Project Work Evaluation Scheme

Project work is an opportunity for the students to implement the knowledge gained while learning theory and practical courses and hence is an essential part of engineering education. Students get two opportunities to work on the projects during their undergraduate program.

1. **Project Identification and Faculty Members allocation:**

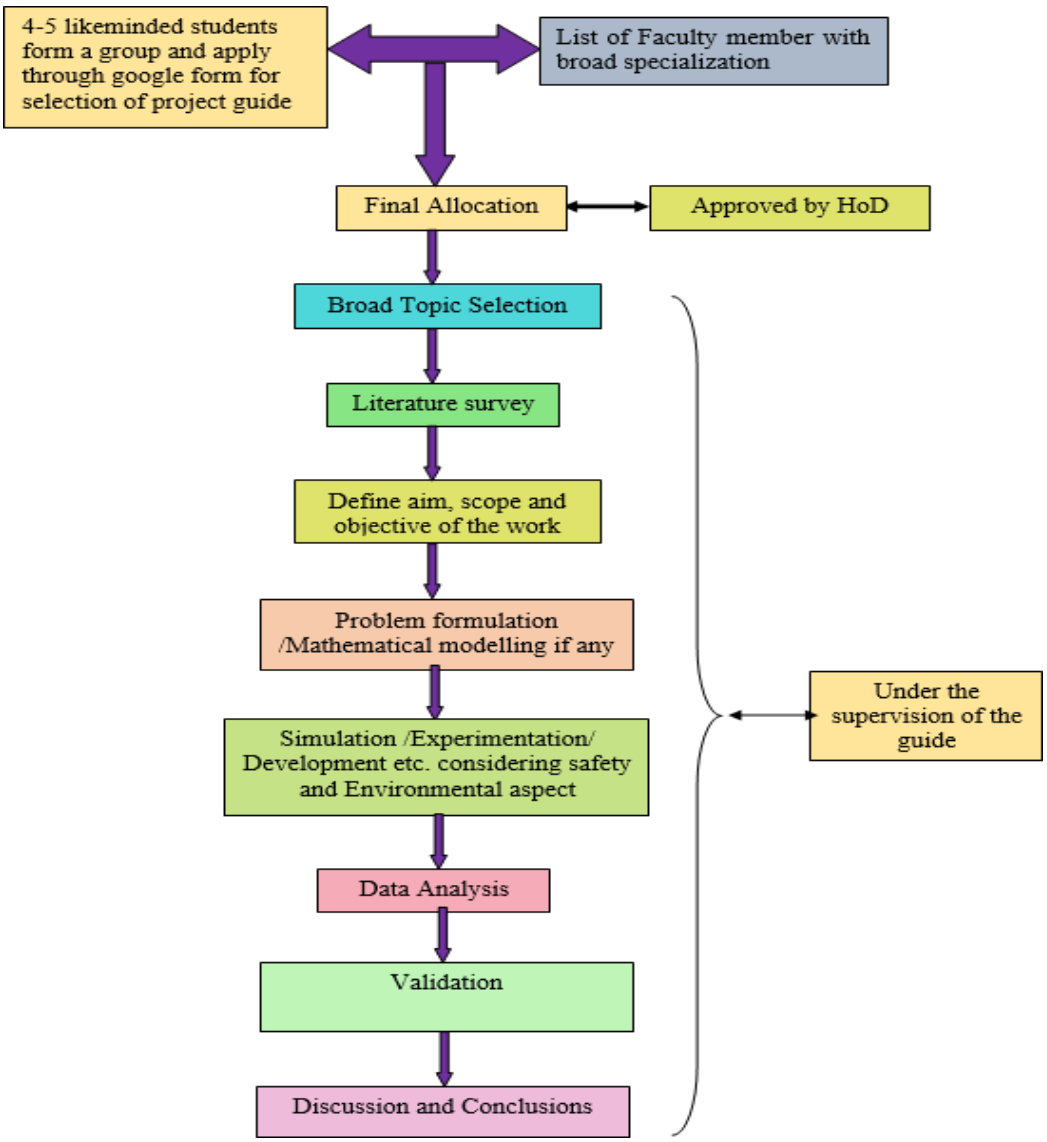

Fig. The flow chart for Project Selection and Allotment

The first project work, "Technical project for community services," is carried out during the sixth semester of the program and the major project work during the seventh and eighth semester of the final year of graduation. The following procedure is followed for ensuring the quality of students' projects.

During the sixth semester, a dedicated faculty is assigned for each batch of students to guide the students. Students carry out projects, particularly for community services. In the final year project, Students are informed to form the project group comprising a maximum of four students in a group. It is expected that the group is diversified. i.e., comprising both bright and weak students, as well as boys and girls. Industries are identified for undergoing internship and project work the formal MOU is established with the industry. Students are informed about the available sectors. Faculty members choose the industry according to their area of interest Students give their preference for industry and guide. The mapping of the faculty-industry-students project group is done in the departmental meeting. Under the guidance of their guide, the project group visits the industry and discusses with the industry authorities. The project to be undertaken is finalized by the mutual understanding of the industry representative and the faculty. When the project work is not carried out in a specific industry, mainly when the nature of the project requires working with more than one industry or a research project, the project guide for the project group decides the nature of the project. The Head of Department / Project Coordinator allocates laboratory resources for in-house projects and allocates the number of days per week for working on the projects in the industry (if the project is being carried out in the industry). The Head of Department / Project Coordinator lists the types of projects based on design, analysis, development, manufacturing, environment, safety, etc. i.e., application-based, product development-based, or Research-based projects. All projects carried out by the students are categorized based on application-based projects, products-based, research-based, and review-based.

2. Rubric for Project Assessment:

Project evaluation is carried out in 7th as well as 8th semester where students present their work before the guide and project guides panel from the same department. Evaluation is carried out based on various criterion of Rubrics and general criteria as follows:

- Project idea understanding and percentage of project completion
- Presentation, demonstration and documentation skills

- Evaluation is carried out on individual basis as well as on team performance
- At the end of the academic year, students present and demonstrate their work to the expert from an industry/ Academician from other institution and the project guide

RUBRICS FOR PROJECT PHASE -I EVALUATION:

Sr. No	**Agenda**	**Review Assessment Weightage (Percentage)**	**Over all Weightage (Percentage)**
1	Synopsis Presentation-I	20	
2	Project Phase-I Evaluation	30	
3	Project Report Evaluation	30	
4	Evaluation by Guide	20	100

RUBRICS FOR PROJECT PHASE - II EVALUATION:

Sr. No	**Particulars**	**Review Assessment Weightage** (Percentage)	**Over all Weightage (Percentage)**
1	Project Phase II Evaluation	80	
2	Project Report Evaluation	20	100

Synopsis Presentation-I Evaluation:

The synopsis presentation-I evaluation is carried out preferably to clear the student project idea and check if any duplication and improvement required. The total weightage for this review is 20% in overall marks. The marks distribution and rubrics is shown in the below table. . The evaluation is done by guide

- **Synopsis Presentation-I Evaluation Rubric:**

PO Mapping		Max Marks	Excellent (91%-100%)	Good (75 %-90%)	Average (50% -74 %)	Score
PO5,PO6, PO10 PO11, PO 12	Purpose of the Project	20	Provides a detailed intended outcome of the project which includes information about the problem that was being solved or the need being met, clearly articulates the reasons and decision-making process used to select the project	Provides a description of the intended outcome of the project which includes information about the problem that was being solved or the need being met, and why the project was selected	Does not clearly explain the intended outcome of the project or provides little information about the problem that was being solved, the need being met, or why the project was selected	
PO7, PO5, PO6	Literature survey and detailed analysis	20	Detailed and extensive explanation of the specifications and the limitations of the existing systems	Moderate study of the existing systems; collects some basic information	Minimal explanation of the specifications and the limitations of the existing systems; incomplete information	
	Objectives and		All objectives of the proposed work are well defined; Steps to	Incomplete justification to the objectives proposed; Steps are	Objectives of the proposed work are either not identified	

PO Mapping		Max Marks	Excellent (91%-100%)	Good (75 %-90%)	Average (50% -74 %)	Score
PO5, PO6	Methodology of the Proposed Work	20	be followed to solve the defined problem are clearly specified	mentioned but unclear; without justification to objectives	or not well defined; Incomplete and improper specification	
PO11,PO 12, PSO1,PS O2	Future Scope, Advantages and Disadvantages	20	Future scope of the proposed system is clearly defined; Advantages and disadvantages of the system clearly specified	Incomplete justification to the future scope proposed; Steps are mentioned but unclear; without justification to advantages and disadvantages	Future scope of the proposed work are either not identified or not well defined; Incomplete and improper specification about advantages and disadvantages	
PO10, PO9	Presentati on Skills	20	Slides are error-free and logically present the main components of the process and recommendations. Speakers are audible and fluent on their topic, and do not rely on notes to present or respond	Slides are error-free and logically present the main components of the process and recommendations. Speakers are mostly audible and fluent on their topic, and require minimal referral to notes.	Slides contain errors and lack a logical progression. Major aspects of the analysis or recommendations are absent. Speakers are often inaudible often hesitant, often speaking in incomplete sentences. Speakers rely heavily on notes.	
					Total marks out of 100	

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

- **Project Phase-I Evaluation Rubric:**

Level of Achievement							
PO Mapping		**Max Marks**	**Excellent (91%-100%)**	**Good (81-90 %)**	**Average (61% to 80 %)**	**Poor (40-60%)**	**Score**
PO5, PO6	Design Methodology	40	Divison of problem into modules and good selection of computing framework Appropriate design methodology and properly justification	Divison of problem into modules and good selection of computing framework Design methodology not properly justified	Divison of problem into modules but inappropriate selection of computing framework Design methodology not defined properly	Modular Approach not adopted Design methodology not defined	
PO8 PO9, PO10 PO11	Planning of Project Work and Team Structure	30	Time frame properly specified and being followed Appropriate distribution of project work	Time frame properly specified and being followed Distribution of project work inappropriate	Time frame properly specified, but not being followed Distribution of project work un-even	Time frame not properly specified In-appropriate distribution of project work	
PO10, PO11	Demo-nstration and Presentation	30	Objectives achieved as per time frame Contents of presentations are appropriate and well arranged Proper eye	Objectives achieved as per time frame Contents of Presentation are appropriate but not well arranged Satisfactory demonstration, clear	Objectives achieved as per time frame Contents of presentations are appropriate but not well arranged Presentation not Satisfactory and	No objectives achieved Contents of presentations are not appropriate and not well delivered Poor delivery of	

Level of Achievement							
PO Mapping		**Max Marks**	**Excellent (91%-100%)**	**Good (81-90 %)**	**Average (61% to 80 %)**	**Poor (40-60%)**	**Score**
			contact with audience and clear voice with good spoken language	voice with good spoken language but eye contact not proper	average demonstration	presentation	
					Total Marks Out of 100		

- **Project Report Evaluation Rubric:**

Level of Achievement							
PO Mapping		**Max Marks**	**Excellent (91%-100%)**	**Good (81-90 %)**	**Average (61% to 80 %)**	**Poor (40-60%)**	**Score**
PO10 PO11, PO12	Project Report	40	Project report is according to the specified format References and Citations are Appropriate and well mentioned	Project report is according to the specified format References and citations are appropriate but not mentioned well	Project report is according to the specified format but some mistakes In-sufficient references and citations	Project report not prepared according to the specified format References and citations are not appropriate	
PO8, PO5	Description of Concepts and Technical	40	Complete explanation of the key concepts Strong description of the technical requirements of the project Result are presented in very appropriate	Complete explanation of the key concepts In-sufficient description of the technical requirements of the project Results are presented in good manner	Complete explanation of the key concepts but little relevance to literature In-sufficient description of the technical requirements of the project Results	Inappropriate explanation of the key concepts Poor description of the technical requirements of the project Results are not presented properly	

Level of Achievement							
PO Mapping		**Max Marks**	**Excellent (91%-100%)**	**Good (81-90 %)**	**Average (61% to 80 %)**	**Poor (40-60%)**	**Score**
	Details		manner		presented are not much Satisfactory		
PO10	Conclusion and Discussion	20	Project work is well summarized and concluded Future extensions in the project are well specified	Project work Summary and conclusion not very appropriate Future extensions in the project are specified	Project work summary and conclusion not very appropriate Future extensions in the project are specified	Project work is not summarized and concluded Future extensions in the project are not specified	
					Total Marks out of 100		

- **Guide's Evaluation Rubric:**

Level of Achievement						
PO Mapping		Max Marks	Excellent (91%-100%)	Good (75 %-90%)	Average (50% -74 %)	Score
PO10, PO11	Working within a Team	25	Collaborates and communicates in a group situation and integrates the views of others	Exchanges some views but requires guidance to collaborate with others.	Makes little or no attempt to collaborate in a group situation	
PO5,PO6 PO12	Technical Knowledge and Awareness related to the Project	25	Extensive knowledge related to the project	Fair knowledge related to the project	Lack of sufficient knowledge	
PO8	Regularity	25	Reports to the guide regularly and consistent in work	Not very regular but consistent in the work	Irregular in attendance and inconsistent in work	
PO10, PO8	Presentation	25	Proper eye contact with audience and clear voice with good spoken language	Clear voice with good spoken language but less eye contact with audience	Poor delivery of presentation	
				Total Marks out of 100		

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

Project Phse II Evaluation Rubrics:

Level of Achievement							
PO Mapping		Max Marks	Excellent (91%-100%)	Good (81-90 %)	Average (61% to 80 %)	Poor (40%-60%)	Score
PO8, PO10, PO12	Incorporation of Suggestions	25	Changes are made as per Modifications suggested during Project Phase-I evaluation and new innovations added	Changes are made as per modifications suggested during Project Phase-I evaluation and good justification	Few changes are made as per modification a suggested during Project Phase-I evaluation	Suggestions during Project Phase-I evaluation are not incorporated	
PO5, PO6 PO10, PO11	Project Demonstration	25	All defined objectives are achieved Each module working well and properly demonstrated All modules of project are well integrated and system working is accurate	All defined objectives are achieved Each module working well and properly demonstrated Integration of all modules not done and system working is not very satisfactory	Some of the defined objectives are achieved Modules are working well in isolation and properly demonstrated Modules of project are not properly integrated	Defined objectives are not achieved Modules are not in proper working form that further leads to failure of integrated system	
PO10	Presentation	25	Contents of presentations are appropriate and well delivered Proper eye contact with audience and clear voice with good spoken language	Contents of presentations are appropriate and well delivered Clear voice with good spoken language but less eye contact with audience	Contents of presentations are not appropriate Eye contact with few people and unclear voice	Contents of presentation are not appropriate and not well delivered Poor delivery of	

Level of Achievement							
PO Mapping		Max Marks	Excellent (91%-100%)	Good (81-90 %)	Average (61% to 80 %)	Poor (40%-60%)	Score
						presentation	
PO8 PO10	Handling Questions	25	Answered all Questions with proper justification	Answered 80% questions	Answered 60% questions	Answered less than 40% question	
					Total Marks Out of 100		

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

Sample Evaluation of Student

Project Title: Gear Chamfering Machine

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING SATARA

Program with Code: Mechanical Engineering
Academic Year 2021-2022

Course : Synopsis Presentation-I Evaluation **Class: B.Tech** **Semester: VII**

Name of Student: KHILARE MUKUND HANMANT **PRN No.:51627020181161210012**

Sr No	Criteria	Max Marks	Excellent (91%-100%)	Good (75 %-90%)	Average (50% -74 %)	Score
a)	Purpose of the Project	**20**		88%		17.6
b)	Literature survey and detailed analysis	**20**		84%		16.8
c)	Objectives and Methodology of the Proposed Work	**20**	92%			18.4
d)	Future Scope, Advantages and Disadvantages	**20**		90%		18
e)	Presentation Skills	**20**		86%		17.2
					Total Marks out of 100	88

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING SATARA

Program with Code: Mechanical Engineering

Academic Year 2021-2022

Course : Project Phase -I Evaluation **Class: B.Tech** **Semester: VII**

Name of Student: KHILARE MUKUND HANMANT **PRN No.:51627020181161210012**

Sr No	Criteria	Max Marks	Excellent (91%-100%)	Good (81-90 %)	Average (61% to 80 %)	Poor (40-60%)	Score
a)	DesignMethodology	**40**	91%				36.4
b)	Planning of Project Work and Team Structure	**30**	91%				27.3
c)	Demonstration and Presentation	**30**		86%			25.8
						Total Marks out of 100	89.5

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING SATARA

Program with Code: Mechanical Engineering

Academic Year 2021-2022

Course :Evaluation by Guide **Class: B.Tech** **Semester: VII**

Name of Student: KHILARE MUKUND HANMANT **PRN No.:51627020181161210012**

Sr No	Criteria	Max Marks	Excellent (91%-100%)	Good (75 %-90%)	Average (50% -74 %)	Score
a)	Working within a Team	**25**		89%		22.25
b)	Technical Knowledge and Awareness related to the Project	**25**		86%		21.5
c)	Regularity	**25**		89%		22.25
d)	Presentation	**25**		87%		21.75
					Total Marks out of 100	87.75

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

Academic Year 2021-2022

Course : Project Report Evaluation **Class: B.Tech** **Semester: VII**

Name of Student: KHILARE MUKUND HANMANT **PRN No.:51627020181161210012**

Sr No	Criteria	Max Marks	Excellent (91%-100%)	Good (81-90 %)	Average (61% to 80 %)	Poor (40%-60%)	Score
a)	Project Report	**40**		88%			35.2
b)	Description of Concepts and Technical Details	**30**		85%			25.5
c)	Demonstration and Presentation	**30**		87%			26.1
						Total Marks out of 100	86.8

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING SATARA

Program with Code: Mechanical Engineering
Academic Year 2021-2022

Course : Project Phase -I **Class: B.Tech** **Semester: VII**

Name of Student: KHILARE MUKUND HANMANT **PRN No.:51627020181161210012**

Sr No	Criteria	Assessment Weightage	Total Marks out of 100	Marks as per weightage
1	Synopsis Presentation-I	20%	88	18
2	Project Phase-I Evaluation	30%	90	27
3	Project Report Evaluation	30%	87	26
4	Evaluation by Guide	20%	88	18
		Total Marks out of	**100**	**88**

Conversion out of	**25**	**22**

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING SATARA

Program with Code: Mechanical Engineering

Academic Year 2021-2022

Course : Project Phase -II Evaluation **Class: B.Tech** **Semester: VIII**

Name of Student: **PRN No.:**

Sr No	Criteria	Max Marks	Excellent (91%-100%)	Good (81-90 %)	Average (61% to 80 %)	Poor (40%-60%)	Score
a)	Incorporation of Suggestions	**25**		85%			21.25
b)	Project Demonstration	**25**		90%			22.5
d)	Presentation	**25**			80%		20
c)	Handling Questions	**25**		82%			20.5
						Total Marks out of 100	**84.25**

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING SATARA

Program with Code: Mechanical Engineering

Academic Year 2021-2022

Course : Project Report Evaluation **Class: B.Tech** **Semester: VIII**

Name of Student: **PRN No.:**

Sr No	Criteria	Max Marks	Excellent (91%-100%)	Good (81-90 %)	Average (61% to 80 %)	Poor (40%-60%)	Score
a)	Project Report	**40**		86%			34.4
b)	Description of Concepts and Technical Details	**30**		85%			25.5
c)	Demonstration and Presentation	**30**		82%			24.6
						Total Marks out of 100	**84.5**

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING SATARA

Program with Code: Mechanical Engineering
Academic Year 2021-2022

Course : Project Phase -II **Class: B.Tech** **Semester: VIII**

Name of Student: **PRN No.:**

Sr No	Criteria	Assessment Weightage	Total Marks out of 100	Marks as per weightage
1	Project Phase -II Evaluation	80%	84.25	67.4
2	Project Report Evaluation	20%	84.5	17
		Total Marks out of	**100**	**84**

Conversion out of	**50**	**42**

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

Project List 2022-23

Sr. No.	Title of project/ Project group	Type of Project Environmental / Industrial / Safety/ Research/ Societal/ Agricultural	Sponsored project
1.	Mulla Owais Kasam Ghone Kalam Shakil Kurunde Hritik Anil Mule Gaurav Anil	Industrial	Technotronics Technologies LLP Company, Satara
2.	Takale Yogesh Sunil Bendre Omkar Sachindeo Barge Ranjeet Manohar Gore Rushikesh Raju	Industrial	Technotronics Technologies LLP Company, Satara
3.	Dipak Ravindra Yadav Aman Rajan Deshmukh Sourabh Jagannath Waghmare	Industrial	Self Sponsored

	Nikhil Ashok Kamble		
4.	Pranav V. Babar Shaunak S. Abhayankar Jaydeep G. Mane Priti S. More	Research	Self Sponsored
5.	Shubham Shinde Gajanan Bhokare Anoop Disle Pallavi Salunkhe	Industrial	Self Sponsored
6.	Chandana Abaji Dange Aditi Raju Jagdale Shivrup Prakalp Chavan Swaraj Vijay Shinde	Industrial	Technotronics Technologies LLP Company, Satara

7.	Rohan Suresh Yadav Omkar Hindurao Chavan Tejas Dilip Kadam Shubham Yadav	Research	Self Sponsored
8.	Omkar Jagtap Shubham Jagtap Sachin Jadhav Vinit Vitthal Sawant	Research	Self Sponsored
9.	Shinde Raj Vijay Nalawade Chaitanya Vijay Manekar Nishant Shinde Ketan	Industrial	Rajas Engineering, Satara
10.	Omkar Suresh Kumbhar Atharva Ajay Jadhavrao Shubham Satish Bhosale Ajay Raju Pawar	Industrial	Phenix Polycontainers, Satara

11.	Pathan Ajahar Tajuddin Shinde Sanket Dattatray Kesarkar Rohan Ratikant Sapkal Tejas Sanjay	Industrial	Kavade Engineering, Satara
12.	Pawar Rajat Shridhar Sankpal Saish Prakash Kanade Utkarsh Namdev Kanade Chaitnya Namdev	Industrial	Self Sponsored
13.	Ashish Satish Raut Rahul Pawar Sourabh Sihasane	Industrial	Top Gear Transmissions, Addl. MIDC, Satara
14.	Harsha Phansalkar Karan Jadhav Ujjwal Gaikwad Ashwin Dushade	Industrial	Top Gear Transmissions, Addl. MIDC, Satara

15.	Kadam Yuvraj Vijay Kadam Atharva Arun Mandhave Ashish Vijay Shinde Akash Ganesh	Industrial	Self Sponsored

Details of the projects Academic Year 2021-2022

Sr. No.	Title of project	Type of Project (Environmental / Industrial / Safety/ Research/ Societal/ Agricultural)	Sponsored project
1.	Design & Development of Rotocure Cutting & Windup Unit	Industrial	Plot No. W-71, Additional MIDC M.I.D.C. SATARA.
2.	Design and Development of Electric Vehicle	Environmental and Research	Non Sponsored
3.	Design & Development of Vibrating Bowl Feeder	Industrial	Innovative Automation Products B24 old MIDC , Satara
4.	Design & Development of CoreXY 3D Printer	Research	Non Sponsored

5.	Rocker Bogie Mechanism In defence	Safety and Research	Non Sponsored
6.	Hydraulic scissor lift	Industrial	Shree tyres and services, At Saidapur Post Kondave , near Ranjeet Gujar hostel
7.	COVID 19 Fighter Robot	Societal	Non Sponsored
8.	Design and Manufacturing of Industrial Fixture	Industrial	Abhijat Equipments Pvt. Ltd., 19/4, Molacha Odha, Satara
9.	Dual Axis Solar Tracker	Environmental	Non Sponsored
10.	Cost Reduction in Automobile Plunger Workpiece	Industrial	Shreyash Industries Plot No D 14 M.I.D.C Karad Dist Satara
11.	Material Carrying Lift	Industrial	Sagar Enterprises L-89/5, ADD M.I.D.C. Satara
12.	Design & Development of Stock Guide Linear Aseembly	Industrial	Plot No. W-71, Additional MIDC M.I.D.C. SATARA.
13.	Piston Ring Mounting Machine	Research	Non sponsored

14.	Design & Development of Belt Conveyor	Industrial	Innovative Automation Products, B24 old MIDC,Satara
15.	Design and Development of Sugarcane node cutting machine	Agricultural	Non sponsored
16.	Design and Manufacturing of Industrial Fixture	Industrial	Abhijat Equipments Pvt. Ltd., 19/4, Molacha Odha, Satara

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of Mechanical Engineering

Details of the projects Academic Year 2020-2021

Sr.No.	Title of Project	Sponsored project from	Name of the students in a project group	Project Guide
	Single Minute exchange of Dies (SMED)	Mutha Engineering Pvt. Ltd. C-1 Add. MIDC, Satara	Bhat Aniket Shrikrishna Babar Viraj Rajendra Rajmane Shrishailya Rajesh Mahamulkar Giriraj Sunil	Prof. D. A. Ghatge
	Design of Turn Table welding Rotator	AR Engineering MIDC, Satara,	Dhane Umesh, Chavan Prathamesh Bobade Adarsh Harshada Lalge	Dr. H. A. Mandave
	Carbon Layer Cleaner	Kavitsu Automation H-48/7 Add. MIDC Satara	Sanket rajendra chikane Prashant sanjay gaikwad Vikrant satish barge Vinit vijay Jadhav	Prof. D. A. Ghatge
	Design and Manufacturing of Automatic Dust sealing machine	Kavitsu Automation H-48/7 Add. MIDC Satara	Ghorpade Manoj Vijay Lohar Nilesh Parshuram More Shubham Suresh Mane Aishwarya Sanjay	Prof. P. L.Jadhav
	Design of Deburing machine	Kavitsu Automation Add. MIDC Satara	Yadav Omkar Anil Patsute Rohan Dnyandev Mane Yash Hemant Barge Swapnil Ramesh	Prof. A. M. Shaikh
	HPDC Die Manufacturing process	Maharshtra Scooters Ltd. C-1 MIDC Satara	Ajay Ashok Sutar Jyoti Vitthal Kharat Mohit Ankush Raskar Shubham Hanmant Jadhav	Prof. S.S. Patil
	Material Optimization of Planetary Gear box	Precision Gear Transmission W-44 Add. MIDC Satara	Snehal Sunil Sasane Satyam Sunil Shelar Omkar baliram shinde	Prof. S.S. Patil

			Gaurav shivram gaikwad	
	Design and Development of Swing Grinding Fixtures	Dhanashree Pvt. Ltd. MIDC Satara	Shinde Ketan Shinde Akasha Uthale Pratik Zagade Swapnil	Prof. P. L.Jadhav
	Rotary Table for multi-face operation	Top Gear Transmission M-70 Add. MIDC Satara	Abhijeet Bhanudas Godse Hardik sudhakar raut Shubham jaganath Khusape Nikhil ashok lokhande	Prof. A. M. Shaikh
	Increase Productivity for Powder coating	Mutha Foundaries Pvt. Ltd. Satara	Abhishek Patole Shahrukh Mulani Shivam Avale Omkar Dorke	Prof. P. P. Patil
	3D Printing of Dual wishbone type suspension system	Technotronics Technologies LLP. Plot No. 16 and 17 Shri Jai Bhavani Nagar Near Shivraj Petrol Pump Satara	Sawant Poonam Kumbhar Nisha Mane Komal Kale Dhanshree	Prof. M.Y.Shinde
	Design and development of Bevel gear lapping machine	Top Gear Transmission Add. MIDC Satara	Shraddha Santosh Supekar Saurabh Sopan Jagdale Akshay Mansing Shedge Vihar Viram Shaha	Prof. D. A. Ghatge
	Design and development of emergency of ventilator	Self Sponsored	Gourish Deshpande Sourabh Pujari Aditi Sawant Shivanjali Gadhave	Prof. N. V. Malavade
	Design and development of Screw Conveyor	Kavade Industies Pvt. Ltd. Add. MIDC Satara	Harshada Jagatap Aditya Kulkarni Suraj mane Pruthviraj Waikar	Prof. N. V. Malavade

	Reduction in Power Consumption of Induction Furnace	Mutha Engineering Pvt. Ltd. C-1 Add. MIDC, Satara	Lahigude shubham Mahesh Bhosale Shubham Pradeep Bhutkar Hemant Tulashidas Madane Akshay Manikrao	Prof. S.R. Nipanikar
	Injection Mould storage rack	Win- Win Technologies Add. MIDC Satara	Dudhankar Jay Kapil Jadhav Ashwin Arjun Kumbhar Akash Gorakh Dalavi Akash Ravindra	Dr. H. A. Mandave
	Three Roller sugar crane Crushing Machine	M/S Sadguru Pvt. Ltd. MIDC. Wai, Satara	Shreyas mahesh kapare Shivam pravin gaikwad Manish dilip kamble Akash suresh gaikwad	Prof. A.B. Pisal
	Domestic shredar machine	M/S Morya Pvt. Ltd. Add. MIDC Satara	Yash shinde kshitij mane pranav Bodake shafin naikude	Prof. A.B.Pisal