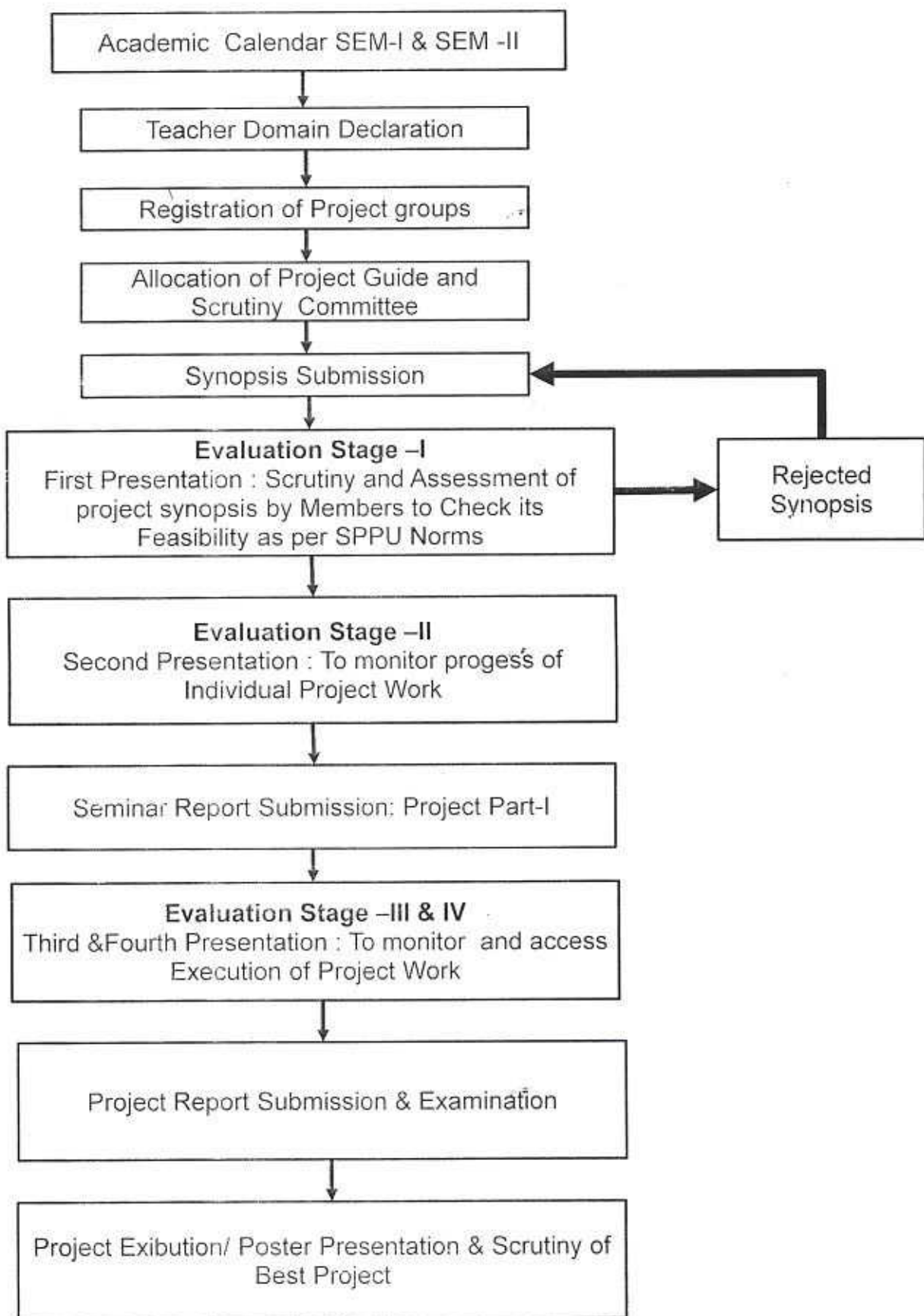


# Documents UG Projects

## BE PROJECT EXECUTION FLOW





Sinhgad Institutes

Sinhgad Technical Education Society's

## SINHGAD ACADEMY OF ENGINEERING

(Affiliated to University of Pune and Approved by, AICTE, New Delhi.)

S. No. 40/4 A, Near octroi Post, Kondhwa - Saswad Road, Pune - 411048.

☎ : (020) 26934441, 26934550, Fax : 020- 26934297,

E-mail : saeprincipal@sinhgad.edu, Website : [www.sinhgad.edu](http://www.sinhgad.edu)

### Department of Electronics and Telecommunication

Date :- 16-12-20

### NOTICE

All the students of BE (Electronics & Telecommunication), are hereby informed that, their first presentation (Review) of BE Project Part-I will be scheduled on 30th Dec. 2020. Before review meet your respective guide & prepare final updated presentation. Prepare the synopsis for Project & submit the same.

(Prof. V.P. Patil)

Project Co-coordinator

(Dr. K. M. Gaikwad)

HOD



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### Department of Electronics and Telecommunication

Date :- 16-12-2020

### CIRCULAR

All the staff are hereby informed that, the final Review of BE Project will be held on 30th Dec. 2020. Please see your time availability & inform to your group student for review.

(Prof. V.P.Patil)

Project Co-coordinator

(Dr. K. M. Gaikwad)

HOD



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### Department of Electronics and Telecommunication

Date: - 10-02-2021

## NOTICE

All the faculty members are requested that please check Project groups & their project Titles in the list attached and if your groups are remaining to submit the BE Project synopsis, discuss with them and send synopsis upto Friday, 12th February 2021. As Project Review Presentation-II for BE students will be scheduled on 18th February, 2021

(Prof. V. P. Patil)

Project Coordinator

(Dr. K. M. Gaikwad)

HOD



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### Department of Electronics and Telecommunication

Date: 02/05/2021

#### Notice

#### SPPU Practical-Oral Examination for A.Y. 2020-21 Sem-I B.E Project Stage-I

All the Project Guides are requested to note that the Panels for the BE Project Stage-I Examination. All are requested to email the Project Stage-1 report, PPTs & Synopsis(in one folder) with nomenclature **Project Stage\_1\_GroupNo\_GuideName** to [vamore.sae@sinhgad.edu](mailto:vamore.sae@sinhgad.edu) & [pjathar73@gmail.com](mailto:pjathar73@gmail.com) after completing exam. Underlined staff member shall create Google meet link & share the same for exam on students WhatsApp Group(For your Panel create separate Group). When college will reopen submit the recording video to the Jathar sir.

Panel. No.	Name of Staff	Group No	Date	Internal/ External
1	Dr. K. M. Gaikwad, Mr. A.B. Ingole, <u>Mrs. R. B. Kakkeri</u>	1,23,30,31,32	03 <sup>rd</sup> May 2021 (10.00a. m. to 4.00pm)	Respective Guides & Panel Members
2	Dr. Mrs. J .P. Shinde, <u>Mr. R.U. Yawale</u>	2,3,12,13,14		
3	Dr. D.K. Kamat, <u>Dr. Mrs. P.S. Deshpande</u>	6,7,8, 4,5		
4	Dr.Mrs. R.V .Patil, <u>Mrs. S.T.Sawant Patil</u>	9,10,11,42,43, 44,20		
5	Mrs. M. M. Patil , <u>Mrs. S. D. Pahade</u>	15,16,17,48,49,50		
6	Mrs. V.P.Patil, <u>Mrs. J A Bagban</u>	21,22,24,25,26		
7	Mrs. P. R. Shahane , <u>Mr. Y.R. Bachkar</u>	27,28,29,45,46,47		
8	Mr. V.D. Bharte , <u>Mr. R. P. Rajput</u>	36,37,38,18,51,52,53		
9	Mrs. V.M. Sardeshmukh, <u>Mrs. K N Jagtap</u>	33,34,35,39,40,41,19		

(Mrs. V.P. Patil)  
Project Co-ordinator

(Dr. K.M. Gaikwad)  
HOD & Vice Principal



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### Department of Electronics and Telecommunication

Date: 30/05/2021


### B.E Project Student Notice: 2020-2021

All the students of BE (Electronics & Telecommunication), are informed that, their Project Review in semester-II will be scheduled on 3<sup>rd</sup> June 2021. Before review discuss with your respective guide, prepare the **power point presentation** of approximate 15 slides for the project work presentation, prepare **project report** of approximate 30-40 pages, **demonstration of project & prepare paper for Journal/Conference.**

The project review will be online on Google meet.

The panel details for project review:

Panel No.	Name of Staff	Group No	Date	Staff Sign.
1	Dr. K. M. Gaikwad, Mr. A.B. Ingole, <u>Mrs. R. B. Kakkeri</u>	1,23,30,31,32	03 <sup>rd</sup> June 2021 (3.00 pm to 5.00pm)	Respective Guides & Panel Members
2	Dr. Mrs. J .P. Shinde, <u>Mr. R.U. Yawale</u>	2,3,12,13,14		
3	Dr. D.K. Kamat, <u>Dr. Mrs. P.S. Deshpande</u>	6,7,8, 4,5		
4	Dr. Mrs. R.V .Patil, <u>Mrs. S.T.Sawant Patil</u>	9,10,11,42,43, 44,20		
5	Mrs. M. M. Patil , <u>Mrs. S. D. Pahade</u>	15,16,17,48,49,50		
6	Mrs. V.P.Patil, <u>Mrs. J A Bagban</u>	21,22,24,25,26		
7	Mrs. P. R. Shahane , <u>Mr. Y.R. Bachkar</u>	27,28,29,45,46,47		
8	Mr. V.D. Bharte , <u>Mr. R. P. Rajput</u>	36,37,38,18,51,52,53		
9	Mrs. V.M. Sardeshmukh, <u>Mrs. K N Jagtap</u>	33,34,35,39,40,41,19		

  
(Mr. V.P. Patil)  
Project Co-ordinator

  
(Dr. K.M. Gaikwad)  
HOD & Vice Principal



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### Department of Electronics and Telecommunication

Date: 30/05/2021

### B.E Project Staff Notice: 2020-2021

All The Faculties are informed that, the committee is formed for Scrutiny and Assessment of Project in semester II. Please ensure whether the students have to prepare the **power point presentation** of approximate 15 slides for the project work presentation, **project report** of approximate 30-40 pages, **demonstration of project & prepare paper for Journal/Conference**. The project review will be online on Google meet.

Panel. No.	Name of Staff	Group No	Date	Staff Sign.
1	Dr. K. M. Gaikwad, Mr. A.B. Ingole, Mrs. R. B. Kakkeri	1,23,30,31,32	03 <sup>rd</sup> June 2021 (3.00 pm to 5.00pm)	Respective Guides & Panel Members
2	Dr. Mrs. J.P. Shinde, Mr. R.U. Yawale	2,3,12,13,14		
3	Dr. D.K. Kamat, Dr. Mrs. P.S. Deshpande	6,7,8, 4,5		
4	Dr. Mrs. R.V. Patil, Mrs. S.T. Sawant Patil	9,10,11,42,43, 44,20		
5	Mrs. M. M. Patil, Mrs. S. D. Pahade	15,16,17,48,49,50		
6	Mrs. V.P. Patil, Mrs. J A Bagban	21,22,24,25,26		
7	Mrs. P. R. Shahane, Mr. Y.R. Bachkar	27,20,29,45,46,47		
8	Mr. V.D. Bharte, Mr. R. P. Rajput	36,37,38,18,51,52,53		
9	Mrs. V.M. Sardeshmukh, Mrs. K N Jagtap	33,34,35,39,40,41,19		

  
(Mr. V.P. Patil)  
Project Co-ordinator

  
(Dr. K.M. Gaikwad)  
HOD & Vice Principal



**Sinhgad Technical Education Societys**  
**Sinhgad Academy of Engineering Kondhwa Pune**  
**Dept of Electronics & Telecommunication Engineering**  
**Guide Allotment List - Academic Year 2019-20**

Sr.No	Name of Students	Exam Seat No	Title of Project	Domain	Project Guide	Project Type
1	Rimmy	71716768C	Remote Controlled Smart Automation System	Embedded System	Dr. K.M. Gaikwad	Non Sponsored
2	Rishabh Kumar	71716769M				
3	Nikam Vaibhav A	71825528D				
4	Aashi Maheshwari	71716252E	Data Accumulator using Industrial IOT	Embedded System	Dr. K.M. Gaikwad	Sponsored by CEREBLE ROBOTICS LLP PADMAVATI PUNE
5	Deshmukh Sanket R	71716398K	Detecting Financial Frauds using Machine Learning	Wireless Comm.	Dr. Mrs. J.P. Shinde	Non Sponsored
6	Shaikh Afridi A	71716266E				
7	Rohit Kumar Vatsa	71716778L				
8	Hande Rishikesh N	71825250M	Suspicious Object Detection in Public Places using Image Processing	Image Processing	Dr.Mrs. P.S. Deshpande	Non Sponsored
9	Hongekar Abhay U	71825267F				
10	Khose Atul S	71825385L				
11	Ghogare Shubham S	71825227G				
12	Kakad Rutuparn R	71544817L	IOT Based Smart Energy Meter with Automatic Tariff Calculation	Embedded System	Dr. D.K.Kamat	Non Sponsored
13	Ghode Pratik S	71544733F				
14	Bonde Mayur R	71618856C				
15	Warwadkar Tanmay V	71545294M				
16	Kamble Satish	71640415L	Design & Implementation of Automatic Aquarium System using IOT	Embedded System	Dr. D.K. Kamat	Non Sponsored
17	Bagad Kalyani	71418724M				
18	Athawale Sachin	71736051C				
19	Dake Shankar	71506866M				
20	Ghuge Rahul	71544737J	LI-FI Based Toll Collector	Automation	Dr. Mrs. R.V. Patil	Non Sponsored
21	Godalwar Nikhil	71716460J				
22	MD SK Nadeem	71619192L				
23	Patil Ritesh	71545026D				
24	Darade Pramod P	71825131J	Automatic Power Generation using Solar Energy & Rain Water Harvesting	Embedded Sys	Dr. Mrs. R.V. Patil	Non Sponsored
25	Mhetre Nikhil S	71825482B				
26	Varkale Ashitosh A	71825904B				
27	Pitale Saket S	71716727F				
28	Aphrande Mohini V	71716288F	Spectrum Occupancy Measurment And Analysis for 700MHz to 3GHz Band.	Communication	Mr. R.U. Yawale	Non Sponsored
29	Khare Shambhavi A	71716564H				
30	Kumar Sanu	71716579F				
31	Deshpande Chaitali S	71716401C	Smart Brain Disorders Detection from MRI Images	Bio- Medicale	Mr. R.U. Yawale	Non Sponsored
32	Suhasini	71716880J				
33	Oberoi Sukhdeep singh	71716672E				
34	Pabothu Spoorthy	71716678D				

**Guide Allotment List - Academic Year 2019-20**

Sr.No	Name of Students	Exam Seat No	Title of Project	Domain	Project Guide	Project Type
35	Hande Yashwant V	71825251K	Computer Vision based Person Following Robot using Adaptive 2D Apporach	Internet Of Things	Mrs. T.S. Londe	Non Sponsored
36	Surwase Pravin M	71825838L				
37	Hajare Prajkta P	71640404E				
38	Kale Pratiksha R	71544824C				
39	Madki Sammrudhi M	71825442C	Three Factor Authentication for Door Security based on IOT	Internet Of Things	Mrs. T.S. Londe	Non Sponsored
40	Sawant Yuvraj P	71825728G				
41	Biradar Pranita B	71825061D				
42	Agarwal Bhumika	71716343B	Food Recognition and Classification along with Calorie Count using Machine Learning	Machine Learning	Mrs. M.M. Patil	Non Sponsored
43	Dekate Sheetal	71716833G				
44	Sumit Kumar	71716882E				
45	Gupta Vaishali	71716936H				
46	Amrutha S	71716283E	Automatic Defect Detection for Ceramic Tiles using Image Processing	Image Processing	Mrs. R.A. Jain	Non Sponsored
47	Tayade Simran S	71716864G				
48	Dhali Arka	71618815F				
49	Pande Swamini P	71825851H				
50	Chavan Rakesh P	71825098C	Horizental & Verticale Cleaning Robot using Mobile Control	Embedded	Mrs. R.A. Jain	Non Sponsored
51	Kapre Devkanya	71825348F				
52	Sonu Kumar	71545213E				
53	Bandgar Neha J	71825012F	Vehicle Anti- Theft Device using Face Recognition	Image Processing	Mr. A.B. Ingole	Non Sponsored
54	Deshmukh Preeti A	71825155F				
55	Nalage Suvarna V	71825508K				
56	Vedpathak Pradnya D	71825911E				
57	Kapale Akshay C	71618423M	IOT Based Mine Detection & Diffusing Rover with Robotic ARM	Internet Of Things	Mrs. J.A. Bagban	Non Sponsored
58	Nair Sreejith M	71618624B				
59	Deshmukh Pratik N	71716395E				
60	Naykodi Abhishek A	71716257F				
61	Kulkarni Ajay R	71825407E	IOT Based Driverless Seed Sowing Machine	Internet Of Things	Mrs. J.A. Bagban	Non Sponsored
62	Nikam Indrajeet K	71825526H				
63	Gudewar Yogesh P	71418891D				
64	Suryanwanshi Ajay R	71736115C				
65	Patil Mansi A	71716702L	Plant Disease Severity Meaasurment using Image Processing	Image & Embedded	Mrs. P.R. Shahane	Non Sponsored
66	Philip Melvin	71716726H				
67	Vaibhav Singh	71716935K				
68	Swamy Pooja	71716892B				
69	Avatade Snehal S	71736054H	Smart Mirror Using Raspberrypi	Image Enhancement	Mrs. P.R. Shahane	Non Sponsored
70	Mali Pallavi P	71736091B				
71	Patil Rachana	71736106D				

**Guide Allotment List - Academic Year 2019-20**

Sr.No	Name of Students	Exam Seat No	Title of Project	Domain	Project Guide	Project Type
72	Mithaiwala Hussain S	71716625C	Restaurant Waiter Robot	Embedded	Mrs. R.B.Kakkeri	Non Sponsored
73	Mithaiwala Murtaza Q	71716626M				
74	Khan Abul Hasan W	71716554L				
75	Salgotra Dheeraj	71716409J				
76	Sayyed Ruban	71618531j	Driver Sleep Detection & Alarming System	Image Processing	Mrs. R.B. Kakkeri	<b>Sponsored by NAX Technologies Kad Nagar Undri Pune -60</b>
77	Shrivastava Abhiti	71618906C				
78	Virkar Omkar	71545277M				
79	Kashid Omkar	71619104M				
80	Kokane Sonal V	71716572J	A system for Assistance of Paralyzed Patients using Image Process	Image Processing	Mrs. V.M. Sardeshmukh	Non Sponsored
81	Mande Shubham R	71716608C				
82	Pujari Jayesh N	71716745D				
83	Raipurkar Sanket	71716752G				
84	Deshpande Ruhi R	71716782J	Expressway Lane Shifting using Wireless Vehicle Communication	Wireless Communication	Mrs. V.M. Sardeshmukh	Non Sponsored
85	Jain Priyam S	71716744F				
86	Kardile Pradeep D	71716732B				
87	Mall Vikas	71716605J				
88	Bhadawankar Sonal S	71825030D	Smart Drainage System	Computer Vision	Mr. V.D. Bharte	Non Sponsored
89	Bhosale Komal S	71825054M				
90	Agarwal Rupali S	71824973K				
91	Sangale Nisha B	71716801J	Drip Irrigation System using IOT	Internet Of Things	Mrs. K.N. Jagtap	Non Sponsored
92	Yeola Yogendra M	71716967H				
93	Motipavale Suryakant M	71716644K				
94	Rawal Ravina P	71825668K	Using Internet of Things in Monitoring & Management of Dams	Internet Of Things	Mrs. K.N. Jagtap	<b>Sponsored by TECH BUZZ BUSINESS SOLUTION LLP BALAJINAGAR PUNE</b>
95	Changude Harshada R	71825080L				
96	Kharse Shivaji R	71825381H				
97	Tilekar Vaibhav V	71825884D				
98	Kanth Swastika D	71825346K	IOT Based Health Monitoring & Assistive Living	Internet Of Things	Mrs. S. T Sawant Patil	Non Sponsored
99	Khopade Jagruti R	71825384B				
100	Mahale Ravi R	71736089L				
101	Bole Ashish A	71736050E				
102	Gujarathi Sandesh P	71716466H	Digital Notice Board Based on IOT	Internet Of Things	Mrs. S. T Sawant Patil	Non Sponsored
103	Sheware Vaibhav P	71716837K				
104	Nanvare Nikita N	71619124F				
105	Wakude Pratik D	71736102M	Implementation of Test Bed for Vehicular AD-HOC Network	Communication	Mr. S.V. Thakur	Non Sponsored
106	Ghurde Samiksha V	71736081E				
107	Patil Harshada N	71736086F				

**Guide Allotment List - Academic Year 2019-20**

Sr.No	Name of Students	Exam Seat No	Title of Project	Domain	Project Guide	Project Type
108	Parit Aparna B	71736098K	Development & Internet working of Node for Vanet Communication & Platooning	Communication	Mr. S.V. Thakur	Non Sponsored
109	Kamble Shweta J	71545288G				
110	Kurkute Nita G	71736068H				
111	Pnasare Namit P	71736104H				
112	Mapuskar Aaswad A	71716612M	Video Based Fall Detection using Image Processing	Image Processing	Mr. S.S. Shah	Non Sponsored
113	Jana Deepak R	71216674C				
114	Patil Lokesh B	71736105F				
115	Chavan Nachiket	71618953E				
116	Mamidwar Kushal A	71825458K	Image Processing based Animal & Pedstrian Detection Using Python	Image Processing	Mr. S.S. Shah	Non Sponsored
117	Waghmare Sanjeevani S	71640459B				
118	Zurange Pranita V	71825957C				
119	Tompe Villas S	71825887J				
120	Chaudhari Khushbu A	71716364E	Gears Defects Detection using Image Processing	Image Processing	Mr. Y.R. Bachkar	Non Sponsored
121	Katkade Shashwat N	71716831L				
122	Kadam Rishikesh M	71716772M				
123	Pawar Shahuraj S	71716817E	Anti-Poaching Alarm System for Trees using Wireless Network Based on IOT	Internet Of Things	Mr. Y.R. Bachkar	Non Sponsored
124	Thakare Ankush M	71825874G				
125	Hinge Ravindra K	71716480C				
126	Bhoyar Manthan Y	71716341F				
127	Dusane Shubham S	71736067K	Smart Intruder Detection System	Embedded	Mr. B.S. Gayal	Non Sponsored
128	Parge Rohan S	71736101C				
129	Pawar Komal N	71545044B				
130	Shirode Devyani R	71736114E				
131	Mohite Sourabh N	71716634B	Real Time Visualization for Blind People	Machine Learning	Mr. S. B. Pawar	Non Sponsored
132	Pharande Mahesh M	71716725K				
133	Pande Shubham K	71716685G				
134	Ibitkar Omkar D	71716490L				
135	Kashettiwar Shrinivas S	71716542G	Guiding System using Voice Recognition	Communication	Mr. S. B. Pawar	Non Sponsored
136	Garade Harshal Y	71716443J				
137	Bharti Pavan N	71716330L				
138	Pawar Prathmaesh T	71716723C	IOT Based Self Defence System for Women Security	Embedded Sys.	Mr. R.P. Rajput	Non Sponsored
139	Savane Anuja	71716809D				
140	Landage Vinod N	71825432F				
141	Shah Raturaj	71716786M	Automatic Medicine Reminder	Embedded Sys.	Mr. R.P. Rajput	Non Sponsored
142	Shaikh Wisaam	71825751M				
143	Bhandari Siddhant	71825037M				

**Sinhgad Academy of Engineering Kondhwa, Pune**  
**Department of Electronics & Telecommunication Engineering**

List of Project Coordinators

Sr. No.	Name of Project Coordinator	Year
1	Mrs. V.P. Patil	2020-21
2	Mr. S.S. Shah	2019-20
3	Mr. S.S. Shah	2018-19
4	Mr. S.S. Shah	2017-18
5	Mr. S.S. Shah	2016-17

### Total number of Projects in All Years

Sr. No	Academic Year	Project Count
1	2020-21	53
2	2019-20	40
3	2018-19	53
4	2017-18	52
5	2016-17	58

**Sinhgad Technical Education Societys**  
**Sinhgad Academy of Engineering Kondhwa Pune**  
**Dept of Electronics & Telecommunication Engineering**  
**Details of Sponsored Project- Academic Year 2020-21**

Sr.No	Project Guide	Title Of Project	Name of Student in the Group	Company/ Organizere
1	Prof. M.M. Patil	Inspection of Mechanical Job using Image Processing	Shrikhande Ruchir	Desai Engineer's Kharadi Mundhwa Pune-14
			Gangavati Kartik	
			Rathi Purushottam	
			Adhikari Anish	

**Details of Sponsored Project- Academic Year 2019-20**

Sr.No	Project Guide	Title Of Project	Name of Student in the Group	Company/ Organizere
1	Dr. K.M. Gaikwad	Data Accumulator using Industrial IOT	Aashi Maheshwari	Cereble Robotics LLP Padmavati Pune
2	Mrs. R.B. Kakkeri	Driver Sleep Detection & Alarming System	Sayyed Ruban	Nax Technologies Kad Nagar Undri Pune-60
			Shrivastava Abhiti	
			Virkar Omkar	
			Kashid Omkar	
3	Mrs. K. N. Jagtap	Using Internet of Things in Monitoring & Management of Dams	Rawal Ravina P	Tech Buzz Business Solutions LLP Balajinagar Pune
			Chandgude Harshada R	
			Kharse Shivaji R	
			Tilekar Vaibhav V	

**Details of Sponsored Project- Academic Year 2018-19**

Sr.No	Project Guide	Title Of Project	Name of Student in the Group	Company/ Organizere
1	Dr. M.M. Sardeshmukh	Design & Develop Test System for Electronics Communication Module	Darshan Gundecha	Cummins Technologies I.P. Ltd
			Drishti Singh	
			Mayuri Chavan	
			Shubham Nadkarni	

**Details of Sponsored Project- Academic Year 2017-18**

Sr.No	Project Guide	Title Of Project	Name of Student in the Group	Company/ Organizere
1	Dr. R.P. Borse	Real Time Retical Insertation using Digital Image Processing	Abhishek Deshmukh	Bharat Electronics Ltd Pashan Pune
			Nikita Dalvi	
			Sudip Dhumal	
2	Mrs. P.R. Shahane	Aadharcard Based Abortion & Illegal Sonography Tracking System	#REF!	N-Sys Technologies Katraj Pune
			#REF!	
			#REF!	
			#REF!	
3	Mrs. P.R. Shahane	Capacitive Touch Panel Based Interactive Homes using Android Application	Devika N Karpe	Innotrek Infocomm P.Ltd
			Sonia D Mate	
			Vishal A Kamble	



# DESAI ENGINEER'S

Manufacturer's of Machined Components and Assemblies  
An - IATF16949 : 2016 & ISO9001:2015 Certified Company



S.No. 28/3/1, Damodar Nagar, Kharadi-Mundhwa Road, Kharadi, Pune - 411014, Maharashtra, India.  
E-mail : [contact@desaiengineers.com](mailto:contact@desaiengineers.com) Website : [www.desaiengineers.com](http://www.desaiengineers.com)

Date:-27-4-21

Desai Engineers

S-28/3/1, Damodar Nagar

Kharadi-Mundhwa Road Pune 411014

Maharashtra

India.

RE:-Assistance/Mentorship of Final Year Project

## TO WHOWSOEVER IT MAY CONCERN

This letter is to certify that the students Ruchir Shrikhande, Kartik Gangavati, Purushottam Rathi and Anish Adhikari studying at Sinhgad Academy of Engineering are working at our company Desai Engineers for their Final Year Project titled as "Mechanical Job Inspection using Image Processing and Deep Learning" for a period of 8 months which has been assigned to them by Mr.(Mr.Mahesh Bachal-QA and QMS head ).

In case of any queries or concerns regarding the same, please feel free to contact us on the following number

Contact Number.-9370310513

Best Regards,

Desai Engineers





**BACHELOR OF ENTC ENGINEERING**

**A  
SYNOPSIS**

**OF THE PROJECT ENTITLED**

**Intelligent SQL database-based Attendance system and  
Application using Python ,OpenCV**

**SUBMITTED BY :**

**Mrunal Deshmukh (ETBB010)**

**Pooja Choudhary (ETBB009)**

**Anjali Dixit (ETBB011)**

**Under the Guidance of**

**Prof.V. P. Patil**



**Sinhgad Institutes**

**Submitted to**

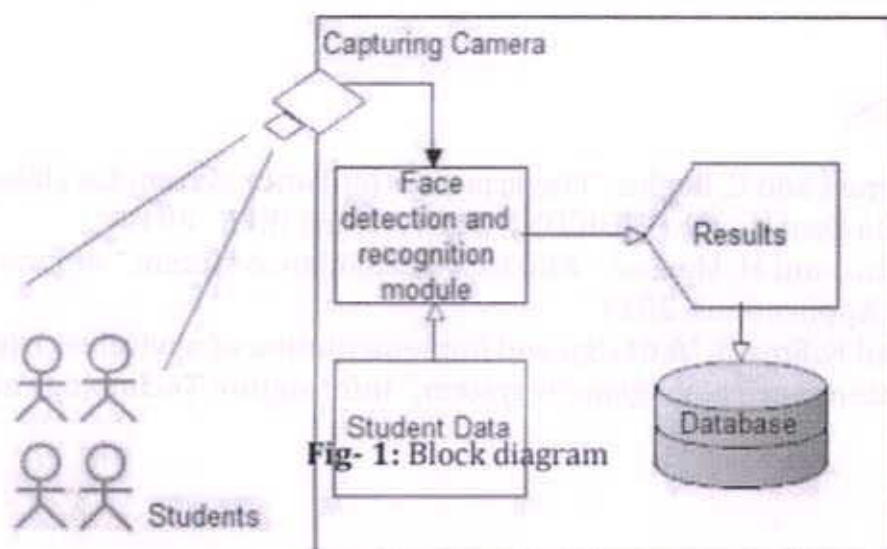
**DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING**

**STES'S SINHGAD ACADEMY OF ENGINEERING, PUNE-411048**

**2020-2021**

- Database images & captured images are compared and the students who are present in both the sides are marked present in the excel sheet. In case a student is present whose face is not recognized the lecturer can update the system manually

## **BLOCK DIAGRAM:**



## **HARDWARE REQUIRMENTS:**

- Webcam or laptop camera
- Windows 7 or Above
- i3 processor or above

## **SOFTWARE REQUIREMENTS:**

- Python IDLE.
- OpenCV (Open-source Computer Vision) for python
- Program code for face detection written in Python Programming language.
- My SQL for database creation

## **SUMMARY:**



Sinhgad Institutes

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## SINHGAD ACADEMY OF ENGINEERING

(Affiliated to University of Pune and Approved by, AICTE, New Delhi.)  
S. No. 40/4 A, Near octroi Post, Kondhwa - Saswad Road, Pune - 411048.  
☎ : (020) 26934441, 26934550, Fax : 020- 26934297,  
E-mail : saeprincipal@sinhgad.edu, Website : www.sinhgad.edu

### Department of Electronics and Telecommunication

Date: 28/12/2020

#### B.E Project Circular: 2020-2021

All The Faculties are informed that, the committee is formed for Scrutiny and Assessment of **Online Project Part- I Review** to check the feasibility of Project Topic. Please ensure whether the Students have to prepare the **power point presentation of approximate 20 slides for the project work presentation**. Also check whether the log book is mentioned or not.

Sr. No.	Name of Staff	Group No	Date	Staff Sign.
1	Dr. K. M. Gaikwad, Mr. A .B. Ingole, Mr. R.U. Yawale	01, 23, 12, 13, 14	30 <sup>th</sup> Dec. 2020	
2	Dr. Mrs. J.P. Shinde, Mr. S.B. Pawar	02, 03, 49,50,51		
3	Dr. C.G. Patil, Mrs. V. M. Sardeshmukh	04, 05, 31,32,33		
4	Dr. D.K. Kamat, Dr. Mrs. P.S. Deshpande	08, 09 , 06, 07		
5	Dr. Mrs. R.K. Patil, Mrs. S.T. Sawant Patil	10, 11, 40, 41,42		
6	Mrs. M.M. Patil, Mrs. T.S. Londhe	17, 18, 15, 16		
7	Mrs. R.A. Jain, Mrs. R.B. Kakkeri	19, 20, 28, 29,30		
8	Mrs. V.P. Patil, Mrs. J.A. Bagban	21, 22, 24, 25		
9	Mrs. P.R. Shahane, Mr. Y.R. Bachakar	26, 27, 43, 44, 45		
10	Mr. V.D. Bharte, Mr. R.P. Rajput	34, 35, 52, 53, 54		
11	Mrs. K.N. Jagtap, Mr. B.S. Gayal	37, 38, 39, 46, 47, 48		

(Mrs. V.P. Patil)  
Project Co-ordinator

(Dr. K.M. Gaikwad)  
HOD

# Fake News Detection Using Machine Learning

Ms. Mayuri Shivade<sup>1</sup>, Mr. Vaibhav Malge<sup>2</sup>, Mr. Shubham Sutar<sup>3</sup>, Mrs. Supriya Sawant-Patil<sup>4</sup>

<sup>1</sup>Ms. Mayuri Shivade, Sinhgad Academy Of Engineering, Pune

<sup>2</sup>Mr. Vaibhav Malge, Sinhgad Academy Of Engineering, Pune

<sup>3</sup>Mr. Shubham Sutar, Sinhgad Academy Of Engineering, Pune

<sup>4</sup>Mrs. Supriya Sawant-Patil, Assistant Professor Department of E&TC, SAOE, Pune

**Abstract** - The pretend news on social media and numerous different media is wide spreading and may be a matter of significant concern thanks to its ability to cause loads of social and national harm with damaging impacts. loads of analysis is already centered on detective work it. This paper makes AN analysis of the analysis associated with pretend news detection and explores the normal machine learning models to settle on the simplest, so as to form a model of a product with supervised machine learning formula, that may classify pretend news as true or false, by victimisation tools like python scikit-learn, information science for matter analysis. This method can lead to feature extraction and vectorization; we have a tendency to propose victimisation Python scikit-learn library to perform tokenization and have extraction of text information, as a result of this library contains helpful tools like Count Vectorizer and quarrel Vectorizer. Then, we'll perform feature choice ways, to experiment and opt for the simplest work options to get the very best exactness, consistent with confusion matrix results.

**Index Terms** - pretend news, pretend news detection, Machine Learning, Python, Classifier, Dataset.

## I. INTRODUCTION

In Today's world, anybody will post the content over the net. sadly, counterfeit news gathers loads of thought over the net, notably via web-based networking media. people get misdirected and do not rethink before flowing such mis-educational items to the foremost distant a part of the arrangement. Such form of activities don't seem to be sensible for the society wherever some rumours evaporates the negative thought among the individuals or specific class of individuals. pretend news detection is formed to prevent the rumours that square measure being unfold through the varied platforms whether or not it's social media or electronic communication platforms, this is often done to stop spreading pretend news that leads to activities like mob murder. The planned system helps to search out the legitimacy of the news. If the news isn't real, then the user is recommended with the relevant article.

## II. EXISTING SYSTEM

There square measure several current systems used for pretend News Detection. the prevailing systems permit the detection up to some extent. the varied approaches used for pretend News Detection victimisation Machine Learning square measure Naïve mathematician classifier, Random Forest classifier, CNN, KNN, SVM classifier. numerous researchers have tried resolution this challenge during a multitude of the way to check that methodology works and obtain fascinating results. So, It is evident that a lot of makes an attempt are created however it's all a touch untidy and scattered. there's loads of area for development and analysis during this space particularly as a result of news statements have numerous variables connected to them: wittiness, abbreviation, metaphors, etc. However, efforts are created to rearrange reliable and large information into a high quality dataset. One such benchmark dataset has been employed in this project. Fake news downside is growing at AN minacious rate and it has to be self-addressed additional sharply.

## III. PROPOSED SYSTEM

The nascent field of on-line newspaper exhibits an upscale region which may advantage considerably from automatic classification approach. This exhibited a compelling thanks to touch upon perceive the automated news website classification supported content attributes, structure attributes and address attributes of stories websites. we start with the perception that the simplest doable call of attributes will have a considerably have an effect on the performance of classification formula. we have a tendency to conjointly take into account the opposite structural attributes of stories websites for higher classification accuracy.

## ACKNOWLEDGMENT

The project was successfully completed under the guidance of our Head of Department, Dr. K.M. Gaikwad and Project Guide, Prof. S.T. Sawant Patil. We would like to thank them for all of their efforts and help which indeed helped us in completion of project and gain more knowledge through research and study.

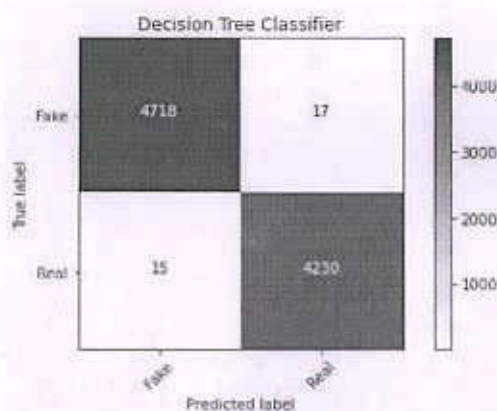
## REFERENCES

1. A. Douglas, "News consumption and the new electronic media," *The International Journal of Press/Politics*, vol. 11, no. 1, pp. 29–52, 2006. View at: [Publisher Site](#) | [Google Scholar](#)
2. J. Wong, "Almost all the traffic to fake news sites is from facebook, new data show," 2016. View at: [Google Scholar](#)
3. D. M. J. Lazer, M. A. Baum, Y. Benkler et al., "The science of fake news," *Science*, vol. 359, no. 6380, pp. 1094–1096, 2018. View at: [Publisher Site](#) | [Google Scholar](#)
4. S. A. García, G. G. García, M. S. Prieto, A. J. M. Guerrero, and C. R. Jiménez, "The impact of term fake news on the scientific community scientific performance and mapping in web of science," *Social Sciences*, vol. 9, no. 5, 2020. View at: [Google Scholar](#)
5. A. D. Holan, 2016 Lie of the Year: Fake News, Politifact, Washington, DC, USA, 2016.
6. S. Kogan, T. J. Moskowitz, and M. Niessner, "Fake News: Evidence from Financial Markets

## RESULTS:-

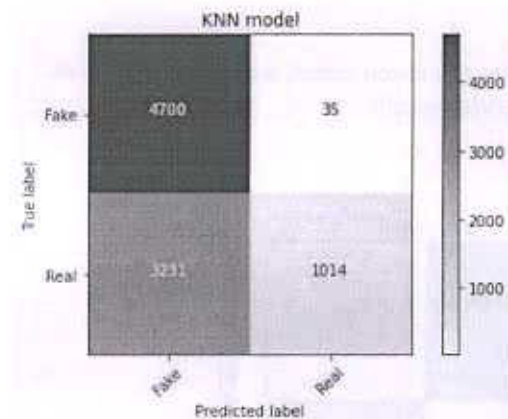
### 1. Decision Tree Classifier :

accuracy: 99.76% Confusion matrix, without normalization  
Text(0.5, 1.0, 'Decision Tree Classifier')



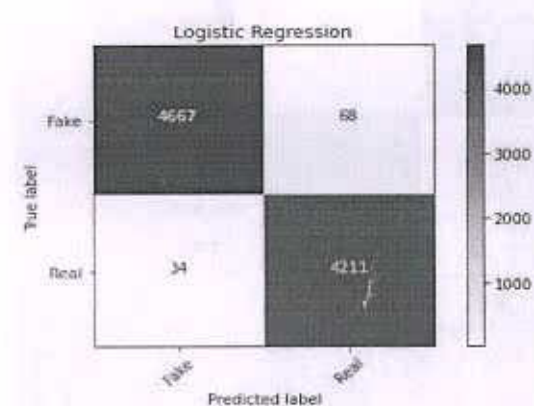
### 2. KNN :

accuracy: 63.93% Confusion matrix, without normalization  
Text(0.5, 1.0, 'KNN model')



### 3. Logistic Regression :

accuracy: 98.86% Confusion matrix, without normalization  
Text(0.5, 1.0, 'Logistic Regression')



## CERTIFICATE

This is to certify that the seminar report entitled

### **Covid-19 Assist System using Image Processing Technique**

Submitted By

<b>Shreyash P. Govande</b>	<b>Exam. No: B150433046</b>
<b>Ganesh P. Bhramanna</b>	<b>Exam. No: B150433017</b>
<b>Vaibhav N. Matkar</b>	<b>Exam. No: B150433081</b>
<b>Rujuta S. Poman</b>	<b>Exam No: B150433114</b>

Is a bonafide work carried out by them under the supervision by Prof. Mrs. P.R. Shahane and it is approved for the partial fulfilment of the requirement of **Savitribai Phule Pune University** for the Project Part-I in the Final Year of Electronics and Telecommunication Engineering.

This Seminar report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

  
**Mrs. P.R. Shahane**

**Guide**

  
**Dr. K.M. Gaikwad**

**H.O.D and Vice Principal**

  
**Dr. Kishore P. Patil**

**Principal, SAOE, Pune**

Place: Pune

Date: 15/06/2021

  
**Examiner**