

BHARATI VIDYAPEETH'S **COLLEGE OF ENGINEERING, KOLHAPUR**

Accredited by NAAC With 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur Near Chitranagari, Kolhapur - 416013 (MS)

DTE INSTITUTE CODE: EN-6288

Dr. Patangrao Kadam Tel.No.: (0231) 2638893, 2638894, Fax: 2636050 M.A., LL. B., Ph. D.

FOUNDER CHANCELLOR

Web: http://coekolhapur.bharatividyapeeth.edu E- mail: coekolhapur@bharatividyapeeth.edu

PRINCIPAL Dr. Vijay Ghorpade M.E., Ph. D. (Computer)

NAAC SSR CYCLE-2



Criterion 6	Governance, Leadership and Management			
Key Indicator 6.4	Financial Management and Resource Mobilization			
6.4.1 Institution has st	rategies for mobilization and optimal utilization of resources and			
funds from vario	us sources (government/ non- government organizations) and it			
conducts financia	al audits regularly (internal and external)			

Academic Year: 2017-18



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PRINCIPAL

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Shivaji University, Kolhapur

RESEARCH SENSITIZATION SCHEME FOR COLLEGE STUDENTS

Application for the financial support to research project (to be submitted to the Lead college)

l.	Name of the college/Institute	Bharati Vidyapeeth's College of engineering, Kolhapur.
2.	Names of the students (upto four)	i)Mr. Vishwajeet Koli. ii)Mr. Aniket Desai. iii)Miss.Devayani Bhosale. iv)Miss. Swarupa Powar.
3.	Title of the project	"UNDERWATER ROBOT USING RASPBERRY-PI"
4.	Area of research project/subject	ROBOTICS
5.	Details of the research project i)Problems and it's importance	
	ii)Objectives	To be attached on separate pages
	iii)Methodology	
	iv)Projected output-	
	v)Financial requirements(up to Rs.10000/-)	Rs. 9800/-
6.	Any other information, if any	To be attached on separate page(s)

Name and signature of the project advisor

PROF. A.H.TIRMARE

Names and signature of students

i)Mr. Vishwajeet Koli V.SK

ii)Mr.Aniket Desai

iii)Miss.Devayani Bhosale 3005ale

iv)Miss.Swarupa Powar Sowas

Forwarded through Principal/Directors

Joseph Resport

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PATENT OFFICE INTELLECTUAL PROPERTY BUILDING 5.M. Road, Actop Hill, Mumbai-400 037 Te No. (091)(022) 24137701, 24141026 FAX No. 02 24130387

E-mail: mombai patent@nic.in Web Site: www.ipindia.govin

Docket NO: 47976

BHARATI VIDYAPEETI'S COLLEGE OF ENGINEERING, KOLHAPUR NEAR CHITRA NAGAPI, MOREWADI, KOLHAPUR, MAHARASHTRA, INDIA - 416 013.

GOVERNMENT OF INDIA



Date/Time: 2018/10/08 15:10:45 Agent Number:

Sr. No.	CBR Number	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	22529	ORDINARY APPLICATION Pages:-21 , Claims:-6, Drawings:-5, Abstract:- 1, Claims pages:-1	201821038013	"INTELLIGENT COIN SEPARATOR"	8800	8800
2		E-2/2027/2018-MUM	201821038013	Form2	0	0
3		E-3/12279/2018-MUM	201821038013	Form3	0	0
4		E-5/1637/2018-MUM	201821038013	Form5	0	0
Total /	Amount				8800	8800

Received a sum of Rs. 8800 (Rupees Eight Thousand Eight Hundred only) as under

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash	_			8800

Note: This is electronically generated receipt hence no signature required.

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PROJECT REPORT

ON.

"INTELLIGENT MODULAR ROBOTIC VEHICLE FOR DEFENSE AND DISASTER MANAGEMENT"

Submitted to,

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by,

Miss. Vibhute Amruta S.

Miss. Jadhav Tejaswini S

Mr. Kadam Manik H.

Mr. Jadhav Vaibhav B.

Mr. Jadhav Somesh S.

Under the Guidance of,

Asst. Prof. V. T. DIDAKE

DEPARTMENT OF MECHANICAL ENGINEERING



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,

KOLHAPUR.

(2017-18)

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the following students of B.E. (Mechanical) class,

Miss. Vibhute Amruta S.

Miss. Jadhav Tejaswini S

Mr. Kadam Manik H.

Mr. Jadhav Vaibhav B.

Mr. Jadhav Somesh S.

Have satisfactorily completed the project entitled "Intelligent Modular Robotic Vehicle for Defense and Disaster Management" during the academic year 2017-18 in partial fulfillment of the requirement for "BACHELOR OF MECHANICAL ENGINEERRING" Degree of SHIVAJI UNIVERSITY, KOLHAPUR.

Asst. Prof. V. T. Didake

Project Guide

Prof. R. S. Mithari

Project coordinator

Prof. S. J. Hadam

Head of Department

(External Examiner)

Dr. V. R. Ghorpade

Principal



Manufacturers and Dealers in Robotic Kits, CNC's, 3D Printing, IOT, Quadcopters and Aeromodelling Electronic Components, Microcontroller Kits, Raspberry Pi and Automation Equipments

REF NO: ROF STNIT-IN OIT.

SPONSORSHIP LETTER

Date: 15 11 18

This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyappeeth's College Of Engineering, Kolhapur are sponsored for following project in our organization for the academic year 2017-2018.

Title of the project: "Intelligent Modular Robotic Vehicle for Defense and Disaster Management"

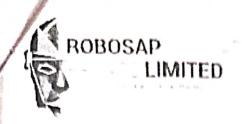
Sl. no	Name
1)	Vaibhav Bhausaheb Jadhav
2)	Manik Hanamant Kadam
3)	Amruta Shivling Vibhute
4)	Tejaswini Shahaji Jadhav
5)	Somesh Satish Jadhav

Terms and conditions:

1) Students are expected to work sincerely and reguraly on the project to complete the same in in stipulated time

2) All the required facilities and equipments to carry out the project work would be provided by robosap.com.

Seal and Signature



Manufacturers and Dealers in Robotic Kins, Chic s. 3D Printing, 101, Guadcopters and Aeromodallisig Electronic Components, Microcontroller Kins Naspherry Pr and Automation Equipments

Date:

To.

Head of Department,

Mechanical Engineering.

B.V.C.O.E. KOLHAPUR,

Sub: Cost estimation letter for sponsored project INTELLIGENT MODULAR ROBOTIC VEHICLE FOR DEFENSE AND DISASTER MANAGEMENT

Dear Sir,

This is reference to your letter. We are pleased to accept your letter and provide permission for doing project. As per the policy we provide good resource and material for successful completion of project.

Sr. No.	Resources/Material	Cost
1	Components	18980
2	Fibrication	1500
3	Other Expenses	1000
	Tenal	21480

We hereby approved application from student and further activities of below mentions students from department of mechanical. The names of students are:

- 1. MANIK HANAMANT KADAM
- 2. SOMESH SATISH JADHAV
- 3. VAIBHAV BHAUSAHEB JADHAV
- 4. TEJASWINI SHAHAJI JADHAV
- 5. AMRUTA SHIVLING VIBRUTE

Productions Private Linear Managing Oirector

Deager

Seal and Signature



Manufacturers and Dealers in Robotic Kits, CNC's, 3D Printing, IOT, Quadcopters and Aeromodelling Electronic Components, Microcontroller Kits, **Raspherry Pi and Automation Equipments**

REF No: ROB/FIN/17-18/038

Date: 21/3/18

To, Head Of Department, Mechanical Engineering B.V.C.O.E, Kolhapur

Subject: Certificate of Completion of Project This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyappeeth's College Of Engineering, Kolhapur have completeed the project titled "Intelligent Modular Robotic Vehicle for Defense and Disaster Management" in stipulated time with satisfactory performance.

	performance.					
SI. no	Name			7.		
1)	Vaibhav Bhausaheb Jadhav			 		
2)	Manik Hanamant Kadam	,		 	 	
3)	Amruta Shivling Vibhute		. :			. 1.
4)	Tejaswini Shahaji Jadhav					
5)	Somesh Satish Jadhav		-			

Managina Private Line

Seal and Signature

A

PROJECT REPORT

ON

"DESIGN, DEVELOPMENT AND TESTING OF VARIABLE DAMPING SUSPENSION SYSTEM"

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by

Mr. Sawant Ashish Babaso.

Mr. Kale Manik Ravindra.

Mr. Mali Ashish Subhash.

Mr. Shinde Akshaykumar Anandrao.

Mr. Rajgolikar Dhruwankur Govind.

Under the Guidance of

Prof.M. S. Kulkarni.

DEPARTMENT OF MECHANICAL ENGINEERING



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

(2017-18)

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the project report entitled DESIGN, DEVELOPMENT AND TESTING OF VARIABLE DAMPING SUSPENSION SYSTEM In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has carried out the work under my supervision and guidance, during academic year 2017-2018.

(1'ums.

Prof. M. S. Kulkarni

Project Guide

02/04/20\8 Prof. R. S.Mithari

Project Coordinator

Prof. S.J. Kadam

(Head of Department)

Dr. V.R.Ghorpade

Principal

(External Examiner)



566.7. Behind Kelhapur Axel, M. i. D. C., Shiroli (P), Kelhapur - 416.122, Mob. 9922497859

Rel Ho. 110

Date 15.01/2018

10

Head of Department.

Dept of Mechanical Engineering.

BACOI Kolliapur,

Sub-Approval letter to sponsor-project "DESIGN, DEVITOPMENT AND TESTING OF VARIABLE DAMPING SUSPENSION SYSTEM"

Respected Sir,

This is reference to your letter, we are pleased to accept your letter and provide permission for doing project at our concern for the period of 11th August 2017 to 15.7 March 2018. As per the policy we will provide good resource and material for successful completion of project. We hereby approved the application from students for further activities of below mentioned students from Department of Mechanical Engineering B. V. C. O. L. Kolhapur.

Name of Project Guide and students are:-

Project Guide: Prof. M. S. Kulkarni.

Project Member

Kale Manik Rayindra

Sawant Ashish Babaso

Shinde Akshaykumar A

Mah Ashish Subhash

Rajgolikar Dhruwankur Govind

We are wishing them "ALL THE BEST" to start the project

· Will



595/2. Behind Kolhapur Axel, M. I. D. C., Shiroli (P), Kolhapur - 416 122. Mob.: 9922497859

Ret fio. 116

Date: 15 03:2018

In

Head of Department.

Dept. of Mechanical Engineering.

BVCUL Kelkapur. ,

*ub- Expressionare letter for project "Design.Development and Testing of Variable Dumping Suspension by stem"

Respected Sir.

This is reference to the above mentioned project related estimated cost. We already permitted for doing at our concern for the period of 15° Jan 2018 to 15° March 2018. As per the policy we have provided good resource and material for successful completion of project.

47.30	Resources Material cost	Amount in RS
3 ,	Raw Material	10800
2	Machining Cost	8299
3	Fatrication	1900
-	Assembly	1400
5	Bruch werk	900
6	Motor 2	2459
	Piston Seel 1	610
16	Bearings 5	2600
iy .	Tring 1	800
179	Linear Slide 1	5400
	Total	34960

Project Member-Rule Mank Rayindra

Sanada Ashish Babasu

Mali Ashish Subhash

Shinds Alshoy Lumar A.

Rajgol kar Dirumankur Govind

· Intil

A FINAL PROJECT REPORT ON

" HUMAN POWERED FORKLIFT"

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by Mr. Toraskar Rahul R.

Mr. Vangutte Onkar V.

Mr. Patil Onkar C.

Miss. Rakshe Sujata S.

Miss. Kadam Jyoti Y.

Under the Guidance of Prof. S. P. JARAG

DEPARTMENT OF MECHANICAL ENGINEERING



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

(2017-18)

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

DEPARTMENT OF MECHANICAL ENGINEERING





This is to certify that the final project report entitled

"HUMAN POWERED FORKLIFT"

Is a bonafide work of Mr. Toraskar Rahul R, Mr. Vangutte Onkar V, Mr. Patil Onkar C, Miss. Rakshe Sujata S, Miss. Kadam Jyoti Y. In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has carried out the work under my supervision and guidance, during academic year 2017-2018.

Prof. S. P. Jarag

Prof. R. S. Mithari

Project Guide

Project Coordinator

Prof. S. J. Kadam

(Head of Department)

(External Examiner)

r. V. R. Ghorpade

Principal

VARSHA INDUSTRIES

ALL TYPES OF PRECISION ENGINEERING WORKS

A-160, Five star mide, Kagal. Tal-hatkanagle, Dist-kolhapur.

Email-:Varsha.kagal@gmail.com. Mobile-:8698846487.

DATE: 10 07 2017

REF.VI 2017-18 243

LETTER OF SPONSORSHIP

Concern to.

Student Name- 1) Mr. Toraskar Rahul Rajaram.

- 2) Mr. Vangutte Onkar Vijay
- 3) Mr. Patil Onkar Chittranjan
- 4) Miss Rakshe Sujata Sanjay
- 5) Miss. Kadam Jyoti Yashwant

College Name: Bharti Vidyapeeth's College of Engineering, Kolhapur

Project Title "Human Powered Forklift"

I am very glad to agree that I am going to sponsor above student's project which is very impressive and useful to material handling equipment sector.

If you have any queries feel free to contact me.

Thanks & Regard.

SEAL

M/s. Varsha Industries

M/s. Varsha Industries

Plot No. A/160 Kagal-Hatkanangale

Five Star M.I.D.C. Kagal.

COST ESTIMATION

SR.NO.	MATERIAL	QTY.	COST
1.	Chain Sprocket	2	800
2.	Chain	l	500
3.	M.S. Plate(5*25)	l	750
4.	Sheet(base)	1	750
5.	Fabrication	1	2000
6.	Machining +colouring	,	1500
7.	M.S. Rod	1	500
8.	Fasteners		300
9.	Front wheel	2	1000
10.	Rear wheel	2	700
11.	Handles	2	400
12.	Bearing	8	1500
13.	Pulleys	2	1200
	TOTAL		11900

Table no. 27

A

PROJECT REPORT

ON

"GROUNDNUT PODS SEPARATOR & CUTTER"

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by

Mr. Hankare Shubham Dilip

Mr. Kolekar Amar Vitthal

Mr. Kherade Aniket Rajendra

Mr. Kumbhar Omkar Dattatray

Mr. Nandivale Avinash Laxman

Under the Guidance of

Prof. S.B.Kamble

DEPARTMENT OF MECHANICAL ENGINEERING



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

(2017-18)

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the final project report entitled

"GROUNDNUT PODS SEPARATOR & CUTTER"

Is a bonafide work of Mr. Hankare Shubham Dilip, Mr. Kolekar Amar Vitthal, Mr. Kherade Aniket Rajendra. Mr. Kumbhar Omkar Dattatray, Mr. Nandivale Avinash Laxman. In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has carried out the work under my supervision and guidance, during academic year 2017-2018.

Prof. S. B. Kamble

Project Guide

Project Coordinator

Prof. S. J. Kadam

(Head of Department)

(External Examiner)

Dr. V. R. Ghorpade

Principal

Kadsiddheshwar Swamiji काडिसध्देश्वर स्वामीजी



श्री क्षेत्र सिध्दगिरी महासंस्थान Shree Kshetra Siddhagiri Mahasansthan

Date: 4 10 17

Principal,

Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject :- Sponsorship for final year project of engineering.

Respected Sir,

We are pleased to inform you that our organization "Kaneri Math Head Office, Kolhapur" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

- 1) Hankare Shubham Dilip
- 2) Kolekar Amar Vitthal
- 3) Kherade Aniket Rajendra
- 4) Kumbhar Omkar Dattaray
- 5) Nandivale Avinash Laxman

Considering project requirements of the students, it might require huge expenses to be spent on it. After completing the project we shall consider a demonstration of the project and if it fits to our organization's requirements we shall buy this project from students in the future. The expenses provided by us should be spent on the study materials, stationary and instruments required for establishing setup of the project.\

Thanking You.

Toi. A.33 * Regard

etra Siddhagiri Mahasansthan, Kaneri Math, Karveer, Kolhapur-416234 Tel.: 0231 2671659 / 2684100 • Mumbai : 022 28762070 २२३१ २६७१०५९ / २६८४१०० • मुंबई : ०२२ २८७६२०७० • E-Mail : siddhagirimath@gmail.com • Website : siddhagirimath.org

Kadsiddheshwar Swamiji काडिसहदेश्वर स्वामीजी



श्री क्षेत्र सिध्दगिरी महासंस्थान Shree Kshetra Siddhagiri Wahasansthan

Date: 29/8/2018

LETTER OF EXPENDITURE

Project Title: - "Groundnut Pods Separator and Cutter"

During the manufacturing of Groundnut Pods Separator and Cutter total

SR.NO.	MATERIAL	QTY.	COST
	Square pipe	1	500
2.	Shaft	4	1000
3.	Pulleys	2	1500
4.	Sheet(base)	1	500
5.	Bearing	7	2200
6.	Machining + coloring	1	1000
7.	Nut Bolt	5	60
8.	V belt	1	300
9.	Worm and worm wheel	1	1500
10.	Spoke wheel	1	400
11.	Cutter Blade	3	700
12.	Coupling	1	500
13.	Motor	1	2000
14.	Fabrication	1	2000
TOTAL		30	14160

Thanks & Regard

SEAL



A

PROJECT REPORT

ON

"DESIGN AND DEVLOPEMENT OF ALL TERRAIN VEHICLE"

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by

Mr. Khot Akshay B.

Mr. Patil Gurunath S.

Mr. Patil Mohanish M.

Mr. Mahekar Kunal J.

Mr. Mahekar Vaibhay J.

Under the Guidance of

Prof. S. P. JARAG

DEPARTMENT OF MECHANICAL ENGINEERING

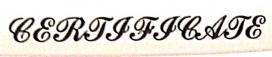


BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

(2017-18)

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

DEPARTMENT OF MECHANICAL ENGINEERING





This is to certify that the final project report entitled

"DESIGN AND DEVLOPEMENT OF ALL TERRAIN VEHICLE"

Is a bonafide work of Mr. Khot Akshay Bajrang. Mr. Patil Gurunath Sadashiv. Mr. Patil Mohanish Maruti. Mr. Mahekar Kunal Jaywant. Mr. Mahekar Vaibhav Jaywant. In the Mohanish Maruti. Mr. Mahekar Kunal Jaywant. Mr. Mahekar Vaibhav Jaywant. In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has engineering out the work under my supervision and guidance, during academic year 2017-2018.

Prof. S. P. JARAG

Prof. R. S. Mithari

Project Coordinator

Project Guide

Dr. V. R. Ghorpade

Prof. S. J. Kndam (Head of Department)

External

25

SHREWANT ENGINEERING WORKS

Plot No 423/50 Panjarpol Industrial Estate Kolhapur

Agricultural Impliments & Repairing of All Type Job Works

ReINO SEW/4235

Cale 15/03/2018

To,

Head Of Department,

Mechanical Engineering,

B.V.C.O.E. KOLHAPUR.

Sub: Cost estimation letter for sponsored Project Design And Development of All Terrain

Vehicle

Dear sir,

This is reference to your letter dated on 02/08/2017. We are pleased to accept your letter and provide permission for doing project from 09/09/2017 to 27/02/2018. As per the policy we provide good resource and material for successful completion of project.

SR NO	RESOURCES/MATERIAL	COST
I	COMPONENTS	45000 +
2	FABRICATION	15000-
3	OTHER EXPENCES	10000-
	TOTAL	700001

We hereby approved application from student and further activities of below mentions students from department of mechanical. The names of students are:

AKSHAY BAJRANG KHOT

KUNAL JAYWANT MAHEKAR

VAIBHAV JAYWANT MAHEKAR

MOHANISH MARUTI PATIL

GURUNATH SADASHIV PATIL

We are wishing you for the project.

Shrikant Engineering Works

SHRIKANT ENGINEERING WORKS

Proprietor

Proprieter

(Mr. Amit Sutar)

M 9527645004

SHRIKANT ENGINEERING WORKS

Plot No 423/50 Panjarpol Industrial Estate Kolhapur

Agricultural Impliments & Repairing of All Type Job Works

Rel No. SEW 42350

Date: 30/2/2018

To,
Head Of Department,
Mechanical Engineering,
B.V.C.O.E. KOLHAPUR.

Sub: Certificate of Completion of Project.

This is certify that the following final year engineering students of B.E. MECHANICAL course of "Bharati Vidyapeeth College of Engineering, Kolhapur" has successfully completed the project in given time period.

TITLE- Design And Development of All Terrain Vehicle.

The names of students are:

AKSHAY BAJRANG KHOT
KUNAL JAYWANT MAHEKAR
VAIBHAV JAYWANT MAHEKAR
MOHANISH MARUTI PATIL
GURUNATH SADASHIV PATIL

Shrikant Engineering Works

SHRIKANT(ÉNGINEERING WORKS

Propreiter

(Mr. Amit Sutar)

A

PROJECT REPORT

ON

"AUTOMATIC BRAKING SYSTEM & FUEL FLOW MEASUREMENT DEVICE"

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by,

Mr. Pawar Sachin Balasaheb.

Mr. Patil Dnyaneshwar Sahebrao.

Mr. Rawool Nitesh Narayan.

Mr. Agalave Dhuladev Raghavendra.

Mr. Sarak Ramchandra Gorakh.

Under the Guidance of

Asst. Prof. M.S.Kulkarni

DEPARTMENT OF MECHANICAL ENGINEERING



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

(2017-18)

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR.

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the following students of B.E. (Mechanical) class,

Mr.Pawar Sachin Balasaheb.

Mr. Patil Dnyaneshwar Sahebrao.

Mr. Rawool Nitesh Narayan.

Mr. Agalave Dhuladev Raghavendra.

Mr. Sarak Ramchandra Gorakh.

Have satisfactorily completed the project entitled "AUTOMATIC BRAKING SYSTEM & FUEL FLOW MEASUREMENT DEVICE" during the academic year 2017-18 in partial fulfillment of the requirement for "BACHELOR OF DEGREE OF MECHANICAL ENGINEERRING" Examination of SHIVAJI UNIVERSITY, KOLHAPUR. The matter presented in this report has not been submitted for award of any other degree or diploma to the best of my knowledge.

(External Examiner)

Prof. M.S.Kulkarni

Prof. R. S. Mithari

Project Guide

Project Co-ordinator

Prof. S. J. Kadam

Head of Department

Dr. R. Ghorpade

29



Manufacturers and Dealers in Robotic Kits, CNC's, 3D Printing, 10T, Quadcopters and Aeromodelling Electronic Components, Microcontroller Kits, Raspberry Pi and Automation Equipments

REF No: 13- 5. 17N / = 11/ 4 1

Date: 1 - 3 13

To, Head Of Department, Mechanical Engineering B.V.C.O.E, Kolhapur

Subject: Certificate of Completion of Project
This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyappeeth's College Of Engineering, Kolhapur have completeed the project titled "Automatic Braking System and Fuel Flow Measurement Device" in stipulated time with satisfactory performance.

Sl. no	Name	
1)	Sachin Balasaheb Pawar	
2)	Ramchandra Gorakh Sarak	
3)	Dnyanshwar Sahebrao Patil	
4)	Dhuladev Raghvendra Agalave	
5)	Nitesh Narayan Rawool	

Rohit Kadam Findle Limite Managing Director

Seal and Signature

Ø www.robosap.in

Ø Yarnal Road, Nipani

Ø +91 9902071516

Ø info@robosap.in



Manufacturers and Dealers in Robotic Kits, CNC's, 3D Printing, IOT, Quadcopters and Aeromodelling Electronic Components, Microcontroller Kits, Raspberry Pi and Automation Equipments

REF No: 1 4/4] N/17 18/02 2

Date

To,

Head Of Department,

Mechanical Engineering,

B.V.C.O.E. KOLHAPUR.

Sub: Cost estimation letter for sponsored Project Design Development And Manufacturing of Automatic Braking System And Fuel Flow Measurement

Dear sir,

This is reference to the your letter dated on 02/08/2017. We are pleased to accept your letter and provide permission for doing project from 09/09/2017 to 27/02/2018. As per the policy we provide good resource and material for successful completion of project.

SR NO	RESOURCES/MATERIAL	COST
1	COMPONENTS	16000
2	FABRICATION	5000
3	OTHER EXPENCES	4000
	TOTAL	25000

We hereby approved application from student and further activities of below mentions students from department of mechanical. The names of students are:

- 1. Sachin Balasaheb Pawar
- 2. Dnyaneshwar Sahebrao Patil
- 3. Ramchandra Gorakh Sarak
- 4. Dhuladev Raghavendra Agalave
- 5. Nitesh Narayan Rawool

For Round Rolling Read Linguid Managing Director

Directora

Seal and Signature



Manufacturers and Dealers in Robotic Kits, CNC's, 3D Printing, IOT, Quadcopters and Aeromodelling Electronic Components, Microcontroller Kits, Raspberry Pi and Automation Equipments

REF No. 8 4 /1 1 11/10 18/02 2

Date

SPONSORSHIP LETTER

This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyappeeth's College Of Engineering, Kolhapur are sponsored for following project in our organization for the academic year 2017-2018.

Title of the project: "Automatic Braking System and Fuel Flow measurement Device"

SI. no	Name
1)	Sachin Balasaheb Pawar
2)	Ramchandra Gorakh Sarak
3)	Dnyanshwar Sahebrao Patil
4)	Dhuladev Raghvendra Agalave
5)	Nitesh Narayan Rawool

Terms and conditions:

- 1) Students are expected to work sincerely and reguraly on the project to complete the same in in stipulated time
- 2) All the required facilities and equipments to carry out the project work would be provided by robosap.com.

	for	Rotaces becausions Priorito Limited
de contract		Managing Director

Directors

Seal and Signature

www.robosap.in	Q Yarnal Road, Nipani	O +91 9902071516	info@robosap.in
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Apex Technologies

Outward Number:- 2 Date :- 19-7-2017

To,

The Principal

Bharati Vidyapeeth's College of Engineering, Kolhapur

Subject: Financial Assistance for the project titled "Detecting Experts on Quora"

Dear Sir,

This is to inform that our company is sponsoring the final year student project of Computer Science and Engineering department which is titled "Detecting Experts on Quora" with maximum amount/ expenses of Rs 25, 000/- (Rs. Twenty Five Thousand Only).

The sponsorship will be in terms of software's, devices, high testing and expert resources or workshop needed for project. The sanctioned amount is to be utilized for the above project and during the academic year 2017-2018 only. The duration for complication of above project will be one year.

Kindly allow the following group of students to work under the Guidance/Principal investigator of Mr. S.B.Patil Assistant Professor Bharati Vidyapeeth's College of Engineering, Kolhapur. Name of Students:

- 1. Mr. Nishant S Vhatkar
- 2. Mr.Tejas S Mudolkar
- 3. Mr.Prathamesh D Nadgouda
- 4. Ms. Ashwarya R Patil
- 5. Mr Unmesh S Phadnis

Kindly consider letter as sanction letter, this is for your kind information and further needful action

Thanks and Regards

For Apex Technologies

Name of Director (Managing Director)

"DETECTING EXPERTS ON QUORA"

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the degree of

Bachelor of Engineering

In

Computer Science and Engineering

By

NAME	ROLL NO
Mr. Nishant S. Vhatkar.	65
Mr. Tejas S. Mudholkar.	66
Mr. Prathamesh D. Nadgouda.	67
Ms. Aishwarya R. Patil.	68
Mr. Unmesh S. Phadnis.	69

UNDER THE GUIDENCE OF

Mr. S. B. Patil.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BHARATI VIDYAPEETH COLLEGE OF ENGINEERING KOLHAPUR.

Year 2017 - 2018



CERTIFICATE

This is to certify that, project report entitled, "DETECTING EXPERTS ON QUORA" submitted by Mr. Nishant S. Vhatkar, Mr. Tejas S. Mudholkar, Mr. Prathamesh D. Nadgouda, Miss. Aishwarya R. Patil, Mr. Unmesh S. Phadnis are confides work carried out by them under the guidance of Mr. S. B. Patil and it is approved for partial fulfillment of the requirement of the Shivaji University, Kolhapur for the award of the Bachelor's Degree of Engineering in Computer Science Engineering.

Place: Kolhapur

Mr. S. B. Patil

GUIDE

External examiner

Date: 13 04 18

Mrs. S. M. Mulla

HOD

Dr. V.R Ghorpade

PRINCIPAL

Apex Technologies

Outward number:-2

Date:-19-07-17

To.

Principal,

Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject:-Sponsorship for final year project of engineering.

Respected Madam,

We are pleased to inform you that our organization "Apex Technologies" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project. Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

- 1. Mr. Nishant S. Vhatkar
- 2. Mr. Tejas S. Mudholkar
- 3. Mr. Prathamesh D. Nadgouda.
- 4. Miss. Aishwarya R. Patil.
- 5. Mr. Unmesh S. Phadnis

Apex Technologies

Project Name: Expert detection on Quora.

Quora is a fast growing social Q&A site where users create and answer questions, and identify the best answers by upvotes and downvotes with crowd wisdom. Unfortunately, little is known about properties of experts and non-experts and how to detect experts in general topics or a specific topic. To fill the gaps, in this manuscript we (1) analyze behaviors of experts and non-experts in five popular topics; (2) propose user activity features, quality of answer features, linguistic features and temporal features to identify distinguishing patterns between experts and nonexperts; and (3) develop statistical models based on the features to automatically detect experts. Our experimental results show that our classifiers effectively identify experts in general topics and a specific topic, achieving up to 97 % accuracy and 0.987 AUC.

Considering project requirements of the students, it might require huge expenses to be spent on it. After completing the project we shall consider a demonstration of the project and if it fits to our organization's requirements we shall buy this project from students in the future. The expenses provided by us should be spent on the study materials, stationary and instruments required for establishing setup of the project.

Thanking You.

Regards,

FOR APEX TECHNOLOGIES

Sign and stamp of Director

(Managing Director)

Apex Techonologies

Outward Number:-2

Date: - 03-03-18

To,

Principal,

Bharati Vidyapeeth's College Of Engineering,

Kolhapur.

Subject:-Completion of Final Year Project of Engineering.

Respected Sir,

We are pleased to inform you that our organization APEX TECHNOLOGIE'S, has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

- 1. Nishant Suhas Vhatkar.
- 2. Prathamesh Deepak Nadgouda.
- 3. Tejas Satish Mudholkar.
- 4. Aishwarya Rajendra Patil.
- 5. Unmesh Sunil Phadnis.

"DETECTING EXPERTS FORM QUORA"

Considering project requirements of the students, in might require huge expenses to be spent on it. After completing the project we shall consider a demonstration of the project and if it is fits to our Organization's requirements we shall buy this project from students in the future. The expenses provided by us should be spend on the study materials, stationery and instruments required for establishing setup of the project.

Sign and Stamp of Directo

(General Manager)



Global Eye Technology 4th Floor Tirth Enclave Rajarammpuri 11th Lane Bus Route Near Renuka Mandir ,Kolhapur -416 008

Office: 0231-2646464 Mob: +91 9604755733 info@globaleyetechnogy.com

To,

The Principal

Bharati Vidyapeeth's College of Engineering, Kolhapur

Subject: Financial Assistance for the project titled "Mobimed The Health Assistant"

Dear Sir,

This is to inform that our company is sponsoring the final year student project of Computer Science and Engineering department which is titled ""Mobimed The Health Assistant"" with maximum amount/ expenses of Rs.15, 000/- (Rs. Fifteen Thousand Only).

The sponsorship will be in terms of software's, devices, high testing and expert resources or workshop needed for project. The sanctioned amount is to be utilized for the above project and during the academic year 2017-2018 only. The duration for complication of above project will be one year.

Kindly allow the following group of students to work under the Guidance/ Principal investigator of Mr. S. B. Takmare Assistant professor Bharati Vidyapeeth's College of Engineering, Kolhapur.

Name of Students:

- 1. Mr. Shesharaj K Gore
- 2. Ms Priyanka P Kulkarni
- 3. Mr.Shailesh S Jadhav
- 4. Ms. Pooja S Manre
- 5. Ms. Vaibhavi P Rendalkar

Kindly consider letter as sanction letter, this is for your kind information and needful

ETE CHAOLO

S3hore

Soham S.More Technical Director

MOBIMED: THE HEALTH ASSISTANT

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the degree of

Bachelor of Engineering

In

Computer Science and Engineering

By

Roll No.	Student's Name
6	Shesharaj K. Gore.
7	Priyanka P. Kulkarni.
8	Shailesh S. Jadhav.
9	Pooja S. Mane.
10	Vaibhavi P. Rendalkar.

Under the guidance of

Mr. S. B. Patil



Department of Computer Science and Engineering

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

YEAR: 2017-18





BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the project report entitled "MobiMed: The Health Assistant" submitted by Mr. Shesharaj K. Gore, Ms. Priyanka P. Kulkarni, Mr. Shailesh S. Jadhav, Ms. Pooja S. Mane, Ms. Vaibhavi P. Rendalkar for the partial fulfillment of the requirement for the award of degree of Bachelor of Engineering in Computer Science & Engineering to the Shivaji University.

This report is record of student's team work carried out by them under my supervision and guidance.

Date:

Place:

Quide

Mr. S. B. Patil

Mrs. S. M. Mulla

Principal

Dr.V.R Ghorpade



Global Eye Technology

4th Floor, Tirth Enclave, Rajarampuri 11th Lane, Bus Route, Near Renuka Mandir, Kolhapur - 416 008. Office: 0231-2646464 Mob: +91 9604755733 info@globaleyetechnology.com

Date:

Ref: DOC/20172018/02

Date: 17-07-2017

To.

Principal,

Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject:- Sponsorship for final year project of engineering.

Respected Sir,

We are pleased to inform you that our organization "Global Eye Technology, Kolhapur" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received

- 6. Gore Shesharaj K.
- 7. Kulkarni Priyanka P.
- 8. Jadhav Shailesh S.
- 9. Mane Puja S.
- 10. Rendalkar Vaibhavi P.

We are glad to confirm our interest in the project named "Mobi Med" for the above listed students of your esteemed institute. This application helps to communicate between doctors and common peoples that will help doctors to keep the complete track on the patient activities.

The expenses provided by us should be spent on the study materials, stationary and instruments

Thanking You,

Soham S More.





GLOBAL EYE TECHNOLOGY

4th Floor, Tirth Enclave Rajarampuri 11th Lane Kolhapur-416008 Website: www.globaleyetechnology.com, Email: info@globaleyetechnology.com

Ref: DOC/20172018/05

Date: 04-04-2018

PROJECT COMPLETION LETTER

To.

Principal,

Bharati Vidyapeeth's College of Engineering, Kolhapur.

Respected Sir,

We declare that the students from your college have successfully completed the project within an estimate time. All the details about the project completion and satisfaction are as below:

- 1. Project Name: Mobimed: The Health Assistant
- 2. Illustration about the project: When we had a study on various topics, we found that the project Mobimed This application helps to communicate between doctor and patient which is an online application. The basic design of MobiMed is on a web application and Android app in which the application is on a web server, and users will access it via App. This Online Prescription management system receive more and more attention due to the ability to reshape current healthcare system for example patient can book and cancel appointment through mobile app ,he can also see the availability of doctor and his previous treatment history.
- Implemented by:
 - 1. Shesharaj K. Gore
 - 2. Priyanka P. Kulkarni.
 - 3. Shailesh S. Jadhav.
 - 4. Pooja S. Mane.
 - Vaibhavi P. Rendalkar
- Name of Institute: Bharati Vidyapeeth's College of Engineering, Kolhapur.
- 5. Project guide: Mr. S.B.Patil Department of Computer Science And Engineering.
- Sponsored By: Global Eye Technology, Kolhapur.
- 7. Date of Sanction: 1-8-17.
- 8. Final Date of completion: 22-3-18.
- 9. No. of days spent (Approx.): 7 months 21 days
- 10. Sponsored Amount: Rs.15000/-



GLOBAL EYE TECHNOLOGY

4th Floor, Tirth Enclave Rajarampuri 11th Lane Kolhapur-416008 Website: www.globaleyetechnology.com, Email: info@globaleyetechnology.com

Certified that we are satisfied with the project made by the students and it is completed as per the requirements, hence we declared that the project is in complete working state. We congratulate all the students for completion of the project and also wish them, best luck for their future.

Thanking You,

Date: 04-04-2018

Place: Kolhapur

(Managing Director)



AUTOMATION OF TOLL COLLECTION AND VEHICLE SECURITY

A Project Report

submitted in partial fulfillment of the requirements

for the award of the degree of

Bachelor of Engineering

in

Computer Science & Engineering

by

- 46 Ms. Jagtap Supriya D.
- 47 Ms. Ghatage Shweta A.
- 48 Ms. Koli Supriya S.
- 49 Ms. Yadav Neelam M.

under the guidance of

Mrs. S. M. Mulla



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

YEAR: 2017-18



Block No.6, Tejashri apt., Near Limaye Hospital . Vishrabag , SANGLI. Tal- Miraj Dist-Sangli (Maharashtra). 416416

Office. +91-9960361004, +91-9595441004 Email-electrodreams.info@gnail.com Website- www.electrodreams.in

Industrial, Agrictural, Educational Automation & System Design, Developing & Manufacturing(Electronics & Electrical)

REMN NO.273351104474/7/2017

Date 15/7/2017

To,

The Principal

Bharati Vidyapeeth's College of Engineering, Kolhapur

Subject: Financial Assistance for the project titled "Automation For Toll Collection and Vehicle Security"

Dear Sir,

This is to inform that our company is sponsoring the final year student project of Computer Science and Engineering department which is titled "Automation For Toll Collection and Vehicle Security" with maximum amount/ expenses of Rs.30, 000/- (Rs. Thirty Thousand Only).

The sponsorship will be in terms of software's, devices, high testing and expert resources or workshop needed for project. The sanctioned amount is to be utilized for the above project and during the academic year 2017-18 only. The duration for complication of above project will be one year.

Kindly allow the following group of students to work under the Guidance/Principal investigator of Mr. S.U. Kadam Assistant professor Bharati Vidyapeeth's College of Engineering, Kolhapur. Name of Students:

- 1. Mr. Jagtap S Dattatray
- 2. Ms Shweta A Ghatage
- 3. Ms.Supriya S Koli
- 4. Ms.Neelam M Yadav
- Ms.Prajakata Ayarekar
 Kindly consider letter as sanction letter, this is for your kind information and further needful action

(Managing Director)





CERTIFICATE

This is to certify that the project report entitled "Automation of toll collection and vehicle security" submitted by Ms. Supriya D. Jagtap, Ms. Shweta A. Ghatage, Ms. Supriya S. Koli, Ms. Neelam M. Yadav for the partial fulfillment of the requirement for the award of degree of Bachelor of Engineering in Computer Science & Engineering to the Shivaji University.

This report is record of students' team work carried out by them under my supervision and guidance.

Date:

Place:

Guide

Mrs. S. M. Mulla

HoD

Mrs. S. M. Mulla

PRINCIPAL

Dr. V. R. Ghorpade

Block No.6, Tejashri appt., Near Limaye Hospital. Vishrambag. SANGLL
Tal- Miraj Dist- Sangli (Maharashtra).416416
Office- +91-9960361004, +91-9595441004 Email-electrodreams.info@gmail.com

Website- www.electrodreams.in

Industrial, Agricultural, Educational Automation & System Design, Developing & Manufacturing (Electronics & Electrical

REMN NO.273351104474/ 7/2017

Date 15/07/2017

To,

Principal,

Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject:-Sponsorship for final year project of engineering.

Respected Madam,

We are pleased to inform you that our organization "Electro Dreams Tech, sangli Office Address - Flat No.6, Tejeshree Apartment, Near Limiye Eyes Hospital, Vishrambag, Sangli .416415" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

- 1. Jagtap Supriya Dattatray
- 2. Ghatage Shweta Ashok
- 3. Koli Supriya Shivaji
- 4. Yadav Neelam Maruti
- 5. Ayarekar Prajakta Shrikant

Automation of Toll collection and Vehicle security

Now a days there is a huge rush in the toll plazas in order to pay the toll tax. Therefore in order to reduce the traffic jam and to save time, & also to reduce the money loss of 300 cores / year. We have designed project for the automation in toll tax payment using RFID. We are going to make the automation of toll plaza using combination of Android application, RFID, GSM.

The implantation of automation in toll plaza which is a step towards improving the monitoring of vehicles, travelling in predetermine routes.

The aim of our project is to design a system, which automatically identifies an approaching vehicles and record vehicles number and time. If the vehicle belongs to the authorized person, it automatically opens the toll gate and a predetermined amount is automatically deducted from its account through application. This translate to reduced Traffic congestion at toll plazas and helps in lower fuel consumption. This is very important advantage of this system.

> ream REMN 27035110667

Thanking You.

Regards, Jamadado

(Managing Director)

Electro Dreams Tech. Block No.6, Tejashri Appt. Vishrambag, Sangli. 416416 Email:- electrodreams.info@gmail.com



Block No.6, Tejashri appt., Near Limaye Hospital, Vishrambag, SANGLL
Tal- Miraj Dist- Sangli (Maharashtra), 416416
Office- +91-9960361004, +91-9595441004 Email-electrodreams, info@gmail.com

Website- www.electrodreams.in

Industrial, Agricultural, Educational Automation & System Design, Developing & Manufacturing (Electronics & Electrical

REMN NO. 273351104474 201

Date

To, Principle,

Bharati Vidyapeeth's College Of Engineering, Kolhapur

Subject:- Completion of Final Year Project of Engineering.

Respected Sir,

We are pleased to inform you that our organization "Electro Dreams Tech, sangli" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has been sponsoring the engineering students for their final year project, so we have selected the following students from your institute. We have received application for sponsorship from these students.

- 1. Jagtap Supriya Dattatray
- 2. Ghatage Shweta Ashok
- 3. Koli Supriya Shivaji
- 4. Yaday Neelam Maruti

"Automation of toll collection and vehicle security"

Considering project requirements of the students. After completing the project we shall consider a demonstration of the project and if it fits according to requirements & norms of our Organization we may consider to buy this project from students in the future and the expenses provided by us should be spend on the study materials, stationary and instruments required for establishing set up of the project.

Thanks and Regards,

Name of

Block Managing Appl.
Vishrambag, Sangii, 416416

Email: eleDirector)fo@gmail.com