar**

Date **6/5/19**



Dr. B. Y Bagde

(HOD, Electrical Dept.)

PLC BASED AUTOMATED BOTTLE FILLING PLANT

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Akshata Matte

Dhanashree Baxy

Prashant Umak

Prisha Gajbhiye

Pratiksha Morey

Onkar Gajbhe

Under the guidance of

Prof. J.A.Shaikh (Guide)

&

Prof.P.B.Joshi (Co-Guide)



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "PLC BASED AUTOMATED BOTTLE FILLING PLANT", has been successfully completed by

Akshata Matte

Prisha Gajbhiye

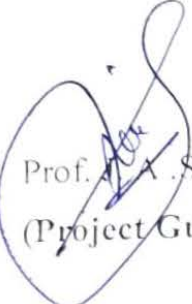
Dhanashree Baxy

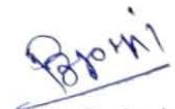
Pratiksha Morey


Prashant Umak


Onkar Gajbhe

In recognition of partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING** (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*), Nagpur.


Prof. A. A. Shaikh
(Project Guide)


Prof. P. B. Joshi
(Co-Guide)


Prof. U. V. Waghmare
(Project Co-ordinator)


Dr. B. Y. Bagde
(HOD-EL Dept.)


Signature of External Examiner

Name: Bhanav Ambaselkar

Date of Examination: 6/5/19

**UPGRADATION OF MONORAIL CARRIER SYSTEM IN
INDO RAMA SYNTHETICS INDIA LTD.**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University)*

In partial fulfillment of the requirement

For the award of the degree

of

Bachelor of Engineering in Electrical Engineering

By

Durgesh Shende

Nayan Chavhan

Under the guidance of

Prof. V R Doifode

Mr. Sunil Kale



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur)*

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “UPGRADATION MONORAIL CARRIER SYSTEM IN INDO RAMA SYNTHETICS (INDIA) LTD” has been successfully completed by **Durgesh Shende** and **Nayan Chavhan** under the guidance of **Prof. V R Doifode** in recognition to the partial fulfillment for the award of the degree of **Bachelor of Engineering in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**



Prof. V R Doifode
(Guide-EL Dept.)



Mr. Sunil Kale
(Co-Guide from INDO RAMA)



Prof. P B Joshi
(Project Co-ordinator Special term)



Dr. B Y Bagde
(HOD EL Dept)

Signature of External Examiner
Name:-
Date of Examination:



**OPTIMIZATION OF POWER CONSUMPTION IN ROLLING MILLS &
STANDARDISATION OF INSTRUMENTS AS PER PERFORMANCE AND
APPLICATION**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Aniket Rokade

Bhavesh Salve

Kshitij Tikle

Ranjeetkumar Rahangdale

Tanjil Sheikh

Under the guidance of

Prof. P. S. Shete

(Assistant Professor, YCCE)

&

Mr. J.H. Nigam

(Senior Manager, JSW Steel Ltd.)



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

i

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**OPTIMIZATION OF POWER CONSUMPTION IN ROLLING MILLS & STANDARDISATION OF INSTRUMENTS AS PER PERFORMANCE AND APPLICATION**” has been successfully completed by

Aniket Rokade

Bhavesh Salve

Kshitij Tikle

Ranjeetkumar Rahangdale

Tanjil Sheikh

in recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*), Nagpur.



Prof. P.S. Shete
(Project Guide)



Mr. J.H. Nigam
(Project Guide)



Prof. P.B. Joshi
(Special-Term In charge)



Dr. B. Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner:

Name: **S. B. Abhyankar**

Date of Examination: **6.05.2019**

“REAL TIME ENERGY MONITORING SYSTEM FOR SMART OFFICES”

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfilment of the requirement

For the award of the Degree

Of

Bachelor of Engineering In Electrical Engineering

By

Jitendra Maind

Saurabh Dhole

Tushar Nikose

Sagar Chikhale

Shripad Channe

Vaibhav Khobragade

Under the guidance of

Prof. P.B. Joshi



DEPARTMENT OF ELECTRICAL ENGINEERING

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj ,Nagpur University,Nagpur)

NAGPUR – 441110

2018-2019

CERTIFICATE OF APPROVAL

This is to certify that project report entitled "REAL TIME ENERGY MONITORING SYSTEM FOR SMART OFFICES" has been successfully completed by

Jitendra Maind

Sagar Chikhale

Saurabh Dhole

Shripad Channe

Tushar Nikose

Vaibhav Khobragade

under the guidance of Prof P.B. Joshi(Guide) and Prof. N.M.Magrulkar (Co-Guide) in recognition to the partial fulfilment for the award of degree of Bachelor of technology in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Prof.P.B. Joshi

(Project guide)



Prof. Nikhil Magrulkar

(Project Co Guide, CT-Dept)



Prof. U.V. Waghmare (Umre)

(Project Co-ordinator)



Prof. B.Y. Bagde

(HOD, EL Dept.)

Signature of External Examiner

Name

Rahul D. Jawale

Date of Examination:

MODELING, DESIGNING AND FABRICATION OF DC – DC CONVERTER

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Pranali Mhaiskar

Snehal Kurhade

Snehal Thengane

Sonali Mate

Vaishnavi Wanmali

Under the guidance of

Prof. R. N. NAGPURE



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur)

NAGPUR 441 110

2018 – 2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**MODELING, DESIGNING AND FABRICATION OF DC – DC CONVERTER**” has been successfully completed by

Pranali Mhaiskar

Sonali Mate

Snehal Kurhade

Vaishnavi Wanmali

Snehal Thengane

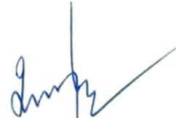
under the guidance of **Prof. R. N. Nagpure** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.



Prof. R. N. Nagpure
(Project Guide)



Prof. U. V. Waghmare
(Project Coordinator)




Dr. B. Y. Bagde
(HOD, Electrical Dept.)

Signature of External Examiner:

Name:

Date of Examination:


Prof. Ganesan Gadge
06th May 2019.

SOME DESIGN ASPECTS OF DC-DC CONVERTER

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

Harshada M. Wath

Sanika V. Turang

Hrushikesh D. Sahare

Aashutosh D. Thakre

Nikhil A. Shanware

Shivam H. Talkhande

Under the guidance of

Dr. P. M. Meshram

Co-guide

Mr. V. R. Waghmare



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**SOME DESIGN ASPECTS OF DC-DC CONVERTER**” has been successfully completed by

Harshada M. Wath

Sanika V. Turang

Hrushikesh D. Sahare

Aashutosh D. Thakre

Nikhil A. Shanware

Shivam H. Talkhande

in recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**, Nagpur.



Dr. P. M. Meshram
(Project Guide)



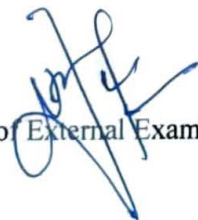
Mr. V. R. Waghmare
(Project Co-Guide)



Mrs. U. V. Waghmare (Umre)
(Project Coordinator)



Mr. B. Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner:

Name:

Date of Examination:

**OPTIMIZATION OF POWER CONSUMPTION IN ROLLING MILLS &
STANDARDISATION OF INSTRUMENTS AS PER PERFORMANCE AND
APPLICATION**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Aniket Rokade

Bhavesh Salve

Kshitij Tikle

Ranjeetkumar Rahangdale

Tanjil Sheikh

Under the guidance of

Prof. P. S. Shete

(Assistant Professor, YCCE)

&

Mr. J.H. Nigam

(Senior Manager, JSW Steel Ltd.)



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

i

CERTIFICATE OF APPROVAL

Certified that the project report entitled “OPTIMIZATION OF POWER CONSUMPTION IN ROLLING MILLS & STANDARDISATION OF INSTRUMENTS AS PER PERFORMANCE AND APPLICATION” has been successfully completed by

Aniket Rokade

Bhavesh Salve

Kshitij Tikle

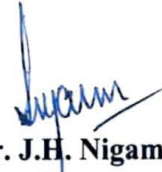
Ranjeetkumar Rahangdale

Tanjil Sheikh

in recognition to the partial fulfillment for the award of the degree of Bachelor in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.**



Prof. P.S. Shete
(Project Guide)



Mr. J.H. Nigam
(Project Guide)



Prof. P.B. Joshi
(Special-Term In charge)



Dr. B. Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner:

Name: **S. D. Abhyankar**

Date of Examination: **6.05.2018**

**UPGRADATION OF MONORAIL CARRIER SYSTEM IN
INDO RAMA SYNTHETICS INDIA LTD.**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University)*

In partial fulfillment of the requirement

For the award of the degree

of

Bachelor of Engineering in Electrical Engineering

By

Durgesh Shende

Nayan Chavhan

Under the guidance of

Prof. V R Doifode

Mr. Sunil Kale



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

**(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur)**

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “UPGRADATION MONORAIL CARRIER SYSTEM IN INDO RAMA SYNTHETICS (INDIA) LTD” has been successfully completed by **Durgesh Shende** and **Nayan Chavhan** under the guidance of **Prof. V R Doifode** in recognition to the partial fulfillment for the award of the degree of **Bachelor of Engineering in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**



Prof. V R Doifode
(Guide-EL Dept.)



Mr. Sunil Kale
(Co-Guide from INDO RAMA)

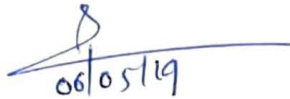


Prof. P B Joshi
(Project Co-ordinator Special term)



Dr. B Y Bagde
(HOD EL Dept)

Signature of External Examiner
Name:-
Date of Examination:



06/05/19

MICROCONTROLLER BASED AUTOMATED CONCENTRATING SOLAR COLLECTOR FOR PHOTOVOLTAIC APPLICATION

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

in partial fulfillment of the requirement

for the award of the degree

of

Bachelor of Engineering in Electrical Engineering

by

Shubham Mandawkar

Shubham Zalke

Nishant Kumar

Sagar Rahangdale

Taresh Satikosare

under the guidance of

Prof. A.P. Munshi



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur

University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**MICROCONTROLLER BASED
AUTOMATED CONCENTRATING SOLAR COLLECTOR FOR
PHOTOVOLTAIC APPLICATION**” has been successfully completed by

Shubham Mandawkar

Shubham Zalke

Nishant Kumar

Sagar Rahangdale

Taresh Satikosare

in recognition to the partial fulfillment for the award of the degree of Bachelor in
Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An
Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University), Nagpur.**

Prof. U.V. Waghmare (Umare)
(Project Coordinator)

Dr. B.Y. Bagde
(HOD, EL Dept.)

Prof. A.P. Munshi
(Project Guide)

Signature of External Examiner:

Name:

P. M. Tamarkar

Date of Examination:

06/05/19

PERFORMANCE OF DC ELECTRIC SPRING IN DC MICROGRID

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Angad Rakshak

Divyani Dhanvijay

Rupal Wagde

Ashwin Panchbuddhe

Ritesh Khobragade

Sujitkumar Hujare

Under the guidance of

Dr. S. P. Gawande



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

**STUDY AND IMPLEMENTATION OF Z-SOURCE
INVERTER BASED SOLAR PV SYSTEM FOR
MOTORING APPLICATIONS WITH HARDWARE
IMPLEMENTATION**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

AKSHAY DAMKE

YUGANTAR FISKE

ANKET AWACHAT

SARANG KHAPNE

AJINKYA NAGRARE

GOVIND NAVGHARE

RAGHAVENDRA TIWARI

Under the guidance of

Prof. A. P. MUNSHI



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "STUDY AND IMPLEMENTATION OF Z-SOURCE INVERTER BASED PV SYSTEM FOR MOTORING APPLICATIONS WITH HARDWARE IMPLEMENTATION" has been successfully completed by Akshay Damke, Yugantar Fiske, Anket Awachat, Sarang Khapne, Ajinkya Nagrare, Govind Navghare, Raghavendra Tiwari under the guidance of Prof. A.P MUNSHI in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).

Mrs. U.V. Waghmare (Umre)
(Project Co-ordinator)

Prof. A.P. Munshi
(Project Guide)

Dr. B. Y. Bagde
(HOD, EL Dept.)

Signature of External Examiner :

Name : Prof Ganson Gadge ; St. Vincent Pallotti , Nagpur

Date of Examination : 06/05/2019 ,

DESIGN, ANALYSIS AND FABRICATION OF HEXAPOD ROBOT

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Pawan Bonde

Jayesh Mandhaniya

Niranjan Dayal

Soham Lakhe

Anup Kurve

Anurag Raut

under the guidance of

Prof. Mrs. S.S. Kewte(Rewatkar)

Under the co guidance of

Prof. N.A. Pande



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated To Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR – 441110

(2018-2019)

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**DESIGN, ANALYSIS AND FABRICATION OF HEXAPOD ROBOT**” has been successfully completed by

Pawan Bonde

Jayesh Mandhaniya

Niranjan Dayal

Soham Lakhe

Anup Kurve

Anurag Raut

under the guidance of

Prof. Mrs. S.S.Kewte (Rewatkar)

in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**.



Prof. N.A.Pande

(Co-Guide,ETC Dept.)



Prof. Mrs.S.S.Kewte (Rewatkar)

(Guide,ELDept.)



Prof. U. V. Waghmare (Umre)

(Project Co-ordinator)



Dr.B. Y. Bagde

(HoD, EL Dept.)



Signature of External Examiner

Name: **Dr. P. D. Debnar**

Date of Examination: **6/5**

ADVANCED SAFETY AND SECURITY OF HOME

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

in partial fulfillment of the requirement

for the award of the degree

of

Bachelor of Engineering in Electrical Engineering

By

Aditya D. Nimsarkar

Amey R. Patil

Saurabh B. Thote

Atul S. Patil

Shatul S. Shewade

Nikhilesh N. Shrirao

Navjot Koreti

under the guidance of

Prof. B.S. Sudame



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

AUTOMATIC SOLAR TRACKING SYSTEM

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Onkar Khati

Piyush Lade

Sumedh Janbandhu

Ashish Patne

Shubham Shinde

Ankit Kumar

Gaurav Buwade

Under the guidance of

PROF.ROHAN KHONDE



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

It is hereby certified that the project report entitled "AUTOMATIC SOLAR TRACKING SYSTEM" has been successfully completed by

Onkar Khati

Sumedh Janbandhu

Shubham Shinde

Piyush Lade

Ashish Patne

Ankit Kumar

Gaurav Buwade

In recognition to the partial fulfilment for the award of the degree of Bachelor in electrical engineering **YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING** (*An Autonomous Institution Affiliated to Rashtrashant Tukadoji Maharaj Nagpur University*)



Prof.U.V.Waghmare(Umre)
(Project Coordinator)



Prof.Rohan Khonde
(Guide)

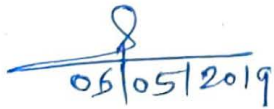


Dr. B.Y.Bagde
(HOD, EL Dept.)

Signature of External

Examiner Name

Date of Examination:


05/05/2019

Rahul D. Jawale

SMART IRRIGATION MONITORING AND CONTROLLING SYSTEM

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

in partial fulfillment of the requirement

for the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Akash J. Bhati

Avirat C. Patil

Harshad N. Itankar

Kaustubh D. Satkar

Prajwal S. Wadafale

Rajat B. Pathrabe

Samrat R. Thuse

Vaibhav D. Gawande

Under the guidance of

Mrs. Xma R. Pote

&

Under the co-guidance of

Prof. M. B. Gaikwad



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR-441110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Smart Irrigation Monitoring and Controlling System" has been successfully completed by

Akash J. Bhati

Avirat C. Patil

Harshad N. Itankar

Kaustubh D. Satkar

Prajwal S. Wadafale

Rajat B. Pathrabe

Samrat R. Thuse

Vaibhav D. Gawande

under the guidance of **Mrs. Xma R. Pote** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University), Nagpur**



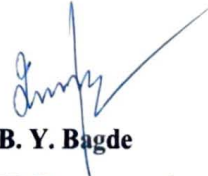
Prof. M. B. Gaikwad
(Co-Guide)
(EL Engg, RCOEM)



Mrs. Xma R. Pote
(Project Guide)



Mrs. U. V. Waghmare (Umre)
(Project Coordinator)



Dr. B. Y. Bagde
(HoD EL Department)



Signature of External Examiner

Name:

Date of Examination:

Design Advance Utility Box Using Peltier Plates

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

by

Adarsh Singh

Parul Patle

Prashant Gondule

Shivani Meshram

Shubham Ramteke

Vibha Tembhare

Under the guidance of

Prof. P. S. Patil

Co-guided by

Er. Vishal Pahune

Manager, GMR Warora Energy Ltd



DEPARTMENT OF Electrical Engineering

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Design Advance Utility Box Using Peltier Plates" has been successfully completed by

Adarsh Singh

Shivani Meshram

Prashant Gondule

Shubham Ramteke

Parul Patle

Vibha Tembhare

under the guidance of Prof P.S.Patil in recognition to the partial fulfillment for the award of the degree of Bachelor in Technology in Electrical Engineering, **Yeshwantrao Chavan College of Engineering** (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*)

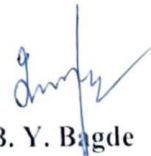


Prof. P. S. Patil
(Project Guide)

Er. Vishal Pahune
Manager,
GMR Warora Energy Ltd
(Project Co-guide)



Prof. U. V. Waghmare (Umre)
(Project Coordinator)

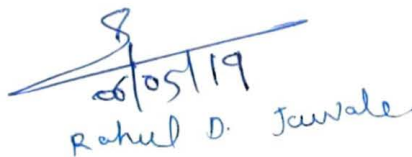


Dr B. Y. Bagde
(HOD, EL Dept)

Signature of External Examiner

Name

Date of Examination


06/05/19
Rahul D. Jawale

THE AUTOMATIC POWER FACTOR CONTROL USING ARDUINO UNO

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Saurabh Sharma

Abhimanyu Kankhar

Datta Madavi

Jayant Chavan

Rakshanda Thote

Karishma Rade

Sharaddha Kuparne

Under the guidance of

PROF.S.L.TIWARI



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

TOTAL PRODUCTIVE MAINTENANCE (TPM), ENERGY CONSERVATION AND ENERGY MANAGEMENT SYSTEM

(TAL Manufacturing Solution Limited, SEZ MIHAN, Nagpur)

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in *Electrical Engineering*

By

Akash M. Titirmare
Dhanshri S. Balapure
Kunal V. Nimje
Kisan R. Mesare

Mrunali V. Tarale
Pranjali G. Bhute
Swati A. Thakur
Swati U. Iwarkar

Tejaswi S. Chandekar

Under the guidance of

Prof. P.B. Joshi (Guide)

&

Mr. T.M. Manjunath (Co-guide)



Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “TOTAL PRODUCTIVE MAINTENANCE, ENERGY CONSERVATION AND MANAGEMENT SYSTEM” has been successfully completed by

Pranjali Bhute

Akash Titirmare

Kisan Mesare

Kunal Nimje

Mrunali Tarale

Dhanshri Balapure

Swati Thakur

Swati Iwarkar

Tejaswi Chandekar

In recognition of partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING** (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.



Prof. P.B. Joshi
(Project Guide)



Mr. T. M. Manjunath
(Co-Guide)



Prof. P.B. Joshi
(Special Term Incharge)



Dr. B.Y. Bagde
(HOD-ELDept.)

Signature of External Examiner :-

Name :- **Mr. Yogesh Varadpande.**

Date of Examination :- **06-05-2019**

Harnessing Maximum Energy from Biowastes and Production of Biogas

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Electrical Engineering

By

Akanksha Yawalkar

Ankita Padole

Anuja Hore

Karishma Dighore

Swati Kodape

Vaishnavi Mawale

Under the guidance of

Dr. Mrs. S. P. Adhau



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**HARNESSING MAXIMUM ENERGY FROM BIOWASTES AND PRODUCTION OF BIOGAS**” has been successfully completed by

Akanksha Yawalkar (EL)

Ankita Padole (EL)

Anuja Hore (EL)

Karishma Dighore (EL)

Swati Kodape (EL)

Vaishnavi Mawale (EL)

under the guidance of **Dr. Mrs. S. P. Adhau** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electrical Engineering, **Yeshwantrao Chavan College of Engineering**

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



Signature of Co-Guide
Dr. Mrs. Sarita Mowade
(Director, SS Techno-vision & Eco-solution)



Signature of Guide
Dr. Mrs. S. P. Adhau
(Asso.Prof. EL Dept.)



Signature
Prof. Mrs. U. V. Waghmare (Umre)
(Project Co-ordinator)



Signature
Dr. B. Y. Bagde
(HOD, EL Dept.)

Signature of External Examiner

Name **P. M. Torawalkar**

Date of Examination:



06/05/19

SOME INVESTIGATIONS ON DC MICROGRID USING DC ELECTRIC SPRING WITH STORAGE SYSTEM CONFIGURATION

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in Integrated Power System

by

Kalyani E. Dhawad

Under the guidance of

Dr. S. P. Gawande



DEPARTMENT OF ELECTRICAL ENGINEERING

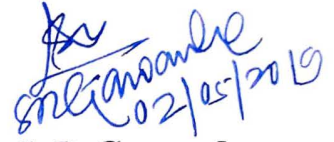
Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "SOME INVESTIGATIONS ON DC MICROGRID USING DC ELECTRIC SPRING WITH STORAGE SYSTEM CONFIGURATION" has been successfully completed by, **Kalyani E. Dhawad** in recognition to the partial fulfillment for the award of the degree of **Master of Technology in Integrated Power Systems, Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.**


02/05/2019

Dr. S. P. Gawande
(Project Guide)



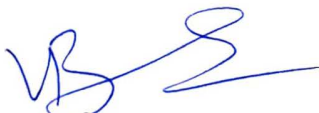
Prof. U. V. Waghmare
(Project Coordinator)



Prof. A. Y. Fadnis
(M.Tech Coordinator)



Dr. B.Y. Bagde
(HoD, Electrical Dept.)



Signature of External Examiner:

Name: **V B Borghale**

Date of Examination: **04/05/2019**

CONTROL OF CASCADED H-BRIDGE MULTILEVEL INVERTER WITH UNEQUAL INPUT VOLTAGES

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in Integrated Power System

by

Alviya Mahevash

Under the guidance of

Dr. S. G. Kadwane



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report titled "**CONTROL OF CASCADED H-BRIDGE MULTILEVEL INVERTER**" has been successfully completed by **Alviya Mahevash** under the guidance of **Dr S. G. Kadwane** in recognition to the partial fulfillment for the award of the degree of **Master of Technology in Integrated Power System, Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.**



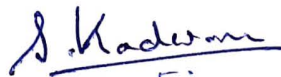
Prof. U. V. Waghmare
(Project Coordinator)



Prof. A. Y. Fadnis
(M. Tech Coordinator)



Dr. B. Y. Bagde
(Head Of Department)



Dr. S. G. Kadwane
(Project Guide)


Signature of External Examiner :

Name : *M. M. Reng*

Date of Examination : *04/05/2019*

PV-ECS INTEGRATED TO DISTRIBUTION GRID FOR ACTIVE POWER TRANSFER AND POWER QUALITY IMPROVEMENT

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

for the award of the degree of

Master of Technology in Integrated Power System

by

Ms. Yashashri B. Deshmukh

under the guidance of

Dr. Sarala P. Adhau



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report titled "PV-ECS Integrated to Distribution Grid for Active Power Transfer and Power Quality Improvement" has been successfully completed by Yashashri B. Deshmukh in recognition to the partial fulfillment for the award of the degree of Master of Technology in Integrated Power System, Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.

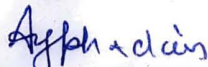


Dr. S.P. Adhau

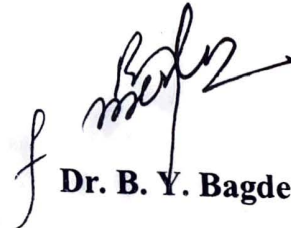
(Guide)



Prof. U.V. Waghmare
(Project coordinator)



Prof. A. Y. Fadnis
(M.tech Coord.)



Dr. B. Y. Bagde
(HOD, EL Dept.)



Signature of External Examiner:

Name: **P. S. Kulkarni**

Date of Examination:

ASSESSMENT OF AVAILABLE TRANSFER CAPABILITY IN ELECTRICITY MARKET

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in Integrated Power System

by

Poonam A. Shende

Under the guidance of

Dr. B. Y. Bagde



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report titled "ASSESSMENT OF AVAILABLE TRANSFER CAPABILITY IN ELECTRICITY MARKET" has been successfully completed by **Poonam A. Shende** under the guidance of **Dr B. Y. Bagde** in recognition to the partial fulfillment for the award of the degree of **Master of Technology in Integrated Power System, Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.**



Prof. U. V. Waghmare
(Project Coordinator)



Prof. A. Y. Fadnis
(M. Tech Coordinator)



Dr. B. Y. Bagde
(Project Guide and HOD)

Signature of External Examiner :

Name :

Date of Examination :



Dr. B. S. Umre
4.5.19

A MPPT DESIGN USING WODE TECHNIQUE FOR PARTIALLY SHADED SOLAR PV SYSTEM

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement

For the award of the degree

of

Master of Technology in Integrated Power System

by

Ruchita S. Chaudhari

Under the guidance of

Dr. R. M. Moharil



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report titled "A MPPT DESIGN USING WODE TECHNIQUE FOR PARTIALLY SHADED SOLAR PV SYSTEM" has been successfully completed by **Ruchita S. Chaudhari** under the guidance of **Dr. R. M. Moharil** in recognition to the partial fulfillment for the award of the degree of **Master of Technology in Integrated Power System**, Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**, Nagpur.

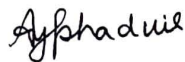


Dr. R. M. Moharil

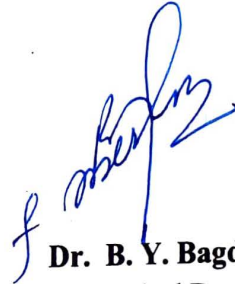
(Project Guide)



Prof. U. V. Waghmare
(Project Co-ordinator)



Prof. A. Y. Fadnis
(M.Tech Co-ordinator)



Dr. B. Y. Bagde
(HOD, Electrical Dept.)



Signature of External Examiner:

Name: **P. S. Kulkarni**

Date of Examination: **04/05/19**

DESIGN OF ENHANCED RESONANT CURRENT CONTROLLER FOR GRID-TIED CONVERTER WITH LCL FILTER

This project report is submitted to
Yeshwantrao Chavan College of Engineering, Nagpur
(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

*In partial fulfillment of the requirement
For the award of the degree*

of

Master of Technology in Integrated Power Systems

by

Niyati S. Jaulkar

Under the guidance of

Dr. P. M. Meshram



DEPARTMENT OF ELECTRICAL ENGINEERING
Nagar Yuwak Shikhan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
NAGPUR-441110
2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**DESIGN OF ENHANCED RESONANT CURRENT CONTROLLER FOR GRID-TIED INVERTER WITH LCL FILTER**” has been successfully completed by **NIYATI S. JAULKAR** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Integrated Power Systems, Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**, Nagpur.



Dr. P. M. Meshram

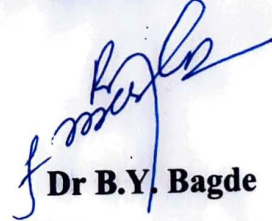
(Project-Guide)



Prof. U.V. Waghmare
(Project Coordinator)



A.Y. Fadnis
(M-Tech Coordinator)



Dr B.Y. Bagde
(HOD, EL Dept.)


Signature of External Examiner:

Name: *M-M-Bagde*

Date of Examination: *04/05/2019*

SHUNT FAULTS ANALYSIS OF SOLAR PV-BASED AC STANDALONE SYSTEM

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement
For the award of the degree

Of
Master of Technology in Integrated Power System

By

Rinkesh G. Satpute

Under the guidance of

Prof. P. S. Shete



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled "SHUNT FAULTS ANALYSIS OF SOLAR PV-BASED AC STANDALONE SYSTEM" has been successfully completed by **Rinkesh G. Satpute** under the guidance of **Prof. P. S. Shete** in recognition to the partial fulfillment for the award of the degree of **Master of Technology in Integrated Power System**, Electrical Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



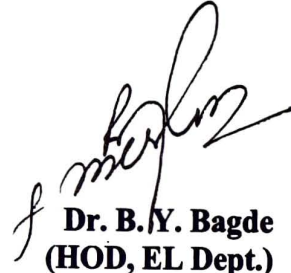
Prof. P. S. Shete
(Project Guide)



Prof. U. V. Waghmare
(Project Co-ordinator)



Prof. A. Y. Fadnis
(M. Tech. (IPS) Co-ordinator)



Dr. B. Y. Bagde
(HOD, EL Dept.)

Signature of External Examiner: -

Name: -

Date of Examination: -



Dr. B. S. Umre

4.5.19

**SOME IMPROVEMENTS IN PHASE SHIFTED PWM FOR FLYING
CAPACITOR MULTILEVEL CONVERTER**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

in partial fulfillment of the requirement

for the award of the degree

of

Master of Technology in Integrated Power System

by

Netra Manwatkar

under the guidance of

Prof. Avantika Y. Fadnis



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2018-2019

CERTIFICATE OF APPROVAL

Certified that the project report titled "**SOME IMPROVEMENTS IN PHASE SHIFTED PWM FOR FLYING CAPACITOR MULTILEVEL CONVERTER**" has been successfully completed by **Netra A. Manwatkar** in recognition to the partial fulfillment for the award of the degree of **Master of Technology in Integrated Power System, Electrical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University), Nagpur.**



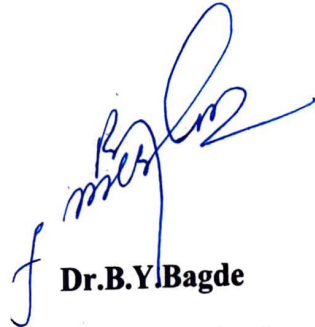
Prof. A. Y. Fadnis

(Guide and M. Tech Coordinator)



Prof. U. V. Waghmare

(Project Co-ordinator)



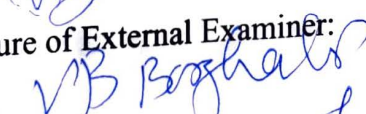
Dr. B. Y. Bagde

(HOD Electrical Engineering)

Signature of External Examiner:

Name:

Date of Examination:


04/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**Printing Defect Identification using Image Processing**” has been successfully completed by **ADESH LAD, AJINKYA MISHRIKOTKAR, MANDAR KHARODE, KAUSTUBH THAKRE** under the guidance of **Dr. M. M. MUSHRIF** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**




Signature

Dr.M. M. MUSHRIF
(GUIDE)



Signature

Dr.M.S.Narlawar
(HOD,ET DEPT)

Signature of External Examiner: 
Name:
Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IOT based smart home" has been successfully completed by **Bhushan Dhangar, Ramprasad Bhosle, Vikky Ghate, Vishal Ugemuge** under the guidance of **Prof. R. P. Deshmukh** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**




Signature

Prof. R. P. Deshmukh
(Guide)



Signature

Dr. M. S. Narlawar
(HOD,ET Dept.)



Signature of External Examiner

Name: **M.S. Panchbude**

Date of Examination: **3/05/19**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Non-Contact Based Baby Monitoring System" has been successfully completed by **Ankita Kawale, Indrayani Deshmukh, Monika Hakande, Payal Raut** under the guidance of **Dr. Y. U. Chitriv (Dubey)** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**

Dr. Y. U. Chitriv (Dubey)

(Guide)

Dr. Sachin Damke

(Co Guide)

Dr. M. S. Narlawar

Dr. M.S. NARLAWAR
Head of Department
Electronics & Telecommunication Engg.
(Head of the Dept.)

Signature of External Examiner:

Name:- Dr. Vibha Bora

Date of Examination: 03/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**Wireless Equipment Control Using MATLAB Based GUI System**” full has been successfully completed by Kajal Bankar, Mrunal Deodhe, Samiksha Borkar, Shreya Thamke under the guidance of Prof. **Dr. P. W. Raut** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering.** (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Prof. Dr. P. W. Raut
(Guide)



Dr. M. S. Narlawar
(HOD, ET Dept.)



Signature of External Examiner

Name:-

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Image Processing Based Automatic Quad-Copter Pesticide Sprayer" has been successfully completed by Arpita Singh, Jayesh Thakre, Jidhnyasa Khondey, Saurabh Somani, **Dr. Mrs. A.D Belsare** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in **Electronics and Telecommunication Engineering**, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Signature

A.D. Belsare
02/05/19

Dr. Mrs. A.D Belsare

(Project Guide)

Signature

Nandkishor Lavhe
02/05/19

Prof. Nandkishor Lavhe

ASSISTANT PROFESSOR
Entomology Section
College of Agriculture, Nagpur.

Dept of Entomology,

Dr. Panjabrao Deshmukh Krishi Vidyapeeth,

Nagpur

(Project Co-guide)

Signature

M.S. Narlawar

Dr. M.S. Narlawar

(HOD, ET Dept.)

Signature of External Examiner:

A.R. Kondekar

Name: Dr. A. R. Kondekar

Date of Examination: 2/5/2019

CERTIFICATE OF APPROVAL

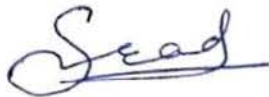
This is Certified that the project report entitled "Sign Language to speech translator" has been successfully completed by **Bhushan Chimurkar, Darpan Agade, Krushna Sawne, Namrata Gondane, Nupur Shrivastva, Prof C.S. Gode** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in **Electronics and Telecommunication Engineering**, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



Signature
Prof. C.S.Gode
(Guide)



Signature
Mr. M.S. Narlawar
(HOD, ET Dept.)



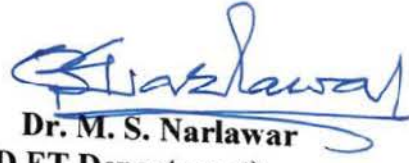
Signature of External Examiner:
Dr. (Mrs.) S.W. Vazade

CERTIFICATE OF APPROVAL

Certified that the project report entitled "**Multiband MIMO Antenna For Wireless Application**" has been successfully completed by **Divyani Rane Samiksha Gawali Samiksha Fulzele Akanksha Sancheti** under the guidance of **Dr.S.S.Khade** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electronics And TeleCommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Dr. S. S. Khade
(Guide)



Dr. M. S. Narlawar
(H.O.D ET Department)



Signature of External Examiner:

Name: **Dr. V. G. Girhepunje**

Date of Examination: **02/05/2019**

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Smart Luggage Carrier" has been successfully completed by **Abhiruchi Zope, Kirti Bodkhe, Manisha Kolhare, Pratiksha Helonde** under the guidance of **Prof M. L. Keote** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering** (An Autonomous Institution Affiliated to *Rashttrasant Tukdoji Maharaj Nagpur University*)



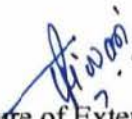
Prof. M. L. Keote

(Guide)



Dr, M. S. Narlawar

(HoD, ET Dept.)



Signature of External Examiner

Name:-

Date of Examination:

CERTIFICATE OF APPROVAL

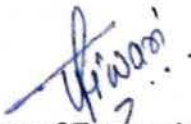
Certified that the project report entitled "COIN BASED WATER DISPENSING SYSTEM USING IMAGE PROCESSING" has been successfully completed by GAURI DHOTE, SHRADDHA TIJARE, SHRUTIKA GOMASE, VAISHNAVI PAIKANE under the guidance of Prof. **M.L.KEOTE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature
Prof. M.L.KEOTE



Signature
(HoD, ET Dept.)




Signature of External Examiner


Name:-


Date of Examination: 02/05/2019

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**Measure the parameters of electric motor using wireless smart meter** ” has been successfully completed by **KSHITIJA DHOKNE, PAYAL PARATE, DHIRAJ SONI, SUDHIR WANODE** under the guidance of **Prof. B. Y. MASRAM** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**


Prof. B. Y. Masram
(Guide ET Dept)


Prof. P. S. Shete
(Guide EL Dept.)
(An Interdisciplinary project
with Dept. of Electrical
Engineering)


Dr. M. S. Narlawar
(HoD, ET Dept)


Signature of External Examiner

Name: -

Date of Examination: 02/05/19

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Automated Waste Segregation System and its approach towards generation of Ethanol" has been successfully completed by Vaishnav Dahake, Sanket Puradbhat, Vaishnavi Hirlekar, Shriya Gadhawe under the guidance of **Dr. Pravin Raut and Prof. Abhishek Madankar** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Prof. Abhishek Madankar



Signature

(HoD, ET Dept.)

Dr. Milind Narlawar

Signature



Dr. Pravin Raut



Signature of External Examiner

Name:-

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Mobile Health Monitoring System Using IOT" has been successfully completed by **Aayushi Kurode, Manish Kshetrapal, Shruti Mendhule, Sunil Admane** under the guidance of **Prof. Yogesh S. Kale** Sir in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics and Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering** (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



Signature

Prof. Yogesh S. Kale Sir

(Guide)



Signature

Dr. M.S. Narlawar Sir

(HOD, ET Dept.)



Signature of External Examiner:

Name:

Date of Examination:

Date of Examination:

CERTIFICATE OF APPROVAL

Certified that the project report entitled “ **Portable Fuel Adulteration Detection System**” has been successfully completed by **Sandeep Mehtri, Krunal Ramteke, Praful Fulzele, Sourabh Bargi** under the guidance of **Dr. Y. K. Dubey (Chitriv) / Prof. M. S. Patil** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**

(Guide)

Dr. Y. K. Dubey (Chitriv) / Prof. M. S. Patil

(HoD, ET Dept.)

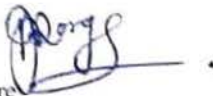
Dr. M. S. Narlawar

Signature of External Examiner
Name:-
Date of Examination:

Some graphs need to be validated
25/5/19
AK

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DAM SAFETY AND WATER MANAGEMENT USING INTERNET OF THINGS" has been successfully completed by **Kishor Chillewad, Rushikesh Raut, Vishal Gore, Vaibhav Mangar** under the guidance of **Dr. P. D. Dorge** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature

Name: Dr. P. D. Dorge

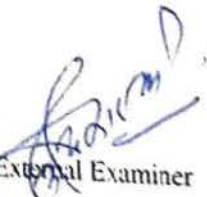
(Guide)



Signature

Name: Dr. M. S. Nariawar

(H.O.D. ET Dept.)



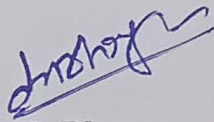
Signature of External Examiner

Name:- **Dr. P. K. Rajare**

Date of Examination:

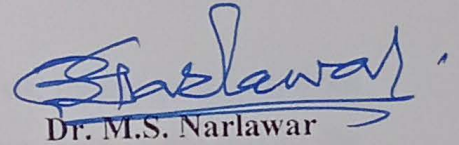
CERTIFICATE OF APPROVAL

Certified that the project report entitled “Design and Implementaion of AES on FPGA for Security of IOT Data” has been successfully completed by Shelly R. Wankhede under the guidance of Dr. D.B. Bhoyar and in recognition to the partial fulfilment for the award of the degree of Master of Technology in Communication Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



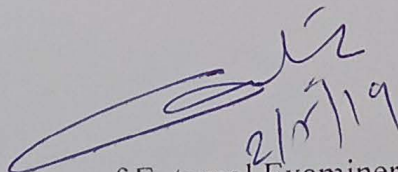
Dr. D.B. Bhoyar

(Guide)



Dr. M.S. Narlawar

(H.O.D ET Department)



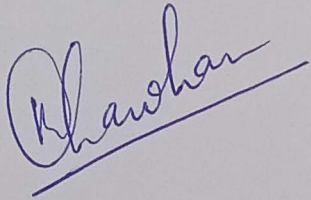
Signature of External Examiner:

Name:

Date of Examination

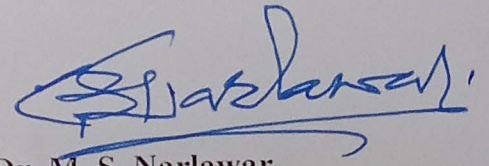
CERTIFICATE OF APPROVAL

Certified that the project report entitled “High Security Data Efficient Routing for MANET” has been successfully completed by Mr. Swapnil S. Bhalsagar under the guidance of **Dr. M. D. Chawhan** of in recognition to the partial fulfillment for the award of the degree of Master of Technology in Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.



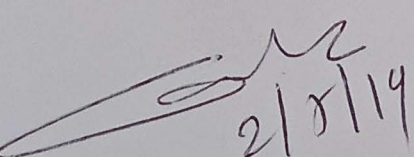
Dr. M. D. Chawhan

(Guide)



Dr. M. S. Narlawar

(HOD, ET Dept.)



Signature of External Examiner:

Name:

Date of Examination:

Dr. G. M. Astlekar



Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

NAAC Accredited with 'A' Grade

Ph.: 07104-242919, 242623, 242588

Website : www.ycce.edu E-mail : principal@ycce.edu

Declaration by Head of Institute

I hereby declared that the data, information and support documents attached herewith are genuine and correct to my knowledge.



Dr. U. P. Waghe
(Principal)

Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road,
NAGPUR - 441110