



Policy for Student Projects

The students carry out their major project work in the final year. The Department must follow standard procedures to ensure that students do a quality project. The students select a project in line with their area of interest. Students are encouraged to do project work on real world examples and in line with department Vision, Mission, Program outcomes & Program specific outcomes. Appropriate methodologies to be followed in place to monitor the Project work continuously till the end of the project.

Identification of Projects and allocation methodology to faculty members

- HODs must inform the students well in advance at the end of 6th semester (before going for summer training) that they have to prepare and submit a topic for their project along with one page write-up/proposal about the project in a group which usually consists of 2-4 students which is to be submitted to their respected HODs at the starting of 7th semester.
- After the submission of the proposal HODs must form a Project Assessment Committee which will be headed by HOD. The committee will evaluate all the proposals submitted by students and will either accept or reject the proposal based on the feasibility of the project and alignment with the department's vision, mission, POs and PSO's.

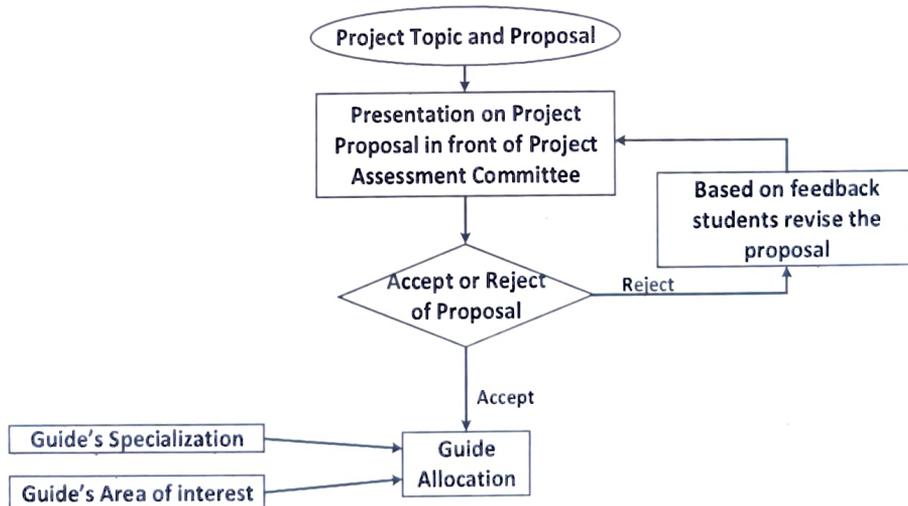


Figure 1: Flow chart for Identification of Projects and allocation methodology to faculty members



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- The groups whose project will be rejected must resubmit the revised or new proposal for review to HOD/ Project Assessment Committee until approved by the HOD/ Project Assessment Committee.
- The approved projects to be allotted by the HODs to the faculty members keeping in mind their specialization and area of interest. One faculty must guide 4-5 projects in an year.
- The allotted guide will then guide the students throughout the year and continuously evaluate each and every student individually. It will be the responsibility of the guide along with project group members to properly map the project with the POs and PSOs considering Ethics, Cost, and Standards etc in mind.


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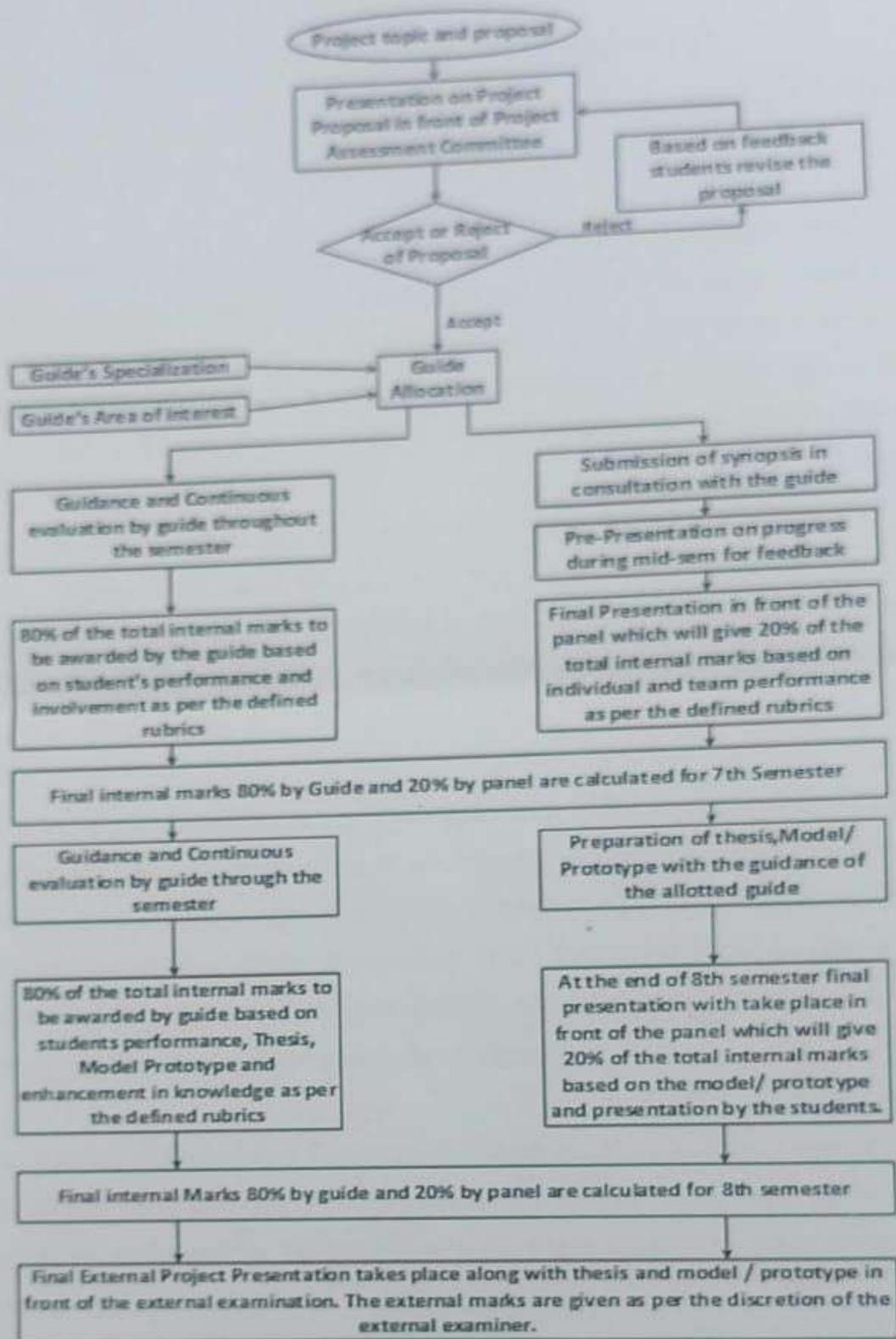


Figure 2: Process flowchart for Project

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Process for Monitoring and Evaluation of Project

Steps to monitor the final year project work by Project Guide & Panel members:

- The project work is spanned over one year as per University Evaluation Scheme. Progress is to be continuously monitored by Guide and Project Assessment Committee.
- The Internal marks are to be awarded on the basis of continuous evaluation of the Project by the guide and Panel formed by the Head of the Department. In the odd semester of final year apart from guide's continuous assessment the students have to give presentation on their progress twice in a semester in front of a panel which is called as pre-presentation and one final presentation at the end of the odd semester in which rubrics is to be used to evaluate students on different parameters.
- In 7th semester after allocation of guide the students need to submit synopsis of their project to the department in consultation with their guide as per pre-defined format (**Attachment- 1**). After synopsis each group needs to give presentation on their progress once around mid-semester which is called pre-presentation and one at the end of 7th semester which is called final presentation as per pre-defined format (**Attachment- 2**).
- As per AKTU's evaluation scheme for 7th semester out of total internal marks for project, 80% of these marks are to be given by the guide of the project after continuous monitoring based on rubrics as per defined format (**Attachment- 3**) and 20% marks are to be given based on the final presentation of 7th semester by the panel formed by the head of the department based on rubrics as per defined format (**Attachment- 4**). All the internal assessments are to be made keeping in mind the team work by the group and individual performance by the students.
- Similarly in the even semester of final year apart from guide's continuous assessment the students will give final internal presentation at the end of the semester along with the project report and model/prototype developed by the group based on which students to be evaluated by the panel formed by the head of the department on different parameters.
- As per AKTU's evaluation scheme for 8th semester out of total internal marks for project, 80% of these marks are to be given by the guide of the project after continuous monitoring based on rubrics


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as per defined format (**Attachment- 5**) and 20% marks are to be given based on the final presentation of 8th semester by the panel formed by the head of the department based on rubrics as per defined format (**Attachment- 6**). All the internal assessments are made keeping in mind the team work by the group and individual performance by the students.

- At the end of even semester, the final external project presentation will take place in which external examiner comes from the affiliating university. The project report and model/prototype is to be submitted by the student groups. Final evaluation of individual and team performance will be based on the presentation, report submitted, and model/prototype developed and external viva-voce in the presence of external examiner. The external marks are to be totally given as per the discretion of the external examiner.

Prof.(Dr.) Surya Prakash Tripathi

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Encl.

1. Attachment 1- Format for Project Synopsis
2. Attachment 2- PPT Format
3. Attachment 3- Guide's Rubric Evaluation Porcess (Sem 7)
4. Attachment 4- Panel Rubric Evaluation Porcess (Sem 7)
5. Attachment 5- Guide's Rubric Evaluation Porcess (Sem 8)
6. Attachment 6- Panel Rubric Evaluation Porcess (Sem 8)

Format for Project Synopsis

TITLE PAGE

INTRODUCTION (should not exceed 3 pages)

The introduction part will include the brief introduction about the project to be developed, technology used, field of project (if specialized one), any special technical terms about the project.

Literature Survey: (should not exceed 2 pages)

This will describe the previous work which is done by the various authors/developers related to the project and already running project at any location.

Methodology/ Planning of work (should not exceed 1 page)

Methodology will include the steps to be followed to complete the project during the project development.

Facilities required for proposed work

Software/Hardware required for the development of the project.

References

Here specify the description of the study material referred for the development of the project.


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SPECIFICATIONS FOR SYNOPSIS

1. The synopsis shall be computer typed (Font -Times New Roman, paragraph Size-12 point & Heading Size-14 point in upper case) and printed on A4 size paper.
2. The Synopsis shall be typed on one side only with 1.5 spacing with a margin 2.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom.
3. The diagrams should be printed on a light/white background; Tabular matter should be clearly arranged. Decimal point may be indicated by full stop (.)The caption for Figure must be given at the Bottom of the Fig. and Caption for the Table must be given at the TOP of the Table.



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PPT FORMAT

Slide 1: Title Slide

- Title of the Project
- Your Roll Numbers with Name(s)
- Department/Organization Name
- Date

Slide 2: Introduction

Slide Content:

- **Project Overview:** A brief introduction to the project.
- **Technology Used:** Mention technologies/tools involved.
- **Field of Project:** Specify if the project is specialized in a certain field.
- **Key Technical Terms:** Highlight any special technical terms.

Visuals/Design Suggestions:

- Relevant icons or images representing the project field/technology.
- Use bullet points for concise information.

Slide 3: Literature Survey

Slide Content:

- **Previous Work:** Summarize significant contributions by authors/developers in the field.
- **Existing Projects:** Highlight similar projects currently in operation.

Visuals/Design Suggestions:

- Use references or citations at the bottom.

Slide 4: Methodology/Planning of Work

Slide Content:

- **Step-by-Step Plan:** Describe the steps to complete the project.
- **Timeline (if applicable):** Outline a project schedule.

Visuals/Design Suggestions:

- Use a flowchart or process diagram to illustrate the steps.

Slide 5: Facilities Required

Slide Content:

- **Hardware Requirements:** List devices and equipment.
- **Software Requirements:** Mention tools, libraries, or platforms needed.

Visuals/Design Suggestions:

- Use a table format for a clear breakdown of hardware/software.
- Include icons to represent hardware/software components.

Slide 6: References

Slide Content:

- List all books, articles, and other materials referenced.
- Follow a standard citation style (APA, IEEE, etc.).

Visuals/Design Suggestions:

- Keep it simple and text-focused.
- Use a numbered or bullet format for the reference list.


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Guide's Rubric Evaluation Process

1.0 Details of each student rubric are to be entered in this sheet.

The guide has to evaluate and give points from 1 to 4 to each student based on the following four parameters. The weightage of each parameter out of 30 is as per the table given below.

Parameters	Regularity	Technical Knowledge and Awareness Related to the Project	Working Within a Team	Implementation, Experimental Results and Analysis
Weightage	10.5	10.5	5.5	3.5

For example the grades of the student is calculated as per the tables given below

Project Topic – XXXXXXXXXX

S.No	Roll Number	Name	Regularity	Technical Knowledge and Awareness Related to the Project	Working Within a Team	Implementation, Experimental Results and Analysis
1	XXXXX	XXXXX	4	2	3	4

	Poor	Fair	Good	Excellent
	1 pts	2pts	3 pts	4 pts
Regularity <i>(Individual Work)(10.5)</i>	Very Irregular in attendance and inconsistent in work	Irregular in attendance and inconsistent in work	Not very regular but consistent in the work	Reports to the guide regularly and consistent in work ✓
Technical Knowledge and Awareness Related to the Project <i>(Individual Work)(10.5)</i>	Lacks sufficient knowledge	Fair knowledge related to the project ✓	Fair knowledge related to the project	Extensive knowledge related to the project
Working Within a Team <i>(Team work)(5.5)</i>	Makes little or no attempt to collaborate in a group situation	Exchanges some views but requires guidance to collaborate with others.	Exchanges some views but requires guidance to collaborate with others. ✓	Collaborates and communicates in a group situation and integrates the views of others
Implementation, Experimental Results and Analysis <i>(Team work)(3.5)</i>	Implementation and experimental analysis done in moderate way. Results to be retrieved moderately identified	Implementation and experimental analysis done in moderate way. Results to be retrieved moderately identified	Implementation and Experimental analysis done in proper way. Results to be retrieved identified	Implementation and experimental analysis done in quite effective way. Results to be retrieved identified at large. ✓

2.0 Overall grade is calculated by finding weighted average of the above (upto 1 decimal) Director

2.0 Overall grade is calculated by finding weighted average of the above (upto 1 decimal)

$$\frac{10.5 \times 4 + 10.5 \times 2 + 5.5 \times 3 + 3.5 \times 4}{10.5 + 10.5 + 5.5 + 3.5}$$

Grade: 3.1

3.0 After calculating overall grade overall marks are calculated by interpolation from the following table

Grade	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	
Marks	28-30	31-33	34-36	37-39	40-42	43-45	46-48	49-51	52-54	55-57	
Grade	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	
Marks	58-60	61-63	64-66	67-69	70-72	73-75	76-78	79-81	82-84	85-87	
Grade	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4
Marks	88-90	91-93	94-96	97-99	100-102	103-105	106-108	109-111	112-114	115-117	118-120


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Panel Rubric Evaluation Process

1. Index, Courses & NBA coding, Course outcome, CO-PO mapping are same as theory courses file.
2. **Project Topics:** - Detail of topics as given by students to be populated here
3. **Project Rubric Data:** -
 - 3.1. Details of each student rubric are to be entered in this sheet.

			Scope	Subject Knowledge	Literature Review	Methodology & System Design	Implementation	Project Synopsis
S.No	Roll Number	Name	1	1	1	1	1.5	2
1	XXXXX	XXXXX	3	3	4	4	4	4

The above grading is entered as per tick marks in the rubric sheet of that student

Presentation Rubric

	Poor	Fair	Good	Excellent
	1 pts	2 pts	3 pts	4 pts
Scope of the Problem and Relevance of the Project (01) (Team work)	Scope the Problem is limited to small domain and Relevancy of the Project is poor.	Scope the Problem represent moderate domain and Relevancy of the Project is moderate	Scope the Problem represent larger domain and Relevancy of the Project is identified at large	Scope the Problem represent common domain and Relevancy of the Project Is identified at large
Subject Knowledge (01) (Individual Work)	Student does not have grasp of information; student cannot answer questions about subject.	Student is uncomfortable with information and is able to answer only rudimentary questions.	Student is at ease with expected answers to all questions, but fails to elaborate.	Student demonstrates full knowledge (more than required) by answering all class questions with explanations and elaboration.
Literature Review (01) (Team work)	Student done less Literature review	Student done moderate Literature review	Student done good Literature review	Student done effective Literature review
Methodology & System Design (01) (Team work)	System Analysis and System design not done at par. Methodology used is also need to improve	System Analysis and System design done moderately. But Methodology used is at par	System Analysis and System design done in a proper way. And Methodology used is at par	System Analysis and System design done in a effective way. And Methodology used is at par
Implementation, experimental results and analysis (1.5) (Team work)	Implementation and experimental analysis not done in proper way. Results to be retrieved less identified	Implementation and experimental analysis done in moderate way. Results to be retrieved moderately identified	Implementation and experimental analysis done in proper way. Results to be retrieved identified	Implementation and experimental analysis done in quite effective way. Results to be retrieved identified at large
Presentation (02) (Individual Work)	Presentation is not done in proper way	Presentation done in proper way but requirement some improvement	Presentation done in proper way	Presentation done in quite impressive way.


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3.2 Overall grade is calculated by finding weighted average of the above (upto 1 decimal)

$$\frac{1 \times 3 + 1 \times 3 + 1 \times 4 + 1 \times 4 + 1.5 \times 4 + 2 \times 4}{1 + 1 + 1 + 1 + 1.5 + 2}$$

Grade: 3.7

3.3 After calculating overall grade overall marks are calculated by interpolation from the following table

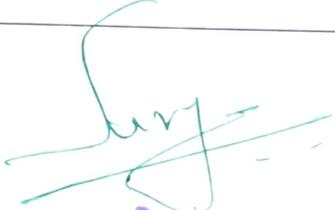
Grade	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	
Marks	0	1	2	3	4	5	6	7	8	9	
Grade	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	
Marks	10	11	11	13	14	15	16	17	18	19	
Grade	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4
Marks	20	21	22	23	24	25	26	27	28	29	30

3.4 Performance is calculated from overall grade

Between 0 to 1	Poor
Between 1.1 to 2	Fair
Between 2.1 to 3	Good
Equal to 3.1 to 4	Excellent

3.5 Reports at HOD Level

Performance	Number of Students	Remarks
Poor		
Fair		
Good		
Excellent		


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Guide's Rubric Evaluation Process

1.0 Details of each student rubric are to be entered in this sheet.

The guide has to evaluate and give points from 1 to 4 to each student based on the following four parameters. The weightage of each parameter out of 20 is as per the table given below.

Parameters	Regularity	Technical Knowledge and Awareness Related to the Project	Working Within a Team	Implementation, Experimental Results and Analysis
Weightage	8	6	4	2

For example the grades of the student is calculated as per the as per the tables given below

Project Topic – XXXXXXXXX

S.No	Roll Number	Name	Regularity	Technical Knowledge and Awareness Related to the Project	Working Within a Team	Implementation, Experimental Results and Analysis
	XXXXX	XXXXX	1	2	3	4

	Poor 1 pts	Fair 2pts	Good 3 pts	Excellent 4 pts
Regularity (Individual Work)(8)	Very Irregular in attendance and inconsistent in work ✓	Irregular in attendance and inconsistent in work	Not very regular but consistent in the work	Reports to the guide regularly and consistent in work
Technical Knowledge and Awareness Related to the Project (Individual Work)(6)	Lacks sufficient knowledge	Fair knowledge related to the project ✓	Fair knowledge related to the project	Extensive knowledge related to the project
Working Within a Team (Team work)(4)	Makes little or no attempt to collaborate in a group situation	Exchanges some views but requires guidance to collaborate with others.	Exchanges some views but requires guidance to collaborate with others. ✓	Collaborates and communicates in a group situation and integrates the views of others
Implementation, Experimental Results and Analysis (Team work)(2)	Implementation and experimental analysis done in moderate way. Results to be retrieved moderately identified	Implementation and experimental analysis done in moderate way. Results to be retrieved moderately identified	Implementation and Experimental analysis done in proper way. Results to be retrieved identified	Implementation and experimental analysis done in quite effective way. Results to be retrieved identified at large ✓

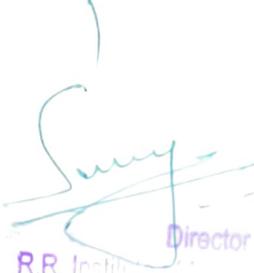
2.0 Overall grade is calculated by finding weighted average of the above (upto 1 decimal)

$$\frac{8 \times 1 + 6 \times 2 + 4 \times 3 + 2 \times 4}{8 + 6 + 4 + 2}$$

Grade: 2.0

3.0 After calculating overall grade overall marks are calculated by interpolation from the following table

Grade	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	
Marks	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	
Grade	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	
Marks	40	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	
Grade	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4
Marks	59-60	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80


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Project Policy for Rubrics

1. Index, Courses & NBA coding, Course outcome, CO-PO mapping are same as theory courses file.
2. **Project topics:** - Detail of topics as given by students to be populated here
3. **Project Rubric data:** -
 - 3.1. Details of each student rubric are to be entered in this sheet.

S.No	Roll Number	Name	Scope	Subject Knowledge	Literature Review	Methodology & System Design	Implementation	Project Synopsis
			1	1	0.5	0.5	1	1
1	XXXXX	XXXXX	3	3	4	4	4	4

The above grading is entered as per tick marks in the rubric sheet of that student

Presentation Rubric

	Poor	Fair	Good	Excellent
	1 pts	2 pts	3 pts	4 pts
Scope of the Problem and Relevance of the Project (01) (Team work)	Scope the Problem is limited to small domain and Relevancy of the Project is poor.	Scope the Problem represent moderate domain and Relevancy of the Project is moderate	Scope the Problem represent larger domain and Relevancy of the Project is identified at large ✓	Scope the Problem represent common domain and Relevancy of the Project is identified at large
Subject Knowledge (01) (Individual Work)	Student does not have grasp of information; student cannot answer questions about subject.	Student is uncomfortable with information and is able to answer only rudimentary questions.	Student is at ease with expected answers to all questions, but fails to elaborate ✓	Student demonstrates full knowledge (more than required) by answering all class questions with explanations and elaboration.
Literature Review (0.5) (Team work)	Student done less Literature review	Student done moderate Literature review	Student done good Literature review	Student done effective Literature review ✓
Methodology & System Design (0.5) (Team work)	System Analysis and System design not done at par. Methodology used is also need to improve	System Analysis and System design done moderately. But Methodology used is at par	System Analysis and System design done in a proper way. And Methodology used is at par	System Analysis and System design done in a effective way. And Methodology used is at par ✓
Implementation, experimental results and analysis (01) (Team work)	Implementation and experimental analysis not done in proper way. Results to be retrieved less identified	Implementation and experimental analysis done in moderate way. Results to be retrieved moderately identified	Implementation and experimental analysis done in proper way. Results to be retrieved identified	Implementation and experimental analysis done in quite effective way. Results to be retrieved identified at large ✓
Presentation(01) (Individual Work)	Presentation is not done in proper way	Presentation done in proper way but requirement some improvement	Presentation done in proper way	Presentation done in quite impressive way. ✓

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3.2 Overall grade is calculated by finding weighted average of the above (upto 1 decimal)

$$\frac{1 \times 3 + 1 \times 3 + 0.5 \times 4 + 0.5 \times 4 + 1 \times 4 + 1 \times 4}{1 + 1 + 0.5 + 0.5 + 1 + 1}$$

Grade: 3.6

3.3 After calculating overall grade overall marks are calculated by interpolation from the following table

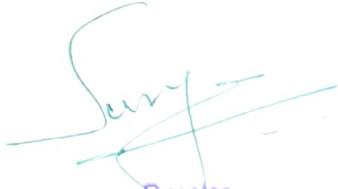
Grade	1-1.9										
Marks	0										
Grade	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	
Marks	0.5	1	2	3	4	5	6	7	8	9	
Grade	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4
Marks	10	11	12	13	14	15	16	17	18	19	20

3.4 Performance is calculated from overall grade (automatically calculated in excel file)

Between 0 to 1.9	Poor
Between 2 to 2.9	Fair
Between 3.0 to 3.9	Good
Equal to 4.0	Excellent

3.5 Reports at HOD Level

Performance	Number of Students	Remarks
Poor		
Fair		
Good		
Excellent		


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