

Guru Nanak Dev Engineering College, Ludhiana
Electrical Engineering Department
Notice
MAJOR PROJECT- FINAL YEAR

08.01.2025

Ref.No.EE/31

Students of final year (7th Semester) Electrical Engineering are required to submit project proposals duly typed (in Times New Roman Font size 12) with following guidelines latest by **16.01.2025, 8.30AM** in office of undersigned or by email to arvinddhingra@gndec.ac.in:

1. All project proposals should be of realizable hardware/software projects related to Electrical Engineering.
2. Projects based on microcontroller shall not be accepted unless accompanied by a certificate verifying the programming to be done in college laboratory only.
3. A group of four students at the most is permitted to be formed for project work.
4. The project proposal should include a brief summary of the proposed project, literature survey, basic circuit diagram, approximate cost of the project.

Students who do not submit the proposal by due date shall be grouped by the department and awarded the project by the department. Project groups/ project proposals once submitted shall not be changed.

Also the following is the likely schedule for Project Work

Submission of Proposals	16.01.2025
Guide Allocation	20.01.2025
Synopsis Presentation	30.01.2025 at 11.30AM in Drives Lab
Mid Term Review	27.02.2025
Final Project Submission	30.04.2025

Students should note that continuous Rubrics based evaluation shall be followed for project evaluation. Rubrics shall be displayed separately. All project proposals/reports are subject to plagiarism check.

Dr. ARVIND DHINGRA
 Project Coordinator

Cc: HOD(EED): for kind information please
 DNB, Notice boards for classes of final year.
 To be put up on departmental website

- KDS _____
- RJS _____
- GSS _____
- AD _____
- SKG _____
- BHW _____
- KBS _____
- AKG _____
- BWS _____

DNB (Meeting/ create)

2K2 ——— BHK
AKG ——— 2MB
KB2 ——— VDK
K2K ——— BHM
2KC ——— B2V
AD ——— BKB
Q22 ——— H2G
K72 ——— H2B
K02 ——— P12

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GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
ELECTRICAL ENGINEERING DEPARTMENT
FINAL YEAR 8TH SEMESTER
MAJOR PROJECTS ASSESSMENT SCHEDULE

Sheet 3

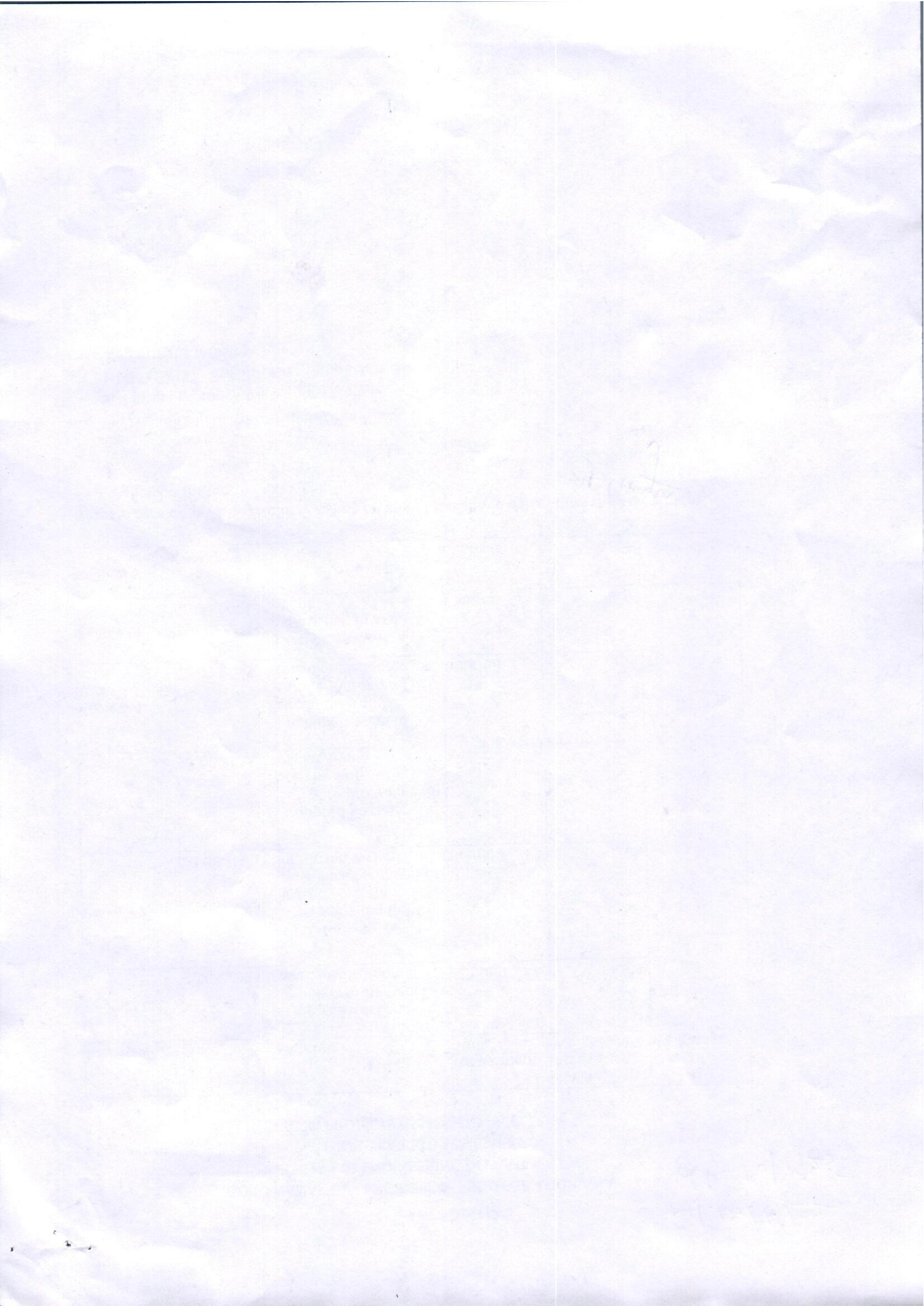
Ref. No. EE/32
dt. 10/1/25

Review #	Date	Agenda	Assessment Tool	Review Assessment Weightage	Overall Weightage
Review 1	30.01.2025	Title, Abstract and Problem Statement with justification	Rubric 1	20%	60%
Review 2	20.02.2025	Literature review, merits and demerits of existing system, possible advantages of proposed system	Rubric 2	20%	
Review 3	27.02.2025	Proposed Circuit/ Software program with step by step explanation	Rubric 3	20%	
Review 4	12.03.2025	Implementation of circuit diagram/ software program/ technique adopted	Rubric 4	20%	
Review 5	16.04.2025	Results, analysis, discussion, future scope	Rubric 5	20%	
Review 6	30.04.2025	Complete Project review	Rubric 6	100%	

Note: In case of any MST/Holiday falling on any of the above dates, then the assessment shall be shifted to next week.

Project Coordinator

Cc: DNB/Notice Board of Final Year Classes
: All project Guides for Major Project
: HOD (EED) : For information please.
: Department website

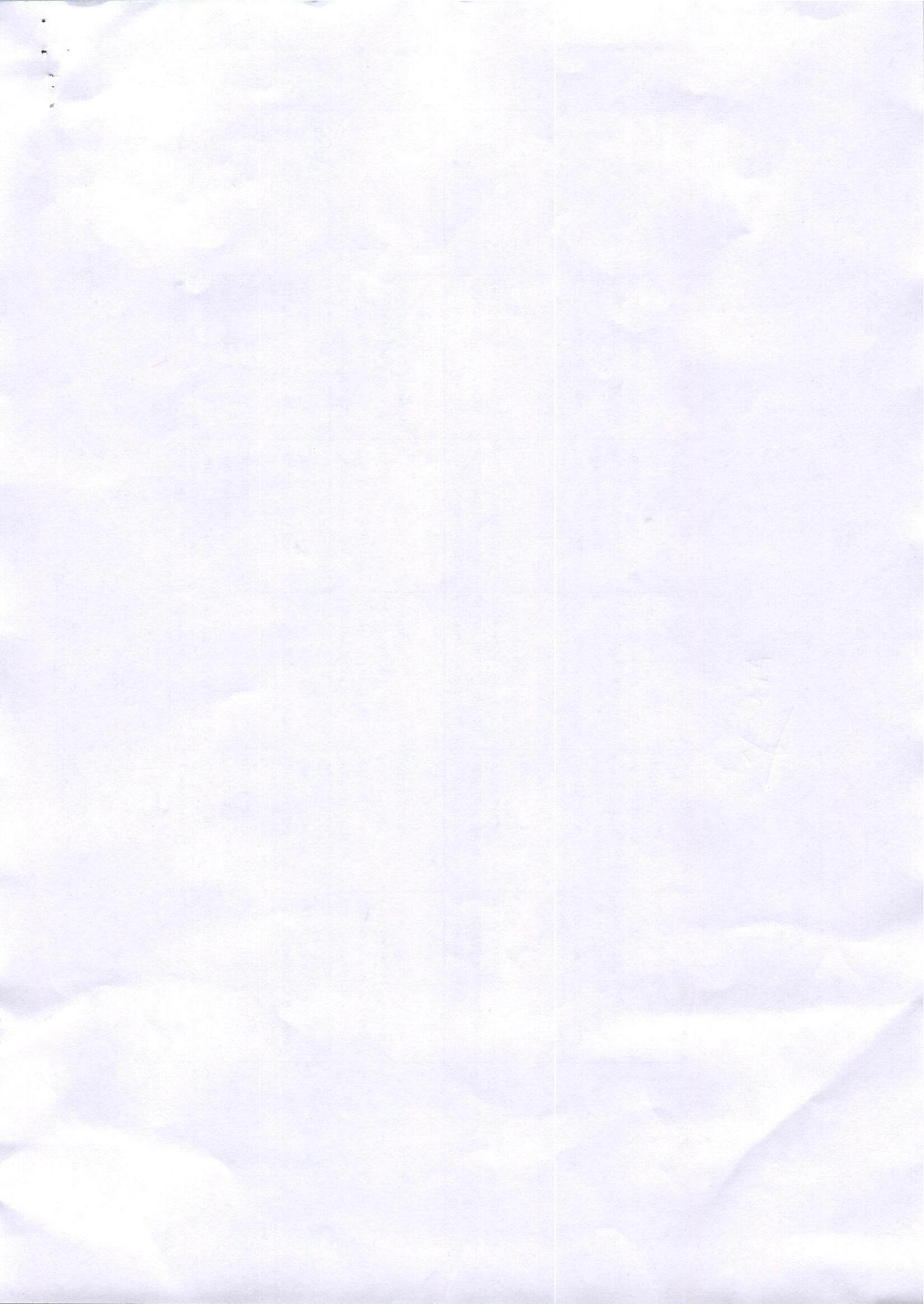


Assessment Tools: Rubrics

Rubric #1

Rubric	Excellent (5)	Good(4)	Average(3)	Acceptable(2)	Unacceptable(1)
Title	The title is clear in description	Title is clear but does not match description.	The title is somewhat clear	Title is somewhat clear without any substance.	The title is unclear
Abstract	The abstract is clear and concise	The abstract is not very clear.	The abstract is clear but not concise	The abstract is too long.	The abstract is not clear and not concise
Problem Statement	The problem is clearly defined and justification for choosing the problem is available	The problem and justification do not match.	The problem is clearly defined but justification is not available	The problem is defined to some extent without justification	The problem is not defined clearly and no justification is available
Subject Knowledge	Complete explanation of key concept with justification	Brief explanation of key concepts with some justifications.	Complete explanation of key concepts with some relevant literature and poor visuals	Explanation is just sufficient but no justification.	Explanations of concepts with literature are in accurate
Justification	Proper justification with supporting data/examples. Is able to show that problem is viable as project	Proper justification with supporting data/examples. Is notable to show that problem is viable as project	Justification without examples but has some supporting data, but can prove problem as viable project	Justification without examples or supporting data, but can prove problem as viable project	Improper justification No supporting data. Project may not be viable.

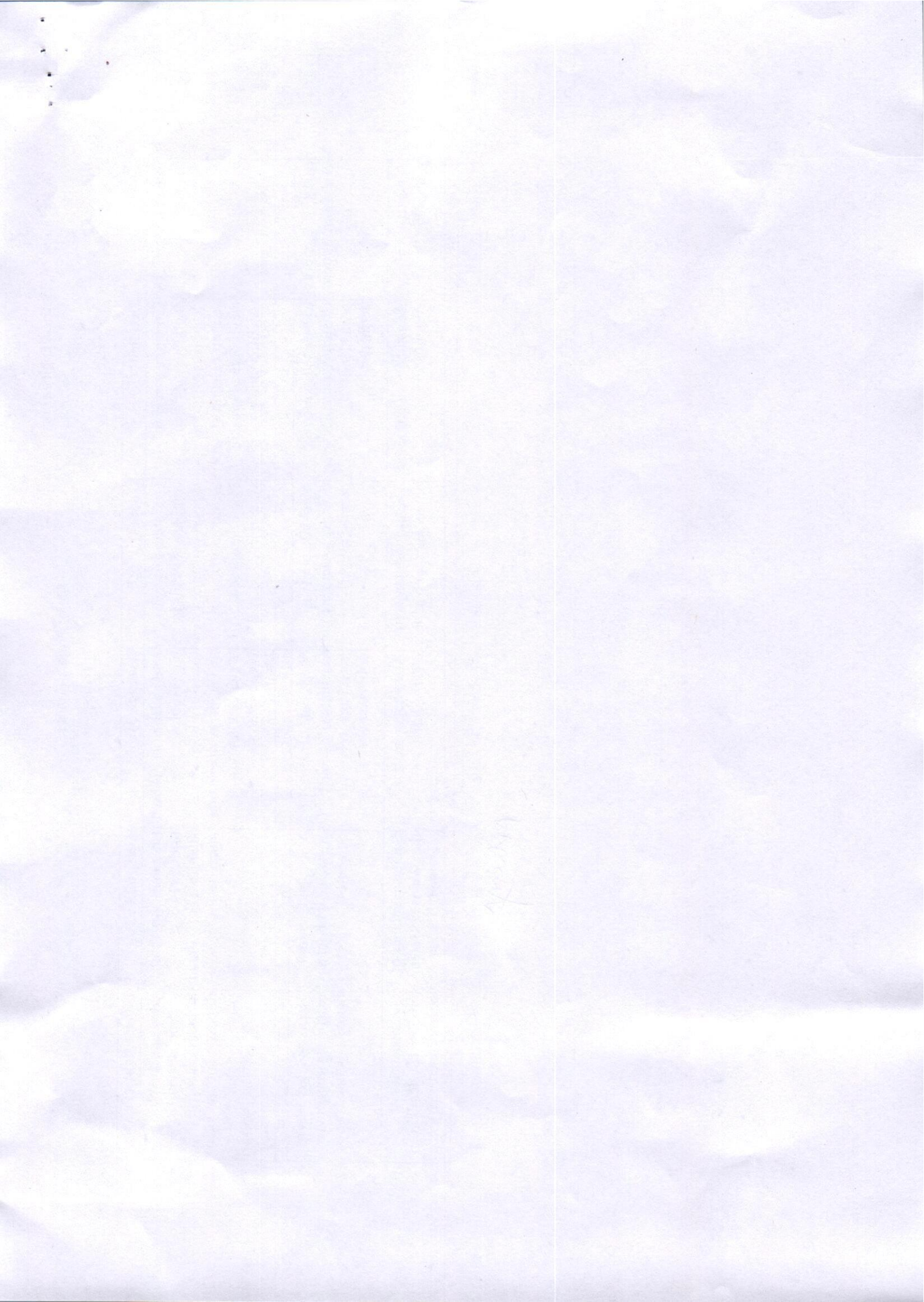
ADW



Rubric # 2

Rubric	Excellent (5)	Good(4)	Average(3)	Acceptable(2)	Unacceptable(1)
Literature Survey	Literature survey is complete; sufficient detail is provided to support existing system and proposed system identification	Literature Survey is complete; Details to support existing system are not proper, hazy idea of proposed system.	Literature survey is brief but complete; review focuses only on merits and demerits of existing system but misses proposed system identification	Literature survey is brief; project identified but without much details.	Literature survey is incomplete and includes excessive discussion of unrelated issues.
Merits & demerits of existing system	Merits and demerits of existing system have been clearly defined/stated	Merits/demerits if existing system are not defined properly.	Merits and demerits of existing system have been vaguely defined/stated	Merits and demerits are stated without any outcome.	Merits and demerits of existing system have not been defined/stated
Advantages of proposed system	Advantages of proposed system are clearly defined	The proposed system advantages are vague.	Advantages are not clearly defined	Some advantages of the proposed system are given.	No advantages of proposed system have been defined

Asking



Rubric #3

Rubric	Excellent (5)	Good(4)	Average(3)	Acceptable(2)	Unacceptable(1)
Design methodologies and elaboration of process steps	provides good and clear circuit ideal software algorithm; applies principles and algorithms correctly to problem domain	Provides a basic idea of circuit/algorithm without application of principles/ algorithms to problem domain	Basic principles and techniques relevant to project are included, but fail to develop complete theoretical or design framework for project	Some principles and techniques relevant to project are included.	Unable to identify relevant circuits/ algorithms/techniques/ methods
Explanation of circuit/ software program	The circuit to be used is clear with all ratings of the components clearly shown. The software program is supported by algorithm and basis for choosing the software language is also defined.	The circuit components are not clear. The software algorithms are also not proper.	The circuit to be used is clear but all ratings of the components are not shown clearly. The software program is supported by algorithm but the basis for choosing the software language is not defined.	Circuit components not clearly mentioned. The software justification is not given.	The circuit to be used is not clear and all ratings of the components are not shown clearly. The software program is not supported by algorithm and the basis for choosing the software language is not defined.
Choosing circuit components/ software basis	The choice for a particular component with specified rating is supported by some calculations/ The choice of software is supported by proper reasoning	The component ratings are not clear. The software choice is not based on any findings.	The choice for a particular component is clearly supported but the specified rating is supported by some calculations/ The choice of software is not supported by proper reasoning	The components are not specified at proper locations in circuit. The software is devoid of any algorithms.	The components have been chosen randomly/ Software has been chosen randomly.

Aditya

10/10/10

Rubric #4

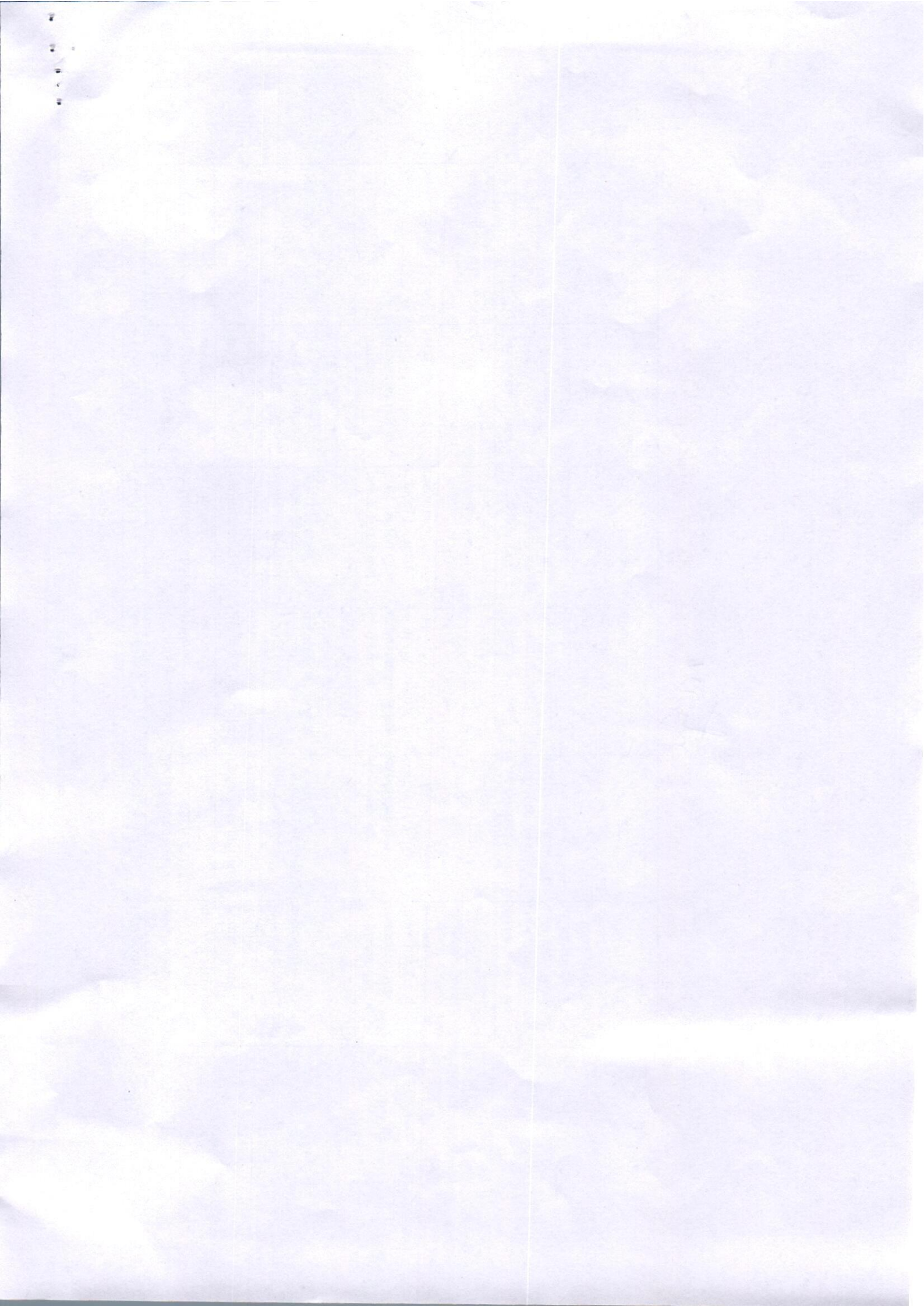
Rubric	Excellent (5)	Good(4)	Average(3)	Acceptable(2)	Unacceptable(1)
Steps for realization	Steps for realization of circuit are clearly shown and step by step testing is also explained. The steps in software program are clearly shown and debugging	Vague steps for realization of circuit. Only a brief idea of circuit testing/debugging.	Steps for realization of circuit are clearly shown but step by step testing is not explained. The steps in software program are clearly shown but debugging has not been	Steps for realization are not in any order. The program details are also not clearly specified.	Steps for realization of circuit are not clearly shown and step by step testing is not explained. The steps in software program are not clearly shown and debugging
Modern tools utilization	Usage of modern tools like software for designing of circuit and computing resources correctly and effectively.	Prevalent tools/software are being used.	uses modern tools viz. softwares and computing resources to some extent.	The use of modern tools is not clearly specified.	Unable to select proper tools for design and implementation
Identification of components (Circuit based projects) or Adoption of coding(software based projects	The components to be used are clearly identified with relevant specifications; coding is done using appropriate selection of programming language and is explained	Some components are specified/some specifications of software are defined.	The components are selected properly but explanation for selection of particular component is missing; Coding is done with appropriate selection of programming language but unable to explain the code	Components and software selected are without justification	Failed to identify the components or use the programming code

Asking

Rubric #5

Rubric	Excellent (5)	Good(4)	Average(3)	Acceptable(2)	Unacceptable(1)
Results & Analysis	Results are clearly explained and analyzed.	Results are almost explained.	Results are clearly explained but not analyzed.	Results and analysis presented but do not match.	Results are not clearly explained and not analyzed.
Future Scope	Future scope is clearly defined	Future scope is vaguely defined	Future scope is not clear	Future scope is too brief.	Future scope is not defined.
Delivery	Clear Voice, good spoken language and confident delivery	Somewhat clear voice, jittery delivery.	Low Voice, acceptable spoken language and general delivery	Low voice, stuttering delivery.	Inaudible voice and poor delivery
Subject Knowledge	Complete explanation of key concept with justification	Somewhat clear explanation of key concept with justification	Complete explanation of key concepts with some relevant literature and poor visuals	Key concept explained but without relation to justification given.	Explanations of concepts with literature are in accurate
Relating to audience	Eye contact over entire room appropriate responses to questions	Eye contact is almost appropriate some questions unanswered.	Eye contact with limited group within audience. Generally appropriate responses to questions	Eye contact with audience. Some questions answered.	Makes some eye contact with audience. Responds to questions inadequately.

Asking



Rubric #6

Major Project Rubrics

Rubric	Excellent (5)	Good(4)	Average(3)	Acceptable(2)	Unacceptable(1)
Content and style	Information required is in logical sequence with diagrams, tables etc., complete and formatted.	Information required is in logical sequence but not formatted.	Information is in logical sequence without diagrams, table etc., complete and formatted	Information is not in logical sequence but some diagrams are given.	Mostly unclear and not formatted
Language (grammar and word choice)	sentences are complete and grammatical. Words choice is good.	Sentences and grammar is good at most places.	Sentences and grammar are just as per requirement.	In a few places errors in sentence structure and grammar. Word choice could be improved	Errors in sentence structure and grammar. There is a repetition of same words and phrases.
Report Format	The format given has been followed completely	Format followed at most places.	The format given has been followed to a large extent	Format followed but font size/style different then specified.	The format given has not been followed completely
Presentation	The presentation is clear and concise highlights all points of the project.	The presentation is clear to a large extent.	The presentation is clear but not concise. Does not highlight all points of project	The presentation is clear to some extent some points are highlighted.	The presentation is not clear and concise , does not highlight the necessary points of project.

Ashwin

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