

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 3.1.2

The institution provides seed money to its teachers for research:

3.1.2. 1 Seed money provided by the institution to its teachers for

research during the year (INR in lakhs):

2022-2023 Year

(INR In Lacks) 15.03

Supporting Documents

1.Sanction Letters of the seed money for the Proposal

2.Project Documents



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

Index-3.1.2

2023-24

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	Money for the Proposal	
2.	Project Documents	58-165

Sanction Letters of the Seed Money for the Proposal

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

R&D Cell, YCCE, Nagpur

Date: 5/6/2023

To, The Principal YCCE, Nagpur

Subject: Request for approval of budget for In-house funding schemes for 2023-24

Respected Sir,

This is for your kind information that, as every year, this year also we need to float In-house funding schemes. The schemes include 1. In-house Minor Research and Product Development, 2. Innovative UG/PG Project Scheme, 3. Innovative Experimental Setup scheme, 4. Innovative Minor Patentable Project scheme. Details of the proposed budget is as follows:

SN	Scheme	Budget in Lakhs
1	In-house Minor Research and Product Development	7.00
2	Innovative UG/PG Project Scheme	2.00
3	Innovative Experimental Setup scheme	3.00
4	Innovative Minor Patentable Project scheme	3.00
Total		15.00

It is requested that the budget proposed In-house funding schemes for 2023-24 of Rs. 15 Lakhs may please be approved.

Mary be approved Principal Chines Advison, MGS

Dr. Ujwalla Gawande

april Dr. U.P.Waghe

Dean R & D

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Yeshwantrao Chavan College of Engineering

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Office of Dean-Research and Development

Date: 05 Sep 2023

Minutes of Meeting

A review meeting was conducted in Board Room, YCCE at 11.30 AM on 02 September 2023 for review of proposals submitted under following scheme for possible seed funding.

- 1. Innovative Experiment Set up
- 2. Innovative Minor Patentable Product/Project
- 3. Minor Research and Product Development
- 4. Innovative UG/PG Project

The following committee members reviewed the proposal

- 1. Dr. U. H. Gawande, Dean, R and D
- 2. Dr. P. T. Karule, EE, Department
- 3. Dr. K. K. Bhoyar, CSE Department
- 4. Dr. S. R. Khandeshwar, CE Department
- 5. Dr. C. S. Gode, ET, Department
- 6. Dr. S. D. Patil, EL Department
- 7. Dr. S. T. Bagde, ME Department
- 8. Dr. V. Y. Ganvir, Physics Department
- 9. Dr. Y. U. Chitriv, Asst. Dean, FPD, R and D
- 10. Dr. N. D. Rehpade, Asst. Dean, IPRD, R and D



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Office of Dean-Research and Development

Following are the remarks of the review committee for the recommendation of the proposal

submitted under Innovative Experimental Setup Scheme

SN	Name of Faculty	Dept	Title of the Proposal	Amount Approved	Remarks by Committee
1.	Dr. Prachi P. Palsodkar	EE	Development of next generation intelligent device solutions with embedded Machine Learning	9,887/-	Recommended
2.	Dr. Bharati N. Patil	Physics	To find the wavelength of laser using a thin wire of unknown thickness	20,000/-	Recommended
3.	Mrs. Trupti D. Tembhakar	EL			Absent
4.	Mrs. Trupti D. Tembhakar	EL			Absent
5.	Sanjivini Panditkar	Applied Chemistry			Absent



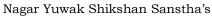
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Office of Dean-Research and Development

Following are the remarks of the review committee for the recommendation of the proposal

submitted under Innovative Minor Patentable and Product Development Scheme

SN	Name of Faculty	Dept.	Title of the Proposal	Amount Sanctioned	Remarks by Committee
1.	Mrs. Nivedita A. Pande	ETC	Automatic Robotic Cleaner	16,019/-	Recommended
2.	Mr. Abhishek A. Madankar	ETC	Detection of Vata Dosha using Urine Sample	21,600/-	Recommended
3.	Mr. Devendra Shahare	ME	Multipurpose Medicine Carriers Container	30,000/-	Recommended
4.	Mr. Bhushan U. Bawankar	IT	Nadi Pariksha: Diseases Prediction System	16,500/-	Recommended
5.	Mr. Sagar W. Dhengare	CV	Development of Quaternary Concrete	30,000/-	 Shift to Minor Research & Product development Innovative idea for replacement of cement properties needs to be investigate for waste Recommended
6.	Mr. Sanjay P. Pande	СТ	Road Condition Monitoring System	-	Revise, Resubmit & Represent
7.	Mr. Sanjay P. Pande	СТ	Home Security System	-	Revise, Resubmit & Represent
8.	Mr. Roshan Bhanushe	СТ	Driver Drowsiness Detection System using Machine Learning	-	 Literature review is required to prove innovation idea Revise, Resubmit & Represent
9.	Mrs. Swati K. Mohod	EL	Refrigerant Based Air Cooler	-	 Add Innovative Component Revise and Resubmit and Represent
10.	Mr. Aniket Munshi	EL	Solar Based Running Zebra Crossing System	-	 Add Innovative Component Revise, Resubmit and Represent
11.	Mrs. Shweta L. Tiwari	EL	Solar Powered wireless Electric Vehicle G2V charging System	-	 Rejected Submit new idea and Represent
12.	Mr. Rohan Khonde	EL			Absent





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Office of Dean-Research and Development

Following are the remarks of the review committee for the recommendation of the proposal

submitted under Minor Research and Product Development Scheme

SN	Name of Faculty	Dept.	Title of the Proposal	Amount Sanctioned	Remarks by Committee
1.	Dr. Prasanna M. Palsodkar/ Dr. Prachi P. Palsodkar	EE	Edge Device based Audio synthesis for detection of cough intensity	25,000/-	Recommended
2.	Dr. Nischal P. Mungale	ME	Performance Investigation Of Solar Dryers For Agriculture Food Product And Green Hurbes	30,000/-	Recommended
3.	Mr. Chetan A. Mahatme	ME	A 3-D Printed Training Device for Medical Professionals for Simulating Effective Lumbar Puncture Procedure	10,000/-	Recommended
4.	Mr. Gopal H. Waghmare	ME	Design and Fabrication Of Reusable Functional And Effective Wrist Orthosis	25,000/-	Recommended
5.	Mr. Dilip I. Sangotra	ME	Fabrication and Analysis of Aqua Silencer	25,000/-	Recommended
6.	Mr. Surendra S. Nagpure	ME	Cloth Drying Machine	20,500/-	 Shift to Minor Patentable Product/Project Scheme Recommended
7.	Mr. Sanket G. Kalamkar	CE	Enhancing quality of Stormwater using Pervious Concrete and base layer of Agro- industrial Wastes Materials	20,000/-	Recommended
8.	Mrs. Minal S. Ghute	ET	Design of Drowning rescue alert system	14,000/-	• Shift to Innovative UG/ PG Project Scheme • Recommended



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9.	Mr. Dhiraj K. Thote	ET	Agriculture Robot using IoT	15,000/-	 Shift to Minor Patentable Product/Project Scheme Recommended
10.	Mr. Yogesh S. Kale	ET	Integrating Environmental Sensors using LORA Technology for Industrial Applications	-	Shift to Innovative Minor Patentable Product/ Project Development Revise the proposal for short range and resubmit
11.	Mr. Vaibhav R. Doifode	EL	Pumpless Cooler	-	Shift to Innovative UG/ PG Project Scheme Revise the budget and resubmit
12.	Ms. Kavita Gudadhe	IT			Absent





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Nagai Yuwak Shikahan Sanatha'a Yeshwantrao Chavan College of Engineering

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Research and Development Cell



Nagar Yuwak Shikshan Sanstha's

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Office of Dean-Research and Development

Following are the remarks of the review committee for the recommendation of the proposal submitted under Innovative UG/PG Project Scheme

	SN	Name of Faculty	Department	Title of the Proposal	Amount Requested	Remarks by Committee
	1.	Dr. Tejaswini Panse	EE	Water Quality Assessment and Monitoring System	19,000/-	Recommended
2	2.	Mr. Vijay G. Thakre	ME	Design and Fabrication of Weeding Robot for Agriculture Application	25,000/-	Not Recommended
3.		Mr. Nilesh U. Sambhe	СТ	Voice Over Internet Protocol (VoIP) based IPBX system design	25,000/-	 Shift to Innovative Experimental Setup Recommended
4.		Mr. Jiwan N. Dehankar	CSE	Food Cold Storage Monitoring and Analysis System	-	 Need to clear the ownership of the project and IPR Issue Revise, Resubmit and Represents
5.		Dr. Boskey Bahoria	CV			Absent
5.		Ms. Divya Kantodę	IT			Absent

It is therefore requested to approve the amount mentioned above under In-house schemes of MGI.

14/21 05/09/2023

Dr. Yogita Chitriv Assistant Dean, FPD, R and D

Dr. Nita Rehpade Assistant Dean, IPR, R and D

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Office of Dean-Research and Development

Forwarded for approval

Through,

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05/09/2023

Dr. Ujwala Gawande Dean, R and D

Dr. U. P. Waghe Principal, YCCE Encl.

1. Approval of budget for In- house funding schemes



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Office of Dean-Research and Development

Minutes of the Meeting

Date: 25 Sep 2023

A review meeting is conducted in Board Room, YCCE at 10.30 AM on 23 September 2023 for

review of proposal submitted by faculty under following schemes for possible seed funding.

- 1. Innovative Experiment Set up
- 2. Innovative Minor Patentable Product
- 3. Minor Research and Product Development
- 4. Innovative UG/PG Project

The following committee members reviewed the proposal

- Dr. U. H. Gawande, Dean, R and D
- Dr. N. V. Thakur, CT Department
- Dr. K. K. Bhoyar, CSE Department
- Dr. S. S. Choudhari, ME Department
- Dr. R. M. Moharil, EL Department
- Dr. J. M. Raut, CE Department
- Dr. Y. U. Chitriv, Asst. Dean, FPD, R and D
- Dr. N. D. Rehpade, Asst. Dean, IPRD, R and D

Following are the review comments by Expert Members

Innovative Experimental Set

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Mrs. T. D. Tembhekar	Electrical Engineering	Generate Electricity by Non-Biodegradable Waste	Revise, Review by RAB and Resubmit	-
2.	Mrs. T. D. Tembhekar	Electrical Engineering	Not Presented		-
3.	Sanjivini Panditkar	Applied Chemistry		Absent	-



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Innovative Minor Patentable Project

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Mrs. S. K. Mohod	Electrical Engineering	Refrigerant Base Air Cooler	Revise the Budget	-
2.	Mr. Sanjay P. Pande	Computer Technology	Deep Learning Approach for Road Condition Detection	Revise, review by RAB and resubmit	-
3.	Mr. Sanjay P. Pande	Computer Technology	Deep Learning Based Home Security System	Revise, review by RAB and resubmit	-
4.	Mrs. S. L. Tiwari	Electrical Engineering	Improved Wireless Electric Vehicle Charging System	Recommended	20,000/-
5.	Mr. Nilesh Gedam	Mechanical Engineering	Multistation Power Generation by VAWT	Recommended	20,000/-
6.	Mr. Roshan Bhanushe	Computer Technology	Driver Downiness Detection System using Holistic Method Driver	Revise, review by RAB and resubmit	-
7.	Mr. Aniket Munshi	Electrical Engineering	-	Absent	
8.	Mr. Rohan Khonde	Electrical Engineering	-	Absent	

Innovative UG PG Project

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Mr. V. R. Doifode	Electrical Engineering	-	Absent	-
2.	Dr. Boskey Bahoria	Civil Engineering	-	Absent	-
3.	Mr. V. G. Thakre	Mechanical Engineering	-	Absent	-
4.	Ms. Divya Kantode	Information Technology	Airline Chatbot	No Funding is required hence not considered in this scheme	-
5.	Mr. J. N. Dehankar	Computer Science and Engineering	Food Cold Storage Monitoring and analysis System	Recommended subject to the condition IPR and prototype with YCCE	20,000/-



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Office of Dean-Research and Development

Minor Research and Product Development

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Ms. Kavita Gudadhe			Absent	
2.	Dr. Girish Thote	Mechanical Engineering	Study and Development of Rapid Thyroid, Testing Machine for efficient and accurate diagnosis of Hypothermia/underactive thyroid	Recommended	40,000/-
3.	Mr. Nilesh Gedam	Mechanical Engineering	Design and Fabrication Dynamic Adjustable Height Speed Breaker with Speed Detection System	Not Recommended	
4.	Mrs. Megha Sawangikar	Applied Chemistry	Investigation of Soil Carbon in Agriculture land and suggest the appropriate solution of its improvement	Recommended Subject to condition of joint collaboration with IIT, Bombay	40,000/-,

It is therefore requested to approve the amount as per the details mentioned below under Inhouse schemes of MGI.

- 1. Innovative Experimental Scheme: NIL
- 2. Innovative Minor Patentable Project : 40,000/-
- 3. Innovative UG PG Project : 20,000/-
- 4. Minor Research and Product Development : 80,000/-

25/09/2023

Dr. Yogita Chitriv Assistant Dean, FPD, R and D

Dr. Nita Rehpade Assistant Dean, IPR, R and D



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Forwarded for approval

Through,

25 09/2023

Dr. Ujwala Gawande Dean, R and D

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Dr. U. P. Waghe Principal, YCCE Encl. 1. Approval of budget for In- house funding schemes

Yeshwantrao Chavan College of Engineering

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Office of Dean-Research and Development

Minutes of the Meeting

Date: 07 December 2023

A review meeting is conducted in ET and EL Department at 2.00 PM on 01 and 04 December 2023 for review of proposal submitted by faculty under following schemes for possible seed funding.

- 1. Innovative Experiment Set up
- 2. Innovative Minor Patentable Product
- 3. Minor Research and Product Development
- 4. Innovative UG/PG Project

The following committee members reviewed the proposal

- Dr. U. H. Gawande, Dean, R and D
- Dr. R. M. Moharil, EL Department
- Dr. V. G. Meshram, CE Department
- Dr. P. T. Karule, EE Department
- Dr. Y. U. Chitriv, Asst. Dean, FPD, R and D
- Dr. N. D. Rehpade, Asst. Dean, IPRD, R and D

Following are the review comments by Expert Members

Innovative UG PG Project

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Mr. Vaibhav R. Doifode	Electrical Engineering	Solar Powered Smart Refrigerator	Recommended	24,650/-
2.	Dr. Boskey Bahoria	Civil Engineering	Investigation of Acoustic Material for the Design and Development of Sound Absorbing Bricks	Recommended	25,000/-
3.	Mr. V. G. Thakre	Mechanical Engineering	-	Absent	-





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Office of Dean-Research and Development

Innovative Minor Patentable Project

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Mrs. S. K. Mohod	Electrical Engineering	Refrigerant Base Air Cooler	Recommended	18,500/-
2.	Mr. Sanjay P. Pande	Computer Technology	Deep Learning Approach for Road Condition Detection	Absent	-
3.	Mr. Sanjay P. Pande	Computer Technology	Deep Learning Based Home Security System	Absent	-
4.	Mr. Roshan Bhanuse	Computer Technology	Adaptive ML Model for Drowsiness Detection using Developed ML Model Based on Created Dataset	Recommended	11,500/-
5.	Mr. Aniket Munshi	Electrical Engineering	Solar Based Running Zebra Crossing System	Recommended	14,890/-
6.	Mr. Rohan Khonde	Electrical Engineering	Surface Solar Bricks	Recommended	18,750/-
7.	Mr. Yogesh Kale	Electronics and Telecommunication	Multiple Output Voltage Current Supply	Recommended	12,932/-

Innovative Experimental Set

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Mrs. T. D. Tembhekar	Electrical Engineering	-	Absent	-
2.	Mrs. T. D. Tembhekar	Electrical Engineering	-	Absent	-
3.	Sanjivini Panditkar	Applied Chemistry	-	Absent	-

Minor Research and Product Development

SN	Name of Faculty	Department	Title of the Proposal	Comments	Amount Sanctioned
1.	Ms. Kavita Gudadhe	Information Technology	Early Prediction of Diabetes by Machine Learning	No Funding is required hence not considered in this scheme	-



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2. Dr. Jayant M. Civil Dual Stage Drilling Raut Engineering Construction of Pile Foundation	Recommended	50,000/-
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It is therefore requested to approve the amount as per the details mentioned below under inhouse schemes of MGI.

- 1. Innovative Experimental Scheme: NIL
- 2. Innovative Minor Patentable Project : 76,572/-
- 3. Innovative UG PG Project : 49,650/-
- 4. Minor Research and Product Development : 50,000/-

Ør. Yogita Chitriv Assistant Dean, FPD, R and D

Dr. Nita Rehpade Assistant Dean, IPR, R and D

Forwarded for approval

Through,

Dr. Ujwala Gawande Dean, R and D

(ET)

Dr. U. P. Waghe Principal, YCCE

Encl. 1. Approval of budget for In- house funding schemes



Yeshwantrao Chavan College of Engineering

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Research and Development Cell

YCCE/R and D Cell/2023-24/ 533

Date: 18 September 2023

To <mark>Mr. Sagar W. Dhengare</mark> <mark>Civil Engineering</mark>

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research & Product Development

Dear Mr. Sagar W. Dhengare

We are pleased to inform you that your proposal titled **Development of Quaternary Concrete** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 30,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Civil Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 534

Date: 18 September 2023

To Dr. Prasanna M. Palsodkar/ Dr. Prachi P. Palsodkar Electronics Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research & Product Development

Dear Dr. Prasanna M. Palsodkar/ Dr. Prachi P. Palsodkar

We are pleased to inform you that your proposal titled **Edge Device Based Audio Synthesis for Detection of Cough Intensity** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 25,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

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Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electronics Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 535

Date: 18 September 2023

To <mark>Dr. Nischal P. Mungale</mark> Mechanical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research & Product Development

Dear Dr. Nischal P. Mungale

We are pleased to inform you that your proposal titled **Performance Investigation of Solar Dryers for Agriculture Food Product and Green Hurbes** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 30,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Mechanical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 536

Date: 18 September 2023

To (<mark>Mr. Chetan A. Mahatme</mark> (<mark>Mechanical Engineering</mark>

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research & Product Development

Dear Mr. Chetan A. Mahatme

We are pleased to inform you that your proposal titled **A 3-D Printed Training Device for Medical Professionals for Simulating Effective Lumbar Puncture Procedure** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 10,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

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Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Mechanical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 537

Date: 18 September 2023

To Mr. Gopal H. Waghmare Mechanical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research & Product Development

Dear Mr. Gopal H. Waghmare

We are pleased to inform you that your proposal titled **Design and Fabrication of Reusable Functional and Effective Wrist Orthosis** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 25,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

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Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Mechanical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 5 38

Date: 18 September 2023

To Mr. Dilip I. Sangotra Mechanical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research & Product Development

Dear Mr. Dilip I. Sangotra

We are pleased to inform you that your proposal titled **Fabrication and Analysis of Aqua Silencer** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 25,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Mechanical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 5 39

Date: 18 September 2023

To <mark>Mr. Sanket G. Kalamkar</mark> Civil Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research & Product Development

Dear Mr. Sanket G. Kalamkar

We are pleased to inform you that your proposal titled **Enhancing Quality of Stormwater using Pervious Concrete and Base Layer of Agro-Industrial Wastes Materials** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 20,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Civil Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 540

Date: 18 September 2023

To Mr. Dhiraj K. Thote **Electronics and Telecommunication**

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Dhiraj K. Thote

We are pleased to inform you that your proposal titled Agriculture Robot using IoT is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 15,000/-

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, **Funding Proposal**

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electronics and Telecommunication, YCCE
- A/C Section, YCCE





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Research and Development Cell

Date: 18 September 2023

YCCE/R and D Cell/2023-24/ 541

To Mrs. Nivedita A. Pande Electronics and Telecommunication

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mrs. Nivedita A. Pande

We are pleased to inform you that your proposal titled **Automatic Robotic Cleaner** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 16,019**/-

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electronics and Telecommunication, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 542

Date: 18 September 2023

To Mr. Abhishek A. Madankar Electronics and Telecommunication

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Abhishek A. Madankar

We are pleased to inform you that your proposal titled **Detection of Vata Dosha using Urine Sample** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 21,600**/-

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

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- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 543

Date: 18 September 2023

To <mark>Mr. Devendra Shahare</mark> Mechanical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Devendra Shahare

We are pleased to inform you that your proposal titled **Multipurpose Medicine Carriers Container** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 30,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

e Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Mechanical Engineering, YCCE
- A/C Section, YCCE



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Research and Development Cell

YCCE/R and D Cell/2023-24/ 544

Date: 18 September 2023

To <mark>Mr. Bhushan U. Bawankar</mark> Information Technology

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Bhushan U. Bawankar

We are pleased to inform you that your proposal titled Nadi Pariksha: Diseases Prediction System is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 16,500/-

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

de Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Information Technology, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 545

Date: 18 September 2023

To Mr. Surendra S. Nagpure Mechanical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Surendra S. Nagpure

We are pleased to inform you that your proposal titled **Cloth Drying Machine** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 20,500/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal

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

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- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 546

Date: 18 September 2023

To <mark>Mr. Yogesh S. Kale</mark> Electronics and Telecommunication

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Yogesh S. Kale

We are pleased to inform you that your proposal titled **Integrating Environmental Sensors using LORA Technology for Industrial Applications** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 25,150/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal

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

- HoD, Department of Electronics and Telecommunication, YCCE
- A/C Section, YCCE





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Research and Development Cell

VCCE/R and D Cell/2023-24/ 5 31

Date: 18 September 2023

To <mark>Mrs. Minal S. Ghute</mark> <mark>Electronics and Telecommunication</mark>

Subject: Approval of Proposal submitted under In-House Scheme of Innovative UG/ PG Project

Dear Mrs. Minal S. Ghute

We are pleased to inform you that your proposal titled **Design of Drowning Rescue Alert System** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 14,000**/-

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electronics and Telecommunication, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 532

Date: 18 September 2023

To <mark>Dr. Tejaswini Panse</mark> <mark>Electronics Engineering</mark>

Subject: Approval of Proposal submitted under In-House Scheme of Innovative UG/ PG Project

Dear Dr. Tejaswini Panse

We are pleased to inform you that your proposal titled **Water Quality Assessment and Monitoring System** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 19,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

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Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electronics Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 528

Date: 18 September 2023

To <mark>Dr. Prachi Palsodkar)</mark> <mark>Electronics Engineering</mark>

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Experimental Set up

Dear Dr. Prachi Palsodkar

We are pleased to inform you that your proposal titled **Development of Next Generation Intelligent Device Solutions with Embedded Machine Learning** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 9,887**/-

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electronics Engineering YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 5 29

Date: 18 September 2023

To Mr. Nilesh U. Sambhe Computer Technology

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Experimental Set up

Dear Mr. Nilesh U. Sambhe

We are pleased to inform you that your proposal titled **Voice Over Internet Protocol (VoIP) Based IPBX System Design** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 25,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Priscinal Pal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Computer Technology, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 5 30

Date: 18 September 2023

To <mark>Dr. Bharati N. Patil</mark> <mark>Physics Department</mark>

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Experimental Set up

Dear Dr. Bharati N. Patil

We are pleased to inform you that your proposal titled **Wavelength Measurement of Laser using a Thin Wire of Unknown Thickness** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 20,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110



- HoD, Department of Physics Department, YCCE
- A/C Section, YCCE



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Research and Development Cell

YCCE/R and D Cell/2023-24/ 672

Date: 10 October 2023

To <mark>Mr. Nilesh Gedam</mark> Mechanical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Nilesh Gedam

We are pleased to inform you that your proposal titled **Multistation Power Generation by** VAWT is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 20,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

de Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Mechanical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 673

Date: 10 October 2023

To Mr. J. N. Dehankar **Computer Science and Engineering**

Subject: Approval of Proposal submitted under In-House Scheme of Innovative UG PG Project

Dear Mr. J. N. Dehankar

We are pleased to inform you that your proposal titled Food Cold Storage Monitoring and analysis System is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 20,000/-

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principalincipal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Computer Science and Engineering, YCCE
- A/C Section, YCCE .





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Research and Development Cell

YCCE/R and D Cell/2023-24/674

Date: 10 October 2023

To Dr. Girish Thote Mechanical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research and Product Development

Dear Dr. Girish Thote

We are pleased to inform you that your proposal titled **Study and Development of Rapid Thyroid, Testing Machine for efficient and accurate diagnosis of Hypothermia/underactive thyroid** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 40,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Mechanical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 675

Date: 10 October 2023

To Mrs. Megha Sawangikar **Applied Chemistry**

Subject: Approval of Proposal submitted under In-House Scheme of Minor Research and **Product Development**

Dear Mrs. Megha Sawangikar

We are pleased to inform you that your proposal titled Investigation of Soil Carbon in Agriculture land and suggest the appropriate solution of its improvement is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 40,000/-

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal rincipal. Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Applied Chemistry, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 676

Date: 10 October 2023

To <mark>Mrs. S. L. Tiwari</mark> Electrical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mrs. S. L. Tiwari

We are pleased to inform you that your proposal titled **Improved Wireless Electric Vehicle Charging System** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 20,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal

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

- HoD, Department of Electrical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/910

Date: 06 December 2023

To <mark>Mrs. S. K. Mohod</mark> <mark>Electrical Engineering</mark>

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mrs. S. K. Mohod

We are pleased to inform you that your proposal titled **Refrigerant Base Air Cooler** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 18,500/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal

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

- HoD, Department of Electrical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/911

Date: 06 December 2023

To <mark>Mr. Roshan Bhanuse</mark> Computer Technology

Subject: Approval of Proposal submitted under In-House Scheme of **Innovative Minor Patentable Project**

Dear Mr. Roshan Bhanuse

We are pleased to inform you that your proposal titled **Adaptive ML Model for Drowsiness Detection using Developed ML Model Based on Created Dataset** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 11,500/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

le Dr. U. P. Waghe Prificipalpal, Yeshwantrao Chavan College of Engineerin Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Computer Technology, YCCE
- A/C Section, YCCE





Nagar Yuwak Shikshan Sanstha's Yeshwantrao Chavan College of Engineering

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Research and Development Cell

YCCE/R and D Cell/2023-24/912

Date: 06 December 2023

To Mr. Aniket Munshi Electrical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of **Innovative Minor Patentable Project**

Dear Mr. Aniket Munshi

We are pleased to inform you that your proposal titled **Solar Based Running Zebra Crossing System** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 14,890/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

ide Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electrical Engineering, YCCE
- A/C Section, YCCE





Nagar Yuwak Shikshan Sanstha's Yeshwantrao Chavan College of Engineering

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Research and Development Cell

YCCE/R and D Cell/2023-24/913

Date: 06 December 2023

To <mark>Mr. Rohan Khonde</mark> Electrical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Rohan Khonde

We are pleased to inform you that your proposal titled **Surface Solar Bricks** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 18,750/-**

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal

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

- HoD, Department of Electrical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/ 914

Date: 06 December 2023

To <mark>Mr. Yogesh Kale</mark> Electronics and Telecommunication

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Minor Patentable Project

Dear Mr. Yogesh Kale

We are pleased to inform you that your proposal titled **Multiple Output Voltage Current Supply** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 12,932**/-

You are requested to initiate the work on the project at the earliest.

Dr. Nita Rehpade Assistant Dean, IPR Division

Dr. Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

nde Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electronics and Telecommunication, YCCE
- A/C Section, YCCE





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

Research and Development Cell

YCCE/R and D Cell/2023-24/915

Date: 06 December 2023

То Mr. Vaibhav R. Doifode **Electrical Engineering**

Subject: Approval of Proposal submitted under In-House Scheme of Innovative UG PG Project

Dear Mr. Vaibhav R. Doifode

We are pleased to inform you that your proposal titled Solar Powered Smart Refrigerator is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 24,650/-

You are requested to initiate the work on the project at the earliest.

Yogita Chitriv Assistant Dean, Funding **Proposal Division**

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Principal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Electrical Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/91/

Date: 06 December 2023

To Dr. Boskey Bahoria Civil Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative UG PG Project

Dear Dr. Boskey Bahoria

We are pleased to inform you that your proposal titled **Investigation of Acoustic Material for the Design and Development of Sound Absorbing Bricks** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 25,000/-**

You are requested to initiate the work on the project at the earliest.

Dr.Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal

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

- HoD, Department of Civil Engineering, YCCE
- A/C Section, YCCE





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Research and Development Cell

YCCE/R and D Cell/2023-24/917

Date: 06 December 2023

To Dr. Jayant M. Raut Civil Engineering

Subject: Approval of Proposal submitted under In-House Scheme of **Minor Research and Product Development**

Dear Dr. Jayant M. Raut

We are pleased to inform you that your proposal titled **Dual Stage Drilling Mechanism for Construction of Pile Foundation** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 53,000/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal Jal, Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur - 441110

- HoD, Department of Civil Engineering, YCCE
- A/C Section, YCCE





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

Research and Development Cell

YCCE/R and D Cell/2023-24/ 919

Date: 06 December 2023

To **Mr. Fazil Sheikh** Computer Science and Engineering

Subject: Approval of proposal submitted under In-House Scheme of **Minor Research and Product Development**

Dear Mr. Fazil Sheikh

We are pleased to inform you that your proposal titled **A Smart Safety Jacket for Bikers** is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 32,778/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv Assistant Dean, Funding Proposal Division

Dr. Ujwalla Gawande Dean, R and D

Dr. U. P. Waghe Principal

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

- HoD, Department of Computer Science and Engineering, YCCE
- A/C Section, YCCE



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

Cost Centre: Electronics & Telecomm. [E & T] Under Ledger: Student Project Expenses

1-Sep-2023 to 31-Mar-2024 +

Date	Particulars	Vch Type	Vch No.	Debit	Page 1
20-9-2023	Cr (as per details) Student Project Expenses Ghute Minal S. being Expenses submitted by Dept Project Name-IoT Based Pet Dayca Name-Shreyas Deshpande, Abhi Mayur Deshmukh & Swaraj Bh Student	JOURNAL_ 19,845.00 Dr 19,845.00 Cr of E & T Student - are Robot- Student shek Sondawle,	YCCE/ JV- 853	19,845.00	
	Cr (as per details) Student Project Expenses Niranjane Vaishali being Expenses submitted by Dept Project Name-Canal Water data controlling sysytem- Shivam Patil o	monitoring and & Manish Bhosale	YCCE/ JV- 854	18,336.00	
	& Trushant Dharpure Rutik Pawar- Cr (as per details) Student Project Expenses Pande N. A. being Expenses submitted by Dept Project Name-Voice Controller El Backup and SoS messanging-Shu Vaishanavi Jadhav & Janhavi C Waghmare - 4 Nos Students	JOURNAL_ 14,514.00 Dr 14,514.00 Cr of E & T Student - levator with solar bhankar Gupta &	YCCE/ JV- 855	14,514.00	
	Cr (as per details) Student Project Expenses Dorge Prabhakar being Expenses submitted by Depu Project Name-Smart Shoe for hui and prevention- Dhanshri Nasre & Vrushali Talkhande &Harshita N Student	man fall detection Priya Sawarkar &	YCCE/ JV- 856	6,333.00	
	Cr (as per details) Student Project Expenses MASRAM BHARATI being Expenses submitted by Dep Project Name-Overloading detec Vehicles- Aakansha Nimje & Am Mehatre & Sayli Humane-4 Nos St	tion in transport ita Raut & Neha	YCCE/ JV- 857	3,646.00	
	Cr (as per details) Student Project Expenses Thote Dhiraj K being Expenses submitted by Dep Project Name-MEMS Gesture of Nandini Farkade & Vedant Khol Mahakalkar & Shubhangi Taya Students	controlled Robot- bragade & Mehul	YCCE/ JV- 858	21,851.00	

Yeshwantrao Chavan College of Engineering

Date	e: Electronics & Telecomm. [E & T] Under Ledger: Student Particulars Vch Type	Project Expenses : 1-S Vch No.	ep-2023 to 31-Ma	ar-2024 Page 2
	Brought Forward	VCH NO.	Debit 84,525.00	Credi
)-9-2023	Cr Student Project Expenses JOURNAL_ being Expenses submitted by Dept of E & T Student - Project Name-Developing a sliding gate using CV & ML Technologies- Utkarsh Dafe & Pranav Sawarkar & Manu Varghese & Nandini Sakhare- 4 nos of Students	ÝCCE/ JV- 859	13,819.00	
	Cr (as per details) JOURNAL_ Student Project Expenses 9,866.00 Dr Dubey Y. K./ Chitriv 9,866.00 Cr being Expenses submitted by Dept of E & T Student - Project NameFootprint Count using face Recognition- Samruddhi Uplapwar & Nikita Parate & Saloni Giratkar & Yashaswi Rewatkar-4 nos of Student	YCCE/ JV- 860	9,866.00	
	Cr (as per details) Student Project Expenses 8,260.00 Dr Dubey Y. K./ Chitriv 8,260.00 Cr being Expenses submitted by Dept of E & T Student - Project Name-Android App for heart diesease Prediction using ML- Sukhada Ajmire & Vedika Mathurkar & Sayalee Ambulkar & Chinmayee Didolkar- 4 nos of Students	YCCE/ JV- 861	8,260.00	
	Cr (as per details) Student Project Expenses Madankar A A being Expenses submitted by Dept of E & T Student - Project Name-Elecronics Midi Pad- Shreyas Kothiwar & Rohit Rahangdale &Ishani Zoting & Mansi Madan- 4 nos of Students	YCCE/ JV- 862	12,579.00	
	Cr (as per details) Student Project Expenses Madankar A A Project Name-Vata dosh detection- Sainath Gunde & Vibha Bopche & Leenal Nikhare & Payal Parate- 4 nos of Students	YCCE/ JV- 863	12,108.00	
16-3-202	24 Dr Student Project Expenses Bank Receipt Received from Minal Ghute Being ch received as per DFC counter No. c -12 dtd 16.03.2024	YCCE/BR/ 1305		19,845.00
			1,41,157.00	19,845 00 1,21,312.00
	Dr Closing Balance		1,41,157.00	1,41,157.00

Yeshwantrao Chavan College of Engineering Hingna Road Wanadongri, <u>N A G P U R - 441110</u>

Cost Centre: Civil Department [C E] Under Ledger: Student Project Expenses

1-Apr-2023 to 31-Mar-2024

		·			Page ?
Date	Particulars	Vch Type	Vch No.	Debit	Credi
	Cr (as per details) Student Project Expenses Nandurkar Bhupesh 6 nos "being amount of Project Expense Dept of Civil [Rs. 2300/- Top Concrete using EPS Beads- Study Nagpure, Sneha Sonawane, Srush	ics-Light Weight dent Name -Sejal iti Balki, Rushikesh	YCCE/ JV- 657	2,300.00	1
	Bhubatwar, Rohit Singanjude & S Nos] "	Swaraj Naware- o			
	Cr (as per details)	JOURNAL_	YCCE/ JV- 658	24,569.00	
	Student Project Expenses Bhagat Madhuri S 6 nos	24,569.00 Dr 8,677.00 Cr			
	Bhagat Madhuri S 🖌 6 nos	15,892.00 Cr			
	being amount of Project Expenses of Civil [Rs.8677/- Topics-Design a Water Consurvation Model -Stur Thakur, Smaruddhi Moundeka Meshram, & Nishan Joseph, Sh Tanmay Kawekar & Rs.15892/- Development of a Solid Waste Re Bumer Student Name- Komal Gotefode, Kalpak Dongre, Kris Swapnil Bhujade & Nikhil Badwaik	& Development of dent Name - Ritika ar , Soundaryya ubhamk Tonge & Topics-Design and ecycling Model and Talmale, Shital chna Harinkhede,			
	Cr (as per details)	JOURNAL_ 36,160.00 Dr	YCCE/ JV- 659	36,160.00	
	Student Project Expenses Raut Sanjay Padmakar Raut Sanjay Padmakar "being amount of Project Expen Dept of Civil [Rs.15762/- Topics Concrete panel Using TextileEffue	15,762.00 Cr 20,398.00 Cr ses submitted by - Development of ent Studge-Student			
	Name —Ashitosh Mishra, Nikhl k Swapnil Debre, , Darshana Inga 20398 /- Topics-Development of using Textile Effuent Studge- Stud Shahade, Shardul Naidu, Siddees	ıle, – 6nos & Rs. Sustainable Bricks dent Name-Atharva		4	
	Carried Over			63,029.00	
			e		

At Centr	rao Chavan College of Engineeri e: Civil Department [C E] Under L	edger: Student Project E	Vch No.	Doblt	Crodit
Date	Particulars	Ven type		63,029.00	
	Brought Forward				
-8-2023	Cr (as per details) Student Project Expenses Mendhe Valshall N being amount of Project Expenses of Civil [Rs.15727/- Topics- to S Strength and Compressive Strengt Steel Fiber, Limestone, and I -Student NameAyush kanekar, Sanket Khadse, Sudhansh Was Ghadse[5 nos]	h of Bamboo Fiber, Hybrid Composite Samin Dahikar,	YCCE/ JV- 660	15,727.00	
	Cr (as per details) Student Project Expenses Waghmare Charuta S being amount of Project Expenses of Civil [Rs.19433/- Topics- Perfo of Pomegranate Peel Bio Adsorbe Dye from Aqueous Solution -[Sanskruti Lohakare, Sejal Sowkuwar, Ankit Aghav, Gaura Shendre 6 nos]	mance Evaluation ont for Removal of Student Name Wagh, Vrushali	YCCE/ JV- 661	19,433.00	
(Cr (as per details) Student Project Expenses ANSARI KHALID SHAMIM being amount of Project Expenses of Civil [Rs.6461/- Topics-Expe Composing of tea waster, and Taguchi method-Student Nam Ashwini Kakade, Chahul Dana Sanket Sondawale & Sohel Khan-	nmental Study on its optimization by re-Rutuj Jivtode, o, Mrunal Bobde,	YCCE/ JV- 662	6,461.00	
	Cr (as per details) Student Project Expenses Raut Jayant M being amount of Project Expense of Civil [Rs.15830/- Topics-Eff Rainfall, Intensity of slope Stabin Name-Sejal Dhanvijay, Amav Ku Kailash dharmik, Saurabh Chann nos]	ect of Variation in lity in India-Student imar, Aryan Kumar,	YCCE/ JV- 663	15,830.00	
	Cr (as per details) Student Project Expenses Agrawal Dhiraj G being amount of Project Expense of Civil [Rs16050/- Topics-Inves opf Ruberized Concrete-Stud Mahant, Abhishek Rathod, A Harshal Uparwat, kapil Zode Prashik Valdya 6 nos]	stigation of Durability Ient Name-Aman niket Khobragade,	YCCE/ JV- 664	16,050.00	

Carried Over

1

1,36,530.00

continued ...

	Particulars	r Ledger: Student Project E Vch Type	Vch No.		
Date	Brought Forward	Von type		1,36,530.00	
-8-2023	Cr (as per details) Student Project Expenses Hinge Pawan being amount of Project Expense of Civil [Rs2340/- Top Investigationon Use of Elecror Strength Concrete-Student Nam vuirulkar, Samikha Dahule, Ros Chandankhede-5 nos]	pics-Experimental nics Waste in high e-Avanti Patre, Gajal	YCCE/ JV- 665	2,340.00	
	Cr (as per details) Student Project Expenses Meshram Sangita S being amount of Project Expens of Civil [Rs39749/ Topics-De Scale, Model House using C NameViplao Gharade, F Rudeprakash Khandere,Samya Banshpal & Yogesh Kosare-6 r	velopment and Small Supola Stag-Student Prasad Bhogekar, ak Pusare, Soham	YCCE/ JV- 666	39,749.00	
	Cr (as per details) Student Project Expenses Pande Prashant B. Pande Prashant B. being amount of Project Expense of Civil [Rs16191/- Topics-Ca Brick by using Foam Agent a -Student Name-Anchal Shirke, Pathan, Amer Shaikh, Vaishan Pathan-6 nos & Topics- Cas Hollow Fly Ash Bricks- Nan Jagdish Anchal Chinmay Ch Omakr Potdar, Pragag Bhav nos]	asting and analysis of and Adhesive Cement kasif Patel, Sahrood nvani Tonge, Shabab ting and Analysis of ne of the Students- itanwar, Jay Bhore,	YCCE/ JV- 667	21,191.00	
	Cr (as per details) Student Project Expenses Kurzekar Atual S being amount of Project Expen of Civil [Rs.12740/- Topic Investigation on Artificial A Student Name -Aishware Bol Shravani Danav, Abhinav Tha & Chaitanya Kakde- 6 nos]	s-An Experinmental Aggregate Concrete- bade, Nikita Chaware,	YCCE/ JV- 668	12,740.00	

Carried Over

wantrao (Chavan College of Enginee	ring Ledger: Student Project F	vpenses : 1-Apr-202	3 to 31-Mar-2024	Page 4 Credi
Date	Particulars	Vch Type	Vch No.		Cleur
Date	Brought Forward			2,12,550.00	
3-2023 Cr (as per details)	JOURNAL_	YCCE/ JV- 669	30,449.00	
be of R W -h A by	Student Project Expenses Chakole Pallavi S. Chakole Pallavi S. eing amount of Project Expense f Civil [Rs14849/- Topics-com otating Biological Contactor Vasterwater using Different Mi (hsuhi Pawar, nadshri ladke, S bhimanyu Bhanot, Nishan Badh) os & Rs, 15600/-Topics-Treat o y Rotating Biological Contractor littul Vaidya, Bhisahn Dhoble,	iparative Study of for Treatment of idias-Student Name Jandardhan Purva, γ, Prajwal Jikate, -6 f Dairy Wastewater - Students Name- Pranay Shankar,			
	nitul Valdya , Bhisann Bheas Rushikesh Ghime, Shival Dakhale os]		YCCE/ JV- 670	8,518.00	
be of Pi St	(as per details) Student Project Expenses Kamble Snehal K eing amount of Project Expense f Civil [Rs.8518/- Topics-Com, hysicochemical Properties of Se ewage Treatment palnt- Stud adbe, paunikar amol, Govind aidwad, Saurabhi Chawane, S	ewage Studge form ent Name -Aman Sharma, Samayak	YCCE/ JV- 070	0,0121212	
	os]		YCCE/ JV- 671	11,800.00	
t be of Q	(as per details) Student Project Expenses Kalamkar Sanket G eing amount of Project Expenses f Civil [Rs.11800- Topics- Develo oncreteUsing Industrial Waser uality- Student name- Anjali Gal awarkar, Sejal bhoyar, Rohit Sal iddhey Phatkar-6 nos]	to Enhance Water bhane. Dhanashree			
be of Ci Fi	(as per details) Student Project Expenses WAGH Monali R eing amount of Project Expenses r Civil [Rs.5310/- Topics- Study of oncreteusing bagasse Ash,Met iber- Student name-Dilip Kartik, ahesh bhinge, Shreyas Goswa ohod & RAmteke Paras-6 nos]	akoalin and glass Abshiek Chavan , ami & Vrushabh	YCCE/ JV- 672	5,310.00	
				2,68,627.00	2,68,627.0
Dr	Closing Balance			2,68,627.00	2,68,627.0

Yeshwantrao Chavan College of Engineering

Hingna Road Wanadongri,

N A G P U R - 441110

Cost Centre: Electronics Engg.[E E]

Under Ledger: Student Project Expenses

1-Apr-2023 to 31-Mar-2024

Date	Particulars		Vch Type	Vch No.	Debit	Credit
28-6-2023	Cr (as per details) Student Project Expenses Palsodkar Prachi P. being amount of Project Expense by Student for Topic- Streetlight Conservation and Line following Studio- 142-11.07.2022- Rs. 22 -27.10.22-Rs.944/- & 376-26.12 1132.80/- [Atharva Kulkarni, Dr Joshi, Amish kale & Madhav Te Nagdive- 5 nos.]	Energy I Car[[Robo 7.40/- & 270 .2022-Rs. panshree	JOURNAL_	YCCE/ JV- 418	4,354.00	
	Cr (as per details) Student Project Expenses Panse T G being amount of Project Expense by Student for Topic- Fire Exting Drone[navdurga Electrical & Rev -Inv No. 069-dt. 02.08.2022 for I Amazon .in Inv No. DEL4-41130 for Rs. 358/- Robu.In-Tax Inv No /60630-17.07.2022 for Rs. 2929 Global Traders-Inv No. 0567-27 3200/- & Robu.In-Tax Inv No. In /146381-20.12.2022-Rs. 7013/- No. Inv2223/59848-15.07.2022-I [Bhushan Sable, Shreyas Taruc da Thakare, Ankit Nagdeote & Ta Satdeve- 5 nos.]	guisher vinding Works Rs. 1140/- &)-16.07.2022 o Inv2223 V- & Yuvraj C07.22-R. v2223 &Robu.In-Inv Rs. 15331/- & Ikar, Harsha-	JOURNAL_	YCCE/ JV- 419	29,971.00	
	Cr (as per details) Student Project Expenses Tijare Ankita being amount of Project Expense by Student for Topic- Soldier Ro -Tax Inv No. 2223/62970-20.07. 2624/- & ElectronicsComp.com -22-23/45827-21.07.2022-Rs. 1 [Yash Parate, Mohit chandekar Yerpude, Amar Nankani & Ankin nos.]	bbot[Robu In 2022-Rs. Inv No. Inv 969.42/- , Runal	JOURNAL_	YCCE/ JV- 420	4,593.00	

38,918.00

Yeshwantrao Chavan College of Engineering

Cost Centre: E	lectronics Engg.[EE] Under Ledger: Studen	t Project Expenses : 1-Apr-202	3 to 31-Mar-2024		Page 2
Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			38,918.00	
28-6-2023		n Tax bhare,	YCCE/ JV- 421	7,181.00	
	· · · · · ·	ginee-	YCCE/ JV- 422	9,358.00	
		vring 01. r Rs. Dip	YCCE/ JV- 423	3,080.00	
D	r Closing Balance			58,537.00	58,537.00
				58,537.00	58,537.00



Yeshwantrao Chavan College of Engineering

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

(Accredited 'A' Grade by NAAC) Hingna Road, Wanadongri, Nagpur - 441 110

DEPARTMENT OF MECHANICAL ENGINEERING (Project: 2022-23)

NOTE

DATE:12-07-2024

SUBJECT: Sanction of Expenditure regarding UG project for session 2023-24.

The following is the Expenditure incurred for completion of UG project for the session 2023-24.

SR.	PROJECT GUIDE	TITLE OF THE PROJECTS	TOTAL BILL AMOUT
1	Prof. V. M. Korde	Investigation of Drying curve of pearl millet, sorghum & green peas using fluidized bed dryer	10176
2	Prof. R. V. Adakane	Design of fabrication of automatic Cercals Weighing & Packaging Machine.	41475.00
3	Prof. R. V. Adakane	Automated Commod Cleaning System	16026.00
	<u> </u>	Total	67677.00

FORNA 00.00

(Dr. J. P. Giri) HOD ME

Page 57 of 165

(V. M. KORDE) Co-Ordinator

www.vsinformatics.org info@vsinformatics.org +91-7020246125

Project Documents

IOT based Pet Daycare Robot

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 Electronics & Telecommunication Engineering

By

Shreyas Deshpande Abhishek Sondavle Mayur Deshmukh Swaraj Bhalerao

Under the guidance of

Prof. M.S. Ghute



Department of Electronics & Telecommunication Engineering

Nagar Yuwak Shikshan Sanstha's

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

2022-23

CERTIFICATE OF APPROVAL

This is to Certify that the project report entitled "IOT Based Pet Daycare Robot" has been successfully completed by Shreyas Deshpande, Abhishek Sondavle, Swaraj Bhalerao, Mayur Deshmukh under the guidance of Prof. M.S. Ghute 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. Minal S. Ghute Project Guide



Mr. Shrikant Bhandarkar **Electus Technologies**

Signature

Dr. M.S. Narlawar

HOD ET Dept

Signature of External Examiner

Name:- S. A. Bogol

Canal Water Data Monitoring and Controlling System.

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 Electronics & Telecommunication Engineering

by

Mr. Shivam Devanand Patil. Mr. Trushant Vinayak Dharpure. Mr. Manish Dnynoba Bhosle. Mr. Rutik Murlidhar Pawar.

Under the guidance of

Prof. Vaishali Niranjane.



DEPARTMENT OF Electronics & Telecommunication 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 2022-2023

Page 60 of 165

CERTIFICATE OF APPROVAL

This is to Certify that the project report entitled "Canal Water Data Monitoring and Controlling System." has been successfully completed by Shivam Patil, Trushant Dharpure, Manish Bhosle, Rutik Pawar under the guidance of Prof. Vaishali Niranjane 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)

Prof. V. B. Niranjane

Prof. V. B. Niranjane Project Guide

Mr. Pravin Zod Project Co guide

Dr. M. S. Narlawar HoD, ET Dept.

Signature of External Examiner Name: Dr. Bharadi B. Sayankar Date of Examination: 06/06/2023

Voice Controlled Elevator with

Solar Backup and SOS Messaging

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 Electronics & Telecommunication Engineering

By

Shubhankar Guha Janhavi Chikhalkar Vaishnavi Jadhav Riya Waghmare

Under the guidance of

Prof. Nivedita Pande



DEPARTMENT OF Electronics & Telecommunication 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 2022-2023

CERTIFICATE OF APPROVAL

This is to Certify that the project report entitled "Voice Controlled Elevator with Solar Backup and SOS Messaging" has been successfully completed by Janhavi Chikhalkar, Riya Waghmare, Vaishnavi Jadhav and Shubhankar Guha under the guidance of Prof. Nivedita Pande 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. Nivedita Pande Project Guide

Signature

Dr.M. S. Narlawar HOD ET Dept

Signature of External Examiner

Name: -

Date of Examination:

Smart Shoe for Human Fall Detection and Prevention

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 Electronics & Telecommunication Engineering

by

Dhanshri Narse

Harshita Nedunuri

Priya Sawarkar

Vrushali Talkhande

Under the guidance of

Dr. Prabhakar D. Dorge

Dr. Kiran Pettewar Dhanwantari Clinic, Nagpur



DEPARTMENT OF Electronics & Telecommunication 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

2022-2023

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CERTIFICATE OF APPROVAL

This is to Certify that the project report entitled "Smart Shoe for Human Fall detection and Prevention" has been successfully completed by Dhanshri Narse, Harshita Nedunuri, Priva Sawarkar and Vrushali Talkhande under the guidance of Dr. Prabhakar D. Dorge and Dr. Kiran Pettewar 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)

Dorge

(Guide)

Dr. Kiran Pettewar

(Co-Guide)

Dr. M. S. Narlawar (HoD, ET Dept.)

Signature of External Examiner:

Name: Dr. A.C. Kailuke

Date of Examination: 06/06/2023

Overloading Detection in Transport Vehicles

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 Electronics & Telecommunication Engineering

by

Aakansha Nimje Arpita Raut Neha Mehatre Sayli Humane

Under the guidance of

Dr. B. Y. Masram



DEPARTMENT OF Electronics & Telecommunication 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

2022-2023 Page 66 of 165

CERTIFICATE OF APPROVAL

This is to Certify that the project report entitled "Overloading Detection in Transport Vehicles" has been successfully completed by Aakansha-Nimje, Arpita Raut, Neha Mehatre, Sayli Humane under the guidance of Dr. Bharati 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 Tukdoji Maharaj Nagpur University).

Masram

(Guide)

Mr. Kiran Shinde (RTO Officer) (Co-Guide)

Narlawar

(HoD, ETDept.)

Signature of External Examiner A where A where A and A

ELECTRONIC NOSE - FOR INDUSTRIAL SAFETY

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 Electronics & Telecommunication Engineering

by

Unnati Singh , Anagha Kalejwar, Renuka Bhingare, Rujuta Baxy

Under the guidance of

Prof. Dhiraj Thote



DEPARTMENT OF Electronics & Telecommunication

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

2022-2023

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Certificate Of Approval

This is to Certify that the project report entitled "Electronic Nose - For Industrial Safety" has been successfully completed by Unnati Singh, Anagha Kalejwar, Renuka Bhingare, Rujuta Baxy under the guidance of Prof. Dhiraj Thote 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

(Guide)

Prof. D.K.Thote

Signature

Mr. Anand Patil

(Co Guide/Industry Person)

Signature

Dr.M.S.Narlawar (HOD, ET Dept.)

Signature of External Examiner Name:- Ø. N. S. Autoal Date of Examination:

Page 69 of 165

AUTOMATIC WASTE SEGREGATOR AND MONITORING SYSTEM

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 Bachelor of Engineering in Electronics & Telecommunication Engineering

of

Bachelor of Engineering in Electronics & Telecommunication Engineering

> *by* Prarthi Manish Joshi Ayushi Prashant Dharmik Sayali Sunil Wade

Under the guidance of Prof. D. K. Thote



Department of Electronics & Telecommunication 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

2022-23

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This is to Certify that the project report entitled "Automatic Waste Segregator and Monitoring System" has been successfully completed by Prarthi Manish Joshi, Ayushi Prashant Dharmik and Sayali Sunil Wade under the guidance of Prof. D. K. Thote 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. D. K. Thote

(Guide)

Dr. Gajendra Mahalle (Co Guide)

Signature

Dr. M. S.Narlawar

(HoD, ET Dept.)

Hurbette

Signature of External Examiner Name:- M, N, S, AubutDate of Examination: 27/05/2023

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DEPLOYING A SLIDING GATE BY UTILIZING COMPUTER VISION AND MACHINE LEARNING TECHNIQUES

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

0f

Bachelor of Engineering in Electronics and Telecommunication Engineering

By

Utkarsh Dafe Nandini Sakhare Manu Varghese Pranav Sawarkar

Under the guidance of

Prof. Yogesh Kale (Guide) Prof. Devendra Shahare (Co-guide)



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION 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

2022-23

Certified that the project report entitled "DEPLOYING A SLIDING GATE BY UTILIZING COMPUTER VISION AND MACHINE LEARNING TECHNIQUES" has been successfully completed by UTKARSH DAFE, NANDINI SAKHARE, MANU VARGHESE, PRANAV SAWARKAR under the guidance of PROF. YOGESH KALE 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. Y. S. Kale (Guide)

Signa

Prof. Devendra Shahare (Co-guide)

Signature Dr. M. S. Narlawar (HOD, ETC Dept.)

Signature of External Examiner:

Name: Prasheel Thakre. Date of Examination: 05/06/2023.

"FOOTPRINT COUNT USING FACE RECOGNITION"

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 Electronics & Telecommunication Engineering

by

Saloni Giratkar

Samruddhi Uplapwar

Yashaswi Rewatkar

Nikita Parate



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441 110

2022-2023



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Certified that the project report entitled "Footprint Count Using Face Recognition" has been successfully completed by Saloni Giratkar, Yashaswi Rewatkar, Samruddhi Uplapwar, Nikita Parate under the guidance of Dr. Yogita Chitriv (Dubey) in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electronic & Telecommunication Engineer, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

gnature

Dr.Yogita Chitriv (Dubey) (Guide)

Signature Ms. Neelam Mulmuley (Co-guide)

Signature

Dr. M.S.Narlawar (HOD ET Dept.)



Android App for Heart Disease Prediction Using Machine Learning Algorithms

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

0f

Bachelor of Engineering in Electronics & Telecommunication Engineering

by

Vedika Mathurkar Sukhada Ajmire Sayalee Ambulkar Chinmayee Didolkar

Under the guidance of

Dr. Yogita Chitriv (Dubey)



DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION 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 2022-2023

This is to Certify that the project report entitled "Android App For Heart Disease Prediction Using Machine Learning Algorithms" has been successfully completed by Vedika Mathurkar, Sukhada Ajmire, Sayalee Ambulkar, Chinmayee Didolkar, Under The Guidance Of Dr. Yogita Chitriv (Dubey) 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)

Ur. Yogita Chitriv (Dubey) Guide

Signature Dr. Nandkishor Bankar Co-Guide

Signature Dr. M. S. Narlawar HOD

Signature of External Examiner; Name: M, S. Autothe Date of Examination:

Detection of Vata dosha using Blood sample

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

0f

Bachelor of Engineering in Electronics & Telecommunication Engineering

By

Sainath Gunde Leenal Nikhare Vibha Bopche Payal Parate

Under the guidance of

Prof. A. A. Madankar



Department of Electronics & Telecommunication Engineering

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR – 441110

2022-2023

This is to certify that the project report entitled "Detection of vata dosha using blood sample" has been successfully completed by Sainath Gunde, Vibha Bopche, Leenal Nikhare and Payal Parate under the guidance of Prof. A. A. Madankar and Dr. Arun Wankhede 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. A. A. Madankar

(Guide)

Signature Dr. Arun Wankhede

(Co Guide)

Signature Dr. M. S. Narlawar

(HoD, ET Dept.)

Signature of External Examiner: Name: Date of Examination:

ELECTRONIC MIDI PAD

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 Electronics & Telecommunication Engineering

by

Shreyas Kothiwan Rohidas Rahangdale Ishani Zoting Mansi Madavi

Under the guidance of

Prof. Abhishek Madankar



DEPARTMENT OF Electronics & Telecommunication 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 2022-2023

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This is to Certify that the project report entitled "Electronic Midi Pad" has been successfully completed by Shreyas Kothiwan, Rohidas Rahangdale, Mansi Madavi, Ishani Zoting under the guidance of 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)

Abhishek Madankar Prof (Guide)

Mr. Rahul Koradkar (Co-Guide)

Dr. M.S. Narlawar (HOD)

Signature of External Examiner Name: Date of Examination:

LIGHT WEIGHT CONCRETE USING EPS BEADS

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 Technology in Civil Engineering

By Sneha Sonwane Rohit Singanjude Sejal Nagapure

Swaraj Naware Rushikesh Bhujbatkar Srushti Balki

Under the guidance of **Prof. B.P. Nandurkar**.



DEPARTMENT OF CIVIL 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

2022-2023

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Certified that the project report entitled "LIGHT WEIGHT CONCRETE USING EPS BEADS" has been successfully completed by Sneha Sonwane, Rohit Singanjude, Sejal Nagapure, Swaraj Naware, Rushikesh Bhujbatkar, Srushti Balki under the guidance of Prof. B.P.Nandurkar in recognition to the partial 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)

Signature

Dr. B.P. Nandurkar (Guide)



Prof. Snehal Kamble (Coordinator)

Signature

Dr. S.P. Raut (HoD)

Ball Signature of External Examiner Name PROF. KAMLESH V. MADURWAR Date of Examination: 05706/2023

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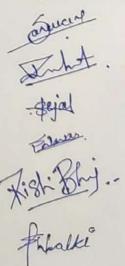
DECLARATION

I / We certify that,

- a. We have done the work contained in this project under the guidance of our supervisors.
- 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 confirmed 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 Student	Enrollment Number	
1.	Sneha Sonwane	19010305	
2.	Rohit Singanjude	19010165	
3.	Sejal Nagapure	19010403	
4.	Swaraj Naware	19011047	
5.	Rushikesh Bhujbatkar	19010670	1
6.	Srushti Balki	19010750	

Signature Of Students



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DESIGN AND DEVELOPMENT OF SOLID WASTE **RECYCLING MODEL**

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 Civil Engineering

By

Swapnil Bhujade Nikhil Bidwaik Kalpak Dongare Krishna Harinkhede **Komal Talmale Shital Gotefode**

Under the guidance of





DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Santa's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur) NAGPUR - 441 110

2022-23

Certified that the project report entitled "DESIGN AND DEVELOPMENT OF WASTE RECYCLING MODEL" has been successfully completed by Swapnil Bhujade, Nikhil Bidwaik, Kalpak Dongare, Krishna Harinkhede, Komal Talmale, Shital Gotefode under the guidance of Prof. Dr. Ms. M. S. Bhagat 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

Name of Guide

Prof. Dr. Ms. M. S. Bhagat Signature

Name of Co-Guide (Co-Guide)



Name of Coordinator

Prof. Ms. S. K. Kamble

Signature

Name of Head of Dept

Prof. Dr. S. P. Raut

P. Bis Signature of External Examiner Name P. Biser Date of Examination

DECLARATION

I / we certify that

- The work contained in this project has been done by me under the guidance of my supervisor(s).
- The work has not been submitted to any other Institute for any degree or diploma.
- We have followed the guidelines provided by the Institute in preparing the project report.
- We have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- 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.

Signature of the Student/s

, ÷.,

Name of the student	the	Name of the student	Signature of the
	Student		Student
	Susciencia	4 Krishna Harinkhede	Kathna
2. Nikhil Bidwaik	Bound	5 .Komal Talmale	Komal
3. Kalpak Dongare	Kalpale.	6. Shital Gotefode	Shital.

DESIGN AND DEVELOPMENT OF WATER CONSERVATION MODEL

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur

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

In partial fulfilment of the requirement

for the award of the degree

of

Bachelor of Engineering in Civil Engineering

By

1) Ritika Thakur

3) Soundarya Meshram

5) Shubham Tonge

2) Samruddhi Moundekar

4) Nishant Joseph

6) Tanmay Kawthekar

Under the guidance of

DR. M. S. BHAGAT

(ASSISTANT PROFESSOR)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

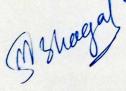
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2022-2023

Page 88 of 165

Certified that the project report entitled "DESIGN AND DEVELOPMENT OF WATER CONSEVATION MODEL" has been successfully completed by RITIKA THAKUR, SAMRUDDHI MOUNDEKAR, SOUNDARYA MESHRAM, NISHANT JOSEPH, SHUBHAM TONGE, TANMAY KAWTHEKAR under the guidance of ASST. PROF. Dr. MADHURI S. 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 Tukdoji Maharaj Nagpur University).



Signature

Prof. Dr. M. S. Bhagat



Signature

Signature

Signature

Dr. S. P. Raut

(Guide)

Prof. Dr. R. G. Surose Dept. of Chemistry

Prof. Snehal Kamble

(HOD)

(Co-Guide)

(Co-ordinator)

Signature of External Examiner: No-Name: Dr. Pallavi Biser

Date of Examination:

DECLARATION

I / We certify that,

- We have done the work contained in this project under the guidance of our supervisors.
- The work has not been submitted to any other Institute for any degree or diploma.
- We have followed the guidelines provided by the Institute in preparing the project report.
- We have confirmed the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- 5) 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 reportand giving their details in the references. Further, we have taken permission from the copyright owners of the sources, whenever necessary.

Name of the stude	ent Signature of the Student	Name of the student	Signature of the Student
1 Ritika Thakur	Ditika	4 Nishant Joseph	Dishant
2 Samruddhi Mour	idekar Koundekar	5 Shubham Tonge	SI.
3 Soundarya Mesh	ram CN	6 Tanmay Kawthekar	Janma y e

DEVELOPMENT OF CONCRETE PANELS USING TEXTILE EFFLUENT SLUDGE

This project is submitted to

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

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

Of Bachelor of Engineering in Civil Engineering *By* Ashutosh Mishra Nikhil Kate Vikas Madke

Swapnil Dabre

Darshana Ingle

Under the guidance of

Dr. S.P. Raut Prof. Udaysingh Patil



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuvak Shikshan Sanstha's YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING (An Autonomous Institution Affiliated to Rastrasant Tukdoji Maharaj Nagpur University) NAGPUR - 441 110

2022-23

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Certified that the project report entitled "DEVELOPMENT OF CONCRTE PANELS USING TEXTILE EFFLUENT SLUDGE" has been successfully completed by Ashutosh Mishra, Nikhil Kate, Vikas Madke, Swapnil Dabre, and Darshana Ingale under the guidance of Dr. S. P. Raut and Prof. Udaysingh Patil in the recognition to the partial fulfillment for the award of the degree of Bachelor Of Engineering, in Yeshwantrao Chavan College Of Engineering(An Autonomous Institution Affilliated to Rastrasant Tukdoji Maharaj Nagpur University)

Dr. S. P. Raut (Guide)

Prof. Udaysingh Patil (Co-Guide)

Prof. Ms. S.K. Kamble (Coordinator)

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Dr. S. P. Raut (HoD)

Signature of External Examiner :

Name

: Proz. P.S. Bhandoni

Date of Submission

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DEVELOPMENT OF SUSTAINABLE BRICKS USING TEXTILE EFFLUENT SLUDGE

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

Civil Engineering

By

Atharva Kanchan Shahade Shardul Sandeep Naidu Siddhesh Jitendra Kulkarni

Under the guidance of

Guide: Dr. Sanjay P. Raut Co-Guide: Prof. Udaysingh Patil



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha

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

2022-23

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Certified that the project report entitled "DEVELOPMENT OF SUSTAINABLE BRICKS USING TEXTILE EFFLUENT SLUDGE" has been successfully completed by ATHRAVA K. SHAHADE, SHARDUL S. NAIDU, SIDDHESH J. KULKARNI under the guidance of Dr. Sanjay P. Raut 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)

SIE

Dr. S.P. Raut (Guide)

Prof. Uday Singh Patil (Co-Guide)

Prof. S. K. Kamble (Coordinator)

Dr. S.P. Raut (HoD)

BUR

Signature of External Examiner Name: PROF. KAMLESH V. MADURWAR Date of Examination: 05/06/2023

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TO STUDY THE FLEXURAL STRENGTH AND COMPRESSIVE STRENGTH OF BAMBOO FIBER, STEEL FIBER, LIMESTONE AND HYBRID COMPOSITES

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 CIVIL Engineering

By

SAMIN DAHIKAR

AYUSH KANEKAR SWARNIM GHADSE SANKET KHADSE SUDHANSHU WASADE

Under The Guidance Of Prof. V.N MENDHE



DEPARTMENT OF CIVIL ENGINEERING Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO

COLLEGE OF NAGPUR441110 ENGINEERING,

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

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2022-2023

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Certified that the project report entitled "TO STUDY THE FLEXURAL STRENGTH AND COMPRESSIVE STRENGTH OF BAMBOO FIBER, STEEL FIBER, LIMESTONE AND HYBRID COMPOSITES" has been successfully completed by AYUSH KANEKAR, SAMIN DAHIKAR, SANKET KHADSE ,SWARNIM GHADSE,SUDHANSHU WASADE under the guidance of Prof. V.N MENDHE 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



Mrs. SNEHAL KAMBLE

(Coordinator)

515

Signature Dr. S.P RAUT (HoD)

Prof. V.N MENDHE

(Guide)

Signature of Examiner : Examiner Name: Prof. P.S. B' handaw Date of Examination :0 5 /06 / 2023

Performance Evaluation of Pomegranate Peel Bio Adsorbent for the Removal of Methylene Blue Dye from an Aqueous Solution

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 Civil Engineering

By

Sanskruti Lohakare

Ankit Aghav

Sejal Wagh

Gaurav Surkar

Vrushali Somkuwar

Hardik Shendre

Under the guidance of

Prof. Charuta Waghmare



DEPARTMENT OF CIVIL ENGINEERING Nagar Yuwak Shikshan Santha's YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, (An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR - 441 110

2022-23



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Certified that the project report entitled "Performance Evaluation of Pomegranate Peel Bio Adsorbent for the Removal of Methylene Blue Dye from Aqueous Solution" has been successfully completed by Sanskruti Lohakare, Sejal Wagh, Vrushali Somkuwar, Ankit Aghav, Gaurav Surkar, Hardik Shendre under the guidance of Prof. Charuta Waghmare 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 Tukdoji Maharaj Nagpur University)

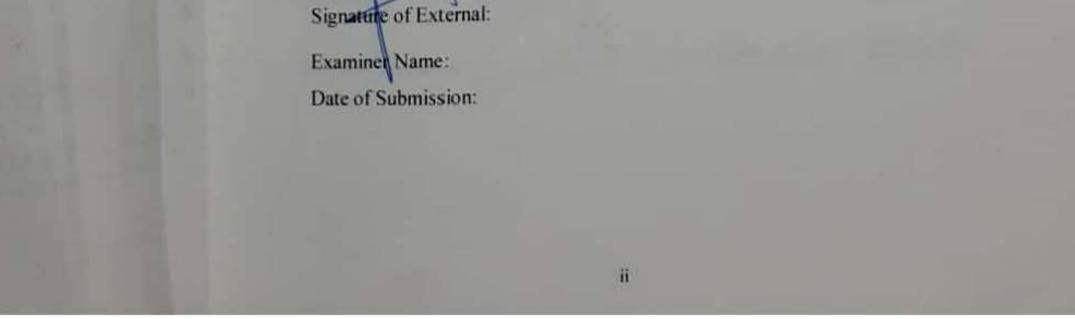
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Prof. Charuta Waghmare (Project Guide)

Prof. Snehal Kamble (Co-Ordinator)

515

Dr. S. P. Raut (HoD)



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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 Student

Signature Of Student

Name of Student

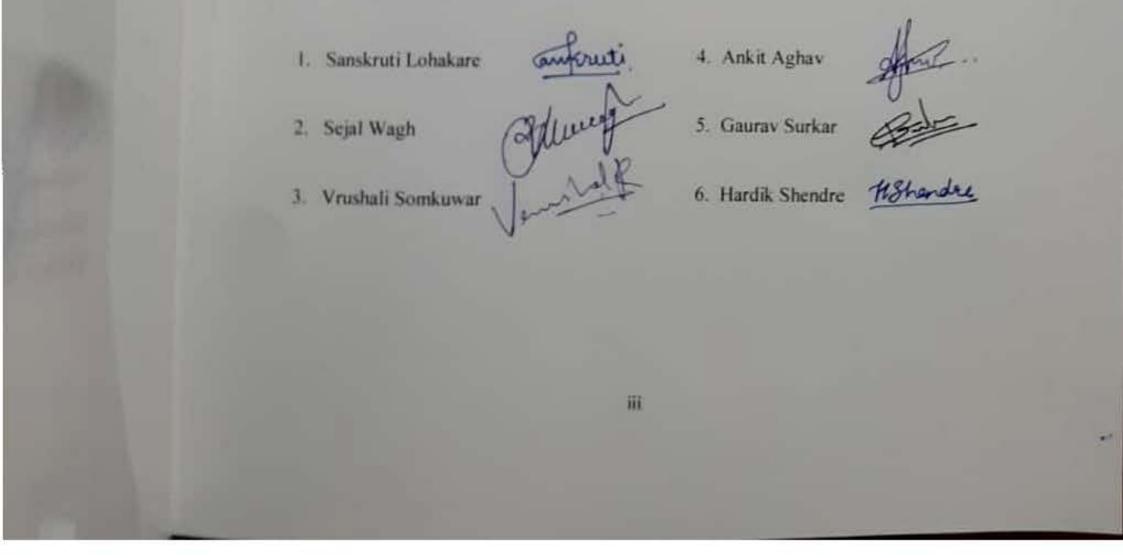
Signature OF Student

5. Gaurav Surkar

4. Ankit Aghav

6. Hardik Shendre

Hishandre



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EXPERIMENTAL STUDY ON COMPOSTING OF TEA WASTE AND ITS OPTIMIZATION BY TAGUCHI METHOD AND RESPONSE SURFACE METHODOLOGY

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 requirement

For the award of the degree

0f

Bachelor of Engineering in Civil Engineering

By

Sohel Z. Khan Sanket B. Sondawale Chahul V. Danao Mrunal P. Bobade Ashwini A. Kakde Rutuja A. Jivtode

Under the guidance of

Mr. KHALID S. ANSARI (Guide)

Dr. PRAJAKTA .U. WAGHE (Co-Guide)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuvak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj NagpurUniversity) NAGPUR-441110

2022-23

Certified that the project report entitled "EXPERIMENTAL STUDY ON COMPOSTING OF TEA WASTE AND IT'S **OPTIMIZATION BY** TAGUCHI METHOD AND RESPONSE SURFACE **METHODOLOGY**" has been successfully completed by Sohel Z. Khan, Sanket B. Sondawale, Chahul V. Danao, Mrunal P. Bobade, Ashwini A. Kakde, Rutuja A. Jivtode under the guidance of Mr. Khalid S. Ansari and Dr. Prajakta.U.Waghe in the 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 Affilliated to Rashtrasant Tukdoji Maharaj Nagpur University).

Signature

Mr. Khalid S. Ansari

(Guide)

Signature

Dr. Prajakta U. Waghe

(Co-Guide)

CH

Signature Prof. Snehal K. Kamble (Coordinator)

1 5

Signature Dr. S. P. Raut (HOD)

Signature of External Examiner: Name: ViK06 Agoonocu Date of Examination: 05/06/2023

DECLARATION

We clarify that,

1. We have done the work contained in this project under the guidance of our supervisors.

-

- 2. We have followed all the instructions given by our guide and mentors.
- 3. We have followed the guidelines provided by the institute in preparing the project report.
- We have taken the permission from HOD and our project guideregarding the use of equipment in the laboratory.
- Wherever we have used materials or data from the other sources, we have given due credit to them by giving their details in references

SR.NO	NAME OF STUDENTS	SIGNATURE OF STUDENTS
1	Sohel Z. Khan	Sotre
2	Chahul V. Danao	Garner,
3	Sanket B. Sondawale	D
4	Mrunal P.Bobade	Musl
5	Ashwini A.Kakade	Barrakerd e
6	Rutuja A.Jiotode	Ratocle

EFFECT OF VARIATIONS IN RAINFALL INTENSITY ON STABILITY OF SLOPES IN INDIA

This project is submitted to

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

In partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Civil Engineering

By

Sejal Dhanvij (A-20)
 Arnav Kumar (A-36)

3) Aryan Kumar (A-38)

4) Kalash Dharmik (A-48)5) Saurabh Channe (A-65)6) Aman Mahant (B-135)

Under the guidance of

Dr. J. M. Raut

(Assistant Professor)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) NAGPUR - 441110

2022-2023

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Certified that the project report entitled "EFFECT OF VARIATIONS IN RAINFALL INTENSITY ON STABILITY OF SLOPE IN INDIA" has been successfully completed by SEJAL DHANVIJ, ARNAV KUMAR, ARYAN KUMAR, KALASH DHARMIK, SAURABH CHANNE, AMAN MAHANT under the guidance of DR. J.M RAUT 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).

gnature

Dr. J.M. Raut (Guide)

Signature

Proff. Snehal kamble (Co-Oridnator)

Signature

Dr. S.P. Raut (HOD)

Signature of External Examiner:

Name: DR. AMIT PADADE Date of Examination: 03/06/2023

Page 104 of 165

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INVESTIGATION OF DURABILITY OF RUBBERIZED CONCRETE

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 Civil Engineering

By

Abhishek Rathod Aniket Khobragade Harshal Uparwat

Kapil Zode Sagar Thakre Prashik Vaidya

Under the guidance of Prof. Dhiraj Agrawal



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING (An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj NagpurUniversity, Nagpur) NAGPUR - 441 1110 2022-23

ii

Certified that the project report entitled "INVESTIGATION OF DURABILITY FOR RUBBERIZED CONCRETE" has been successfully completed by ABHISHEK RATHOD, ANIKET KHOBRAGADE, HARSHAL UPARWAT, KAPIL ZODE, SAGAR THAKRE, PRASHIK VAIDYA under the guidance of PROF. DHIRAJ 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)



Sign

Sign

Prof. Dhiraj Agrawal (Guide)

Prof. Snehal Kamble (co-ordinator)

Dr. S. P. Raut (HoD)

Signature of External Examiner: Name: PROF. KAMLESN V. MADURWAR Date of Examination: 05706/2023

DECLARATION

We certify that

a. The work contained in this project has been done by me under the guidance of my supervisor(s). b. The work has not been submitted to any other Institute for any degree or diploma.

c. I have followed the guidelines provided by the Institute in preparing the project report.

d. I have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.

e. Whenever I have used materials (data, theoretical analysis, figures, and text) from other sources, I have given due credit to them by citing them in the text of the report and giving their details in the references. Further, I have taken permission from the copyright owners of the sources, whenever necessary

	Name of Student Signature	Name of Student	Signature
1.	Abhishek Rathod	4. Kapil Zode	@zode
2.	Aniket Khobragade An. phobragude,	5. Sagar Thakre	An
3.	Harshal Uparwat	6. Prashik Vaidya	puidge

Date: - 08/05/2023 **Place:** - YCCE, Nagpur.

iv

Experimental Investigation on Use of Electronic Waste in High Strength Concrete

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

Bachelor of Engineering in Civil Engineering

By

AVANTI PATRE

GAJAL VIRULKAR

SAMIKSHA DAHULE

ROSHAN KOLHE

SAMYAK CHANDANKHEDE

Under the guidance of

Prof. P. K. Hinge



DEPARTMENT OF CIVIL ENGINEERING Nagar Yuwak Shikshan Santa's YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, (An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

> NAGPUR - 441 110 2022-23

> > Page 108 of 165

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Certified that the project report entitled Experimental Investigation on Use of Electronic Waste in High Strength Concrete has been successfully completed by AVANTI PATRE, GAJAL VIRULKAR, SAMIKSHA DAHULE, ROSHAN KOLHE and SAMYAK CHANDANKHEDE under the guidance of P.K. HINGE sir in recognition to the 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)



Signature: Prof. P.K. Hinge

Signature: Prof. Snehal Kamble

13

Signature: Dr. Sanjay Raut

Signature: Name of external examiner:

PROF. K. V. MADURWAR

Project (Guide)

Project(Coordinator)

(HOD) Civil Dept

Date Of Examination: 05/06/23

DECLARATION

We certify that,

a. The work contained in this project has been done by me under the guidance of my supervisor(s).

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 the student

- 1. AVANTI PATRE
- 2. GAJAL VIRULKAR
- 3. SAMIKSHA DAHULE
- 4. ROSHAN KOLHE
- 5. SAMYAK CHANDANKHEDE

Signature of the Student

Page 110 of 165

DEVELOPMENT OF SMALL SCALE MODEL HOUSE USING CUPOLA SLAG

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 Civil Engineering

 B_{Y}

Soham Banshpal Rudraksh Khandare Yogesh Kasare Prasad Bhogekar Samyak Pusate Viplav Ghurde

Under the guidance of Prof. Sangita S. Meshram



DEPARTMENT OF CIVIL 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

2022-23

Page 111 of 165

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Certified that the project report entitled "DEVELOPMENT OF SMALL SCALE MODEL HOUSE USING CUPOLA SLAG" has been successfully completed by Soham Banshpal, Prasad Bhogekar, Rudraksh Khandare, Samyak Pusate, Yogesh Kasare, Viplav Ghurde under the guidance of Prof. Sangita S Meshram in recognition to the partial 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)

Signature



SIS

Signature

Prof.S.S.Meshram (Guide)

Ms.Snehal K Kamble (Coordinator) Dr. Sanjay P Raut (HoD)

Signature of External Examiner: Name: Pooz. P. S. Bhandan Date of Examination: 03/06/2023

CASTING AND ANALYSIS OF HOLLOW FLY ASH BRICK

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 Civil Engineering

By

Anchal Donode Chinmay Chintawar Jay Bhore Omkar Potdar Parag Bhave Deepali Dhage

Under the guidance of Dr. P. B. Pande



DEPARTMENT OF CIVIL 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

2022-23

Page 113 of 165

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Certified that the project report entitled "CASTING AND ANALYSIS OF HOLLOW FLY ASH BRICK" has been successfully completed by Anchal Donode, Chinmay Chintawar, Jay Bhore, Omkar Potdar, Parag Bhave, Deepali Dhage under the guidance of Dr.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 Tukdoji Maharaj Nagpur University)

Signature

Dr. P.B. Pande (Guide)

Signature

Prof. Snehal Kamble

(Coordinator)

Signature

Dr. S.P. Raut (HoD)

Relume

Signature of External Examiner: Name: M.D.Piduskar Date of Examination: 02/06/2023

Light Weight Mortar Bricks

CASTING AND ANALYSIS OF LIGHT WEIGHT BRICKS BY USING FOAM AGENT AND ADHESIVE CEMENT

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 Civil Engineering

By

SHAHABAZ KHAN ACHAL SHIRKE SHAROOF KHAN KASIFA PATEL VAISHNAVI TONGE AMER SHAIKH

Under the guidance of



DEPARTMENT OF CIVIL 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 2022-2023

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Certified that the project report entitled "CASTING AND ANALYSIS OF LIGHT WEIGHT BRICKS BY USING FOAM AGENT AND ADHESIVE CEMENT" has been successfully completed by Shahabaz Khan, Kasifa Patel, Achal Shirke, Vaishnavi Tonge, Sharoof Khan, Amer Shaikh, under the guidance of DR. 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 Tukdoji Maharaj Nagpur University)

Dr.P.B. Pande

(Guide)

Prof. Snehal Kamble (Co-ordinator)

Dr. S.P. Raut (HOD)

illunt

Signature of External Examiner Name M. P. Piduthah Date of Examination: 02. June 2123

[2]

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AN EXPERIMENTAL INVESTIGATION ON ARTIFICIAL AGGREGATE CONCRETE.

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 Civil Engineering By

ABHINAV THAKARE AISHWARYA BOBDE NIKITA CHAWARE ABHISHEK SHELKE CHAITANYA KAKDE SHRAVANI DANAV

Under the guidance of

Prof. ATUL S. KURZEKAR



DEPARTMENT OF CIVIL 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 2022-2023

Page 117 of 165

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Certified that the project report entitled "AN EXPERIMENTAL INVESTIGATION ON ARTIFICIAL AGGREGATE CONCRETE" has been successfully completed by Abhinav Thakare, Abhishek Shelke, Aishwarya Bobde, Chaitanya Kakde, Nikita Chaware, Shravani Danav under the guidance of Mr. Atul 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).

nature

Pper. Atul S. Kurzekar (Guide) Signature Prof. Snehal Kamble (Co- ordinator)

\$ 5 Signature

Dr. S. P. Raut (HOD)

Fum

Signature of External Examiner Name $M \cdot D$ Pidux Ku%Date of Examination: 0 2/06/23

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Certified that the project report entitled – "Comparative study of Rotating Biological Contactor for treatment of waste water using different media" has been successfully completed by Purva Naktode, Nadshri Ladke, Khushi Pawar, Nishant Badlu , Prajwal Jikate , Abhimanyu Bhanot , under the guidance of degree of Bachelor of Technology in Civil Engineering, Yeshwantrao Chavan College of Engineering. (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

Signature

Prof. Pallavi.S.Chakole (Guide) Signature

Prof.Snehal Kamble

(Coordinator)

SIS

Signature Dr. Sanjay.P.Raut

(HOD)

Name : Mohit Singh katol Date of Examination : 5/06/23

DECLARATION

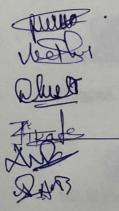
We certify that

- a. The work contained in this project has been done by me under the guidance of my supervisor(s).
- 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

Signature

Ms.Purva Naktode Ms.Nadshri Ladke Ms.Khushi Pawar Mr.Prajwal Jikate Mr.Nishant Badlu Mr.Abhimanyu Bhanot



TREATMENT OF INDUSTRIAL DAIRY WASTE WATER USING ROTATING BIOLOGICAL CONTACTOR

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 Civil Engineering

By

Hitul Vaidya Bhushan Dhole Rushikesh Ghime Pranay Tonge Shival Dakhale Shreyas Joshi

Under the guidance of Prof. Ms. Pallavi S. Chakole



DEPARTMENT OF CIVIL ENGINEERING Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

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

NAGPUR-441110

2022-2023

Page 121 of 165

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Certified that the project report entitled "TREATMENT OF INDUSTRIAL DAIRY WASTE WATER USING ROTATORY BIOLOGICAL CONTACTOR UNIT" has been successfully completed By HITUL VAIDYA, PRANAY TONGE, SHIVAL DHAKLE, BHUSHAN DHOLE, RUSHIKESH GHIME, SHREYAS JOSHI under the guidance of Prof.Ms. PALLAVI S. CHAKOLE in recognition to the partial 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).

Signature

Prof. Pallavi .S. Chakole (Guide)

Signature

Prof. Snehal Kamble (Co-ordinator)

Signature

Dr .Sanjay .P. Raut (HOD)

Signature of External Examiner : Name: Malit Lingh Kathur Date of Examination: : 05/06/2023

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COMPARATIVE STUDY OF PROPERTIES OF SEWAGE SLUDGE FROM SEWAGE TREATMENT PLANT

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 Civil Engineering

By

Aman Kadbe Amol Paunikar Govind Sharma Samyak Gayakwad Saurabh Bonde Saurabh Chawne *Under the guidance of*

Ms. Snehal K. Kamble



DEPARTMENT OF CIVIL 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

2022-23

Page 123 of 165

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Certified that the project report entitled "Comparative study of properties of sewage sludge from sewage treatment plant" has been successfully completed by Aman Kadbe, Amol Paunikar, Govind Sharma, Samyak Gayakwad, Saurabh Bonde, Saurabh Chawne under the guidance of Ms. Snehal K. Kamble 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

Dr. Sanjay P. Raut

Ms. Snehal K. Kamble

(Guide)

Ms. Snehal K. Kamble

(Coordinator)

(HoD)

Signature of External Examiner

Name Peof. Monitsmyn kotoch

Date of Examination:

Page 124 of 165

DEVELOPMENT OF PERVIOUS CONCRETE USING INDUSTRIAL WASTE TO ENHANCE WATER QUALITY

This project is submitted to

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

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

Of Bachelor of Engineering in Civil Engineering

By

Dhanshree Sawarkar Sejal Bhoyar Anjali Gabhane

Siddhey Phatkar Rohit Sahu Rutuj Khawas

Under the guidance of

Prof. Sanket G. Kalamkar



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuvak Shikshan Sanstha's YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING (An Autonomous Institution Affilliated to Rastrasant Tukdoji Maharaj Nagpur University) NAGPUR-441 110

Batch - 2022-23



Certified that the project report entitled "DEVELOPMENT OF PERVIOUS CONCRTE USING INDUSTRIAL WASTE TO ENHANCE WATER QUALITY" has been successfully completed by Dhanshree Sawarkar, Siddhey Phatkar, Sejal Bhoyar, Rohit Sahu, Anjali Gabhane & Rutuj khawas under the guidance of Prof. Sanket G. Kalamkar in the recognition to the partial fulfillment for the award of the degree of Bachelor Of Engineering, in Yeshwantrao Chavan College Of Engineering (An Autonomous Institution Affilliated to Rastrasant Tukdoji Maharaj Nagpur University)

Prof. Sanket G. Kalamkar (Guide)

Prof. Snehal Kamble (Co-oridnator)

512

Dr. S. P. Raut (HOD)

Signature of External Examiner :

Name

Date of Submisssion

: Prof. P. S. Bhandard

:03106/2023

ii



DECLARATION

I/ we clarify that,

- 1. We have done the contained in this project under the guidance of our supervisors.
- 2. We have followed all the instructions given by our guide and mentors.
- 3. We have followed the guidelines provided by the institute in preparing the project report.
- 4. We have taken the permission from HOD and our project guide regarding the use of equipment in the laboratory.
- 5. Wherever we have used materials or data from the other sources, we have given due credit to them by giving their details in references.

Name of student

Dhanshree Sawarkar Siddhey Phatkar Anjali Gabhane Rohit Sahu Sejal Bhoyar Rutuj Khawas

Signature of student

iii



Study of Self-compacting Concrete with Bagasse Ash, Metakaolin and Glass Fibre

This project report is submitted to

Yeshwantrao Chavan College of Engineering, Nagpur

(An Autonomous Institution Affiliated with Rashtrasant Tukadoji Maharaj Nagpur

University)

In partial fulfillment of the requirement

For the award of the degree

of

Bachelor of Engineering in Civil Engineering

By

1) Abhishek Chavan (A-34)

2) Kartik Tarodekar (A-49)

3) Mahesh Bhinge (B-151)

4) Shreyas Goswami (B-176)

5) Paras Ramteke (B-162)

6) Vrushabh Mohod (C-283)

Under the guidance of

Ms. Monali Wagh

(Assistant Professor)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441110 (2022-2023)

Page 128 of 165

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Certified that the project report entitled " Study Of Self-compacting Concrete With Bagasse Ash, Metakaolin and Glass Fibre " has been successfully completed by Abhishek Chavan , Kartik Tarodekar , Mahesh Bhinge , Shreyas Goswami , Paras Ramteke & Vrushabh Mohod under the guidance of Ms. Monali Wagh Mam 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).

Professor Monali Wagh

(Guide)

Prof. Snehal Kamble

(Co-ordinator)

Dr. S.P.Raut

(HOD)

116

Signature of External Examiner: Name: Prof. P. 5. Bhandari Date of Examination - 5-06-2023

Page 129 of 165

Streetlight Conservation Model and Line Following Car

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 Electronics Engineering

By

Atharva Kulkarni Amisha Kale Madhav Tejpal Sakshi Nagdive

Under the guidance of

Dr. Prasanna 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 2022-2023

1

Certified that the project report entitled "Streetlight Conservation Model and Line Following Car" has been successfully completed by Atharva Kulkarni, Amisha Kale, Madhav Tejpal, and Sakshi Nagdive under the guidance of Dr. Prasanna Palsodkar in recognition to the partial fulfillment for the award of the degree of B.E. Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur during session 2022-23

tsodea

Dr. Prasanna Palsodkar (Guide)

Dr. P.P.Palsodkar/ Dr. U.S. Ghodeswar

(Project Co-coordinators)

Dr. R. D. Thakare

(HOD, EE Dept.)

Signature of External Examiner: Name: Dro, P. R. Selocar Date of Examination: 0906 23

FIRE EXTINGUISHER DRONE

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 Electronics Engineering

By

Bhushan Sable

Shreyas Tarudkar

Ankit Nagdeote

Tarkeshwar Satdeve

Harshada Thakare

Under the guidance of

Dr. Tejaswini G. Panse



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuvak Shikshan Sanstha's YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur) NAGPUR – 441110 2022-2023

Certified that the project report entitled "FIRE EXTINGUISHER DRONE" has been successfully completed by BHUSHAN SABLE, SHREYAS TARUDKAR, ANKIT NAGDEOTE, TARKESHWAR SATDEVE and HARSHADA THAKARE under the guidance of **Dr. TEJASWINI G. PANSE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) during 2022-2023.

Signature

Dr. Tejaswini G. Panse (Guide)

gnature

Dr. Prachi P. Palsodkar (Coordinator)

Baray

Signature Dr. R. D. Thakare (HoD,EE)

p. p. Ashtankay of External SIG123

Signature of External Examiner:

Name: Date of Examination:

Data Transmission using LiFi

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

Bachelor of Engineering in Electronics Engineering

bv **Gauri Dambhare Riya Singh Tushar Waghmare Ajay Khot**

Under the guidance of

Dr.Yashika Gaidhani



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar YuwakShikshan Sanstha's

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

> NAGPUR - 441 110 2022-23



Certified that the project report entitled "Data Transmission using LiFi" has been successfully completed by Gauri Dambhare, Riya Singh, Tushar Waghmare, Ajay Khot under the guidance of Dr.Yashika Gaidhani of in recognition to the partial fulfillment for the award of the degree of B.E. Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaja Nagpur University), Nagpur during session 2022-23

Dr.Yashika Gaidhani (ProjectGuide)

Dr. P.P.Palsodkar (Project Co-coordinators)

when

Dr. R. D. Thakare (HOD, EE Dept.)

Signature of External Examiner Name: Dr. P. R. Selokar Date of Examindtion: 02/06/23

ZigBee Based Controlling and Monitoring System

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 Electronics Engineering By

> > Shruti Joshi Shrutika Paunikar Mayank Raut Dhiraj Dave

Under the guidance of

Prof. K.G. Pande



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 2022-2023



Certified that the project report entitled "Zigbee Based Controlling and Monitoring System" has been successfully completed by Shruti Joshi, Shrutika Paunikar, Mayank Raut and Dhiraj Dave under the guidance of Prof. K.G. Pande in recognition to the partial fulfilment for the award of the degree of Bachelor in Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur.

Prof. K. G. Pande (Project Guide)

Dr. P. P. Palsodkar (Project Coordinator)

allothezo

Signature of External Examiner

Name: (RPethe)

Date of Examination:

Dr. R. D. Thakare (HOD, EE Dept.)



WI-FI CONTROLLED SURVEILLANCE ROBOT

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 Electronics Engineering

By Yash Parate Runal Yerpude Mohit Chandekar Aman Nankani Ankita Dongre Under the guidance of

Dr. Ankita Tijare



DEPARTMENT OF ELECTRONICS ENGINEERING Nagar Yuvak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur

1

University, Nagpur) NAGPUR – 441 110

Page 138 66165

Certified that the project report entitled "WIFI CONTROLLED SURVELLIANCE ROBOT" has been successfully completed by YASH PARATE, RUNAL YERPUDE, MOHIT CHANDEKAR, AMAN NANKANI, and ANKITA DONGRE under the guidance of Dr. Ankita Tijare in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



Dr. A. D. Tijare (Guide) Dr. Prachi P. Palsodkar (Coordinator)

Signature

Dr. R. D. Thakare (HoD, EE)

Signature of External Examiner: Name: Date of Examination:

Page 139 of 165

IOT Based Monitoring of Fruit Freshness Using Arduino Nano

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 Electronics Engineering By

> Soham Katare Shreyas Suryawanshi Dip Paliwal Hitesh Meshram Rushabh Humane

Under the guidance of Guide Prof Dr. R.D. Thakare (HoD Electronics Department YCCE)

Co-Guide Prof Dr. A. R. Maske (HoD Govt. Agriculture College, Nagpur)



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

2022-23

Certified that the project report entitled "IOT based Monitoring of Fruit Freshness using Arduino Nano" has been successfully completed by Soham Katare, Shreyas Suryawanshi, Dip Paliwal, Hitesh Meshram, Rushabh Humane under the guidance of Dr. R.D. Thakare and Dr. A.R.Maske of in recognition to the partial fulfillment for the award of the degree of B.E. Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University), Nagpur during session 2022-23.

Bibakan 2023

Prof Dr. R.D. Thakare (Guide) (Head of Department, Electronics Department)

(External Examiner)

Name: 02/06/22 Date: 02/06/22

Dr.P.P.Palsodkar/Dr.U.S.Ghodeswar (Project Coordinators)

Dr. /

(Co-Guide) Head Agril Engineering Section College of Agriculture, Nagpur



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

(Accredited 'A' Grade by NAAC) Hingna Road, Wanadongri, Nagpur - 441 110

DEPARTMENT OF MECHANICAL ENGINEERING (Project: 2022-23)

NOTE

DATE:12-07-2024

SUBJECT: Sanction of Expenditure regarding UG project for session 2023-24.

The following is the Expenditure incurred for completion of UG project for the session 2023-24.

SR.	PROJECT GUIDE	TITLE OF THE PROJECTS	TOTAL BILL AMOUT
1	Prof. V. M. Korde	Investigation of Drying curve of pearl millet, sorghum & green peas using fluidized bed dryer	10176
2	Prof. R. V. Adakane	Design of fabrication of automatic Cercals Weighing & Packaging Machine.	41475.00
3	Prof. R. V. Adakane	Automated Commod Cleaning System	16026.00
	5	Total	67677.00

FORNA 00.00

(Dr. J. P. Giri) HOD ME

Page 142 of 165

(V. M. KORDE) Co-Ordinator

www.vsinformatics.org info@vsinformatics.org +91-7020345125

INVESTIGATION OF DRYING CURVE OF PEARL MILLET, SORGHUM, GREEN PEAS BY USING FLUIDIZED BED DRYER

This major 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 Techonology in Mechanical Engineering

By

Vaibhav Tandulkar

Priyadarshan Munjewar

Shraddha Mishra

Under the guidance of

Prof. VIVEK KORDE



DEPARTMENT OF MECHANICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OFENGINEERING, (An autonomous institution affiliated to Rashtrasant Tukadoji MaharajNagpur University, Nagpur) NAGPUR – 441 110

2023-24

Page 143 of 165

INVESTIGATION OF DRYING CURVE OF PEARL MILLET, SORGHUM, GREEN PEAS BY USING FLUIDIZED BED DRYER

Submitted by

Vaibhav Tandulkar Priyadarshan Munjewar Shraddha Mishra

Under the guidance of

Prof. VIVEK 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

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OFENGINEERING, (An autonomous institution affiliated to Rashtrasant Tukadoji MaharajNagpur University, Nagpur) NAGPUR – 441 110

2023-24



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE OF APPROVAL

Certified that the Major-Project report entitled INVESTIGATION OF DRYING CURVE OF PEARL MILLET, SORGHUM, GREEN PEAS BY USING FLUIDIZED BED DRYER has been successfully completed by

S. No.	Roll No.	Registration No.	Name of Student
1	53	21030025	Priyadarshan Munjewar
2	163	21030081	Vaibhav Tandulkar
3	106	21030046	Shraddha Miishra

under the guidance of

Prof. VIVEK KORDE

in recognition to the partial fulfillment 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)



Prof. V. M. KORDE (Guide & Cordinator)

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

Devesh Knadg

ER. DEVESH KHADGI (Industrial Co-Guide)

Dr. J. P. GIRI (HOD, ME Dept.)

hoble Name & Signature of External Examiner: Date of Examination: 9,2

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Page 145 of 165

"DESIGN AND FABRICATION OF AUTOMATIC CEREALS WEIGHING AND PACKAGING MACHINE"

Submitted By **Akshay Patne Ashish Jivtode** Himanshu Gundawar Swayamdeep Bhange

Under the guidance of **Prof. Rakesh Adakane** Er. Rushabh Bokde



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



Certified that the project report entitled "Design and Fabrication of Automatic Weighing and Packaging Machine" has been successfully completed by Akshay Patne, Ashish Jivtode, Himanshu Gundawar, Swayamdeep Bhange under the guidance of Prof. Rakesh Adakane in recognition to the partial fulfillment 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).

Jocene

Prof. Rakesh Adakane

(Guide)

Er. Rushabh Bokde GET - Design Engineer Carraro Technology (Co-guide)

Dr. J.P. Giri

(HOD, ME Department)

Prof. V.M. Korde

(Project Co-ordinator)

Signature of External Examiner

Name

Date





DECLARATION

I / we certify that

a. The work contained in this project has been done by me under the guidance of my supervisor(s).

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 projectreport.

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, have taken permission from the copyright owners of the sources, whenever necessary.

Name of Student

- 1. Akshay Patne
- 2 Ashish Jivtode
- 3. Himanshu Gundawar
- 4. Swayamdeep Bhange

Signature of Student

Rathe Ajivtode Agmaph Demange



iv

DESIGN AND FABRICATION OF AUTOMATED COMMODE CLEANING MACHINE

Submitted by **Abhishek Dharme Ankit Kumar** Suvarsh Rajankar **Utkarsh** Patil

Under the guidance of

Prof. Rakesh Adakane And Er. Rushabh Bokde



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 2023-24





Certified that the project report entitled "Design and Fabrication of Automated Commode Cleaning Machine" has been successfully completed by Abhishek Dharme, Ankit Kumar, Suvarsh Rajankar and Utkarsh Patil under the guidance of Prof. Rakesh Adakane and GET-Design Engineer Rushabh Bokde in recognition to the partial fulfillment for the award of the degree of Bachelor in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University), Nagpur.

alar

PROF. RAKESH ADAKANE

(Project Guide)

Er. RUSHABH BOKDE GET – Design Engineer Carraro Technologies (Project Co-guide)

Dr. J. P. GIRI (HOD, ME Dept.)

PROF. V. M. KORDE

(Coordinator)

Name & Signature of External Examiner :

Date: 22/05/24



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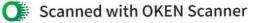
DECLARATION

We certify that

- a. The work in this project has been done by us under the guidance of my supervisor(s).
- 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.

Signature of the Students

Name of Student	Signature of the Student
Abhishek Dharme	Houne
Ankit Kumar	Ankit Kumar
Suvarsh Rajankar	K
Utkarsh Patil	T



Classification of Lung Diseases from CXR Images Using Transfer Learning

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 Technology in Computer Technology

By

Badal Wanjari Sanjana Verma Arya Deshmukh **Somesh Mallewar** Enrolment No: 20011045 **Enrolment No: 20010795** Enrolment No: 20010704 **Enrolment No: 20011071**

Under the guidance of

DR. RAKHI D. WAJGI



DEPARTMENT OF COMPUTER TECHNOLOGY

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441 110

2023-2024

Page 152 of 165



It is certified that the project report entitled "Classification of Lung Diseases from CXR Images Using Transfer Learning" has been successfully completed by Badal Wanjari, Sanjana Verma, Arya Deshmukh and Somesh Mallewar under the guidance of Dr Rakhi D. Wajgi in recognition to the partial fulfillment for the award of the degree of Bachelor of Technology in Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).

Dr. Rakhi Wajgi (Guide)

Prof. Smita Kapse (Coordinator)

Dr. Rakhi Wajgi (HoD)

Signature of External Examiner v.v. Deshpande Name: Date of Examination:

Page 153 of 165



MediSync Guardian: An IoT-Based Smart Medicine Box to Provide Smart Healthcare Services

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

0f

Bachelor of Technology in Computer Technology

By

Gunjan Balpande (09) Shravani Kale (25) Manthan Jadhav (48) Sahil Lawankar (63) Vikrant Jaunjale (73)

Under the guidance of

Prof. Smita R Kapse



DEPARTMENT OF COMPUTER TECHNOLOGY

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, (An autonomous institution affiliated to Rashtrasant Tikdoji Maharaj University Nagpur) NAGPUR – 441 110 2023-2024

Certified that the project report entitled "MediSync Guardian: An IoT-Based Smart Medicine Box to Provide Smart Healthcare Services" has been successfully completed by Gunjan Balpande, Shravani Kale, Manthan Jadhav, Sahil Lawankar, Vikrant Jaunjale under the guidance of Prof. S. R. Kapse in recognition to the partial fulfillment for the award of the degree of Bachelor of Technology in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

Prof. S. R. Kapse (Guide)

Prof. S. R. Kapse (Co-ordinator)

Signatu

Dr. R. D. Wajgi (HoD)

Signature of External Examiner: v. v. deshpande Name: Date of Examination: |8|5|24





"Adaptive Machine Learning(ML) Model for Driver Drowsiness **Detection using Developed ML Model**"

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 Technology in **Computer Technology**

By

Kshitij Mehatkar Aryan Baraskar

Tanmay Zerbade

Atharva Kawale

Under the guidance of

Prof. Roshan S. Bhanuse



DEPARTMENT OF Computer Technology

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441 110



Certified that the project report entitled "ADAPTIVE MACHINE LEARNING (ML) MODEL FOR DRIVER DROWSINESS DETECTION USING DEVELOPED ML MODEL" has been successfully completed by ATHARVA KAWALE, KSHITLJ MEHATKAR, ARYAN BARASKAR, TANMAY ZERBADE under the guidance of PROF. ROSHAN S. BHANUSE in recognition to the partial fulfillment for the award of the degree of Bachelor of Technology in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

Prof. Roshan S. Bhanuse

Guide

Prof. Sinita Kapse

Coordinator

Dr. Rakhi Wajgi

HOD

Signature of External Examiner: Sple Name: DV. P.N. Fole Date of Examination: 17105/2024

Multi-Disease Prediction using Ensemble Techniques with

Deep Learning Models

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

> > 0f

Bachelor of Technology in Information Technology

By Mr. Ayush Wankhede (42) Mr. Devansh Mahant (47) Mr. Aryan Waranashiwar (37) Mr. Parth Kakde (66) Mr. Saurabh Chopade (158) Ms. Pranjal Raut (18)

Under the guidance of

Prof. Mr. Abhay Yeole

Dr. Anushree Aserkar



DEPARTMENT OF INFORMATION TECHNOLOGY Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441 110

Certified that the Major Project entitled "MULTI-DISEASE PREDICTION USING ENSEMBLE TECHNIQUES WITH DEEP LEARNING MODELS" has been successfully completed by MR. AYUSH WANKHEDE, MR. DEVANSH MAHANT, MR. ARYAN WARANASHIWAR, MR. PARTH KAKDE, MR. SAURABH CHOPADE, MS. PRANJAL RAUT under the guidance of **Prof. Mr. Abhay <u>Yeole</u>** in recognition of the fulfillment for the award of the degree of Bachelors of Technology in Information Technology, Yeshwantrao Chavan College of engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj University) Nagpur.

Prof. Mr. Abhay Yeole Guide Assistant Professor Department of Information Technology YCCE, NAGPUR

Asera

Dr. Anushree Aserkar Co-Guide Assistant Professor Department of Mathematics YCCE, NAGPUR

Thaisona

Prof. Priyanka Jaiswal Project co-ordinator Department of Information Technology YCCE, NAGPUR

Dr. R. C. Dharmik

Head Of Department Department of Information Technology YCCE, NAGPUR

Signature of External Examiner Mark Date of Examination

SENTIMENT ANALYSIS

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

0f

Bachelor of Technology in Information Technology

By Janhvi Ambade (09) Pragati Likhar (17) Anurag Zawar (36) Himanshu Saurkar (57) Pawan Dawake (67) Swapnil Patil (163)

Under the guidance of Prof. M. K. Hadap



DEPARTMENT OF INFORMATION TECHNOLOGY Nagar Yuwak Shikshan Sanstha's YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441 110

2023-2024

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Certified that the Major Project entitled "SENTIMENT ANALYSIS" has been successfully completed by JANHVI AMBADE, PRAGATI LIKHAR, ANURAG ZAWAR, PAWAN DAWAKE, HIMANSHU SAURKAR, SWAPNIL PATIL under the guidance of Prof. M. K. Hadap in recognition of the fulfillment for the award of the degree of Bachelors of Technology in Information Technology, Yeshwantrao Chavan College of engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj University) Nagpur.

rof. M. K. Hadap

Guide Associate Professor Department of Information Technology YCCE, NAGPUR

Phungway

Prof. Priyanka Jaiswal Project Co-ordinator Department of Information Technology YCCE, NAGPUR

Dr. R. C. Dharmik Head Of Department Department of Information Technology YCCE, NAGPUR

Signature of External Examiner Name: Date of Examination:

Mastering the Art of Note-Taking : Convert YouTube Lectures into Comprehensive Notes with AI's Assistance and Audio-to-Transcript Integration

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

> > 0f

Bachelor of Technology in Information Technology

By Tanushree Deshmukh (23) Aasim Shaikh (31) Budharam Kumbhre (44) Himanshu Samrit (56) Musab Shaikh (61) Vedang Patil (79)

Under the guidance of

Prof. Chandrayani N. Rokde

Ms. Nidhi Patwardhan



DEPARTMENT OF INFORMATION TECHNOLOGY

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441 110

Certified that the Major Project entitled "Mastering the Art of Note-Taking : Convert YouTube Lectures into Comprehensive Notes with AI's Assistance and Audio-to-Transcript Integration" has been successfully completed by TANUSHREE DESHMUKH, AASIM SHAIKH, BUDHARAM KUMBHRE, HIMANSHU SAMRIT, MUSAB SHAIKH, VEDANG PATIL under the guidance of Prof. Chandrayani N. Rokde And Co-Guide Nidhi VEDANG PATIL under the fulfillment for the award of the degree of Bachelors of Patwardhan in recognition of the fulfillment for the award of the degree of engineering(An Technology in Information Technology, Yeshwantrao Chavan College of engineering(An

Prof. Chandrayani N. Rokde Guide Associate Professor Department of Information Technology YCCE, NAGPUR

Nidhi Patwardhan Co-Guide Taxonomy Analyst, Data Manager eBay San Francisco Bay Area

Prof. Priyanka Jaiswal Project co-ordinator Department of Information Technology YCCE, NAGPUR

Signature of External Examiner Name: Date of Examination

Dr. R. C. Dharmik Head Of Department Department of Information Technology YCCE, NAGPUR

DISEASE PREDICTION USING MACHINE LEARNING

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 Technology in Information Technology

By

Deepali Lanjewar (05)

Divita Meshram (06)

Amit Rathod (132)

Neha Khadse (14)

Harsh Sawal (50)

Under the guidance of

Dr. K. K. Bhoyar

Prof. Priti Matre



DEPARTMENT OF INFORMATION TECHNOLOGY

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

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

NAGPUR - 441 110

Certified that the Major Project entitled "Disease Prediction Using Machine Learning" has been successfully completed by Deepali Lanjewar, Divita Meshram, Neha Khadse, Harsh Sawal and Amit Rathod under the guidance of Dr. K. K. Bhoyar And Co-Guide Prof. Priti Matre in recognition of the fulfilment for the award of the degree of Bachelors of Technology in Information Technology, Yeshwantrao Chavan College of engineering(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj University) Nagpur.

Dr. K. K. Bhoyar Guide Professor Department of Information Technology YCCE, NAGPUR

Prof. Priti Matre Co-Guide Assistant Professor Department of Information Technology YCCE, NAGPUR

Kuismal

Prof. Priyanka Jaiswal Project co-ordinator Department of Information Technology YCCE, NAGPUR

Dr. R. C. Dharmik Head of Department Department of Information Technology YCCE, NAGPUR

Signature of External Examiner 777 Name: Date of Examination:

Nagar Yuwak Shikshan Sanstha's



Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) Hingna Road, Wanadongari, Nagpur-441110

NAAC Accredited with 'A++' Grade Ph. : 07104- 295083, 295085 Website : www.ycce.edu , Email : principal@ycce.edu

Declaration by the Head of the Institution

I hereby declare that the data, information and support documents attached herewith are genuine and correct to my knowledge.

Ceru

Dr. U.P. Waghe Principal Principal Yeshwantrao Chavan College of Engineering Wanadongri Hingna Road, NAGPUR-441110

