Phase- I
Section-1

1. Guidelines for Phase-1 (Semester 7)

Teaching hours: 3 Hrs/week Examination: I.A. Marks 100

General Guidelines

1. Project coordinator shall be appointed by the Head of the Department.
2. Faculty submit the project titles along with brief abstracts.
3. Students will form teams (Maximum Four per Project Batch) and submit project titles. The team shall heterogeneous as far as possible in terms of academic performance and gender.

   ***Time frame**: Two weeks from commencement of the semester*
4. The project coordinator shall assign guide / guides to the project depending on the expertise of the guide.
5. Project proposals can be submitted to industry / organizations for financial / technical support.
6. Head of the Department shall form Project Committee comprising of minimum three faculty along with the guide, for phase-wise evaluation of final year projects. Faculty as examiners shall be from domain of the project.
7. There will be two phases for final year project: (i) Phase-I in semester VII and (ii) Phase-II in semester VIII.
8. During each phase, marks will be allotted (70% by the Project Guide and 30% by the Committee) as per the rubrics.
9. Students have to present the project proposal to the committee in presence of their guide and marks are awarded for **Problem Identification, Objectives & Scope** in **Phase-I, Review-1.**

   ***Time frame**: Before Second Internal Assessment Test of VII semester*
10. Project guide will continuously monitor the progress of the project. A record of weekly progress shall be maintained in the format given in section 10.
11. Students have to submit synopsis and present seminar of the project to the committee in presence of their guide and marks are awarded for **Literature survey, Methodology, Synopsis and Seminar** in **Phase-I, Review-2**.

    ***Time frame**: Before Third Internal Assessment Test of VII semester*.

(For Coordinator reference, not for circulation)

Phase- I
Section-2

2. Final Year Project Time Schedule

Table 2.1 Final Year Project Time Schedule

Sr. No.	Process	Tentative Date
1	Display of project titles from guides	
2	Guidelines for Phase-I	
3	Group formation and project selection	
4	Project allocation	
5	Schedule for Phase-1, Review-1	
6	Schedule for Phase-1, Review-2	
7	Schedule for Phase-2, Review-1	
8	Schedule for Phase-2, Review-2	
9	Project Exhibition	

Project coordinator H.O.D.

Date:

(For coordinator reference)

Phase- I
Section-3

3. Display of project titles by guides

1. Guides are required to conduct survey on their fields of interest and area of research to select the problem definitions for project work.
2. Problem definitions for project work shall address the academic, industrial and societal needs.
3. **Minimum two project titles** (with brief abstracts) shall be prepared by each guide, **with a mention of Relevant field and Type** of project. Project coordinator shall collect the hard copies of the abstracts to prepare the *compendium* and make it available for the project teams to explore.
4. Project works carried out in the previous academic years in which value addition (modification in hardware, software, comparison or product formation) is possible, shall be given priority in selection of titles.
5. Guides can take initiation in approaching industries to select project titles.
6. Last date for submission of project titles with abstracts:……..

Project Coordinator H.O.D.

Date:

(For faculty circulation)

Phase- I
Section-4

4. Team formation and Project selection

1. Students are informed to form project groups for their final year major project.
2. A team shall have a maximum of four students.
3. Students in a team shall be from the same division.
4. The team shall heterogeneous as far as possible in terms of academic performance and gender.
5. The teams have to select **three** titles of projects from the list provided by the department as in Table 4.2 and submit to the project coordinator in the format given in Table 4.1 along with names of students in the team.
6. Last date for submission:….

Project Coordinator H.O.D.

Date:

(For student notice board)

Table 4.1 Selection of team members and project work titles

Name	USN	Project title
		1.
		2.
		3.
		Any other

Table 4.2 Project titles suggested by the guides

Sr. No.	Title	Domain	Relevance	Type
1				
2				
.				
.				

(For student notice board)

Phase- I
Section-5

5. Project Allocation

Allocation of projects to guides is based on the following -

1. Project committee of the Department shall identify the different domains of the department (refer to Table 4.2) and the faculty expertise in these domains.
2. Project titles requested by teams shall be allotted as first preference.
3. Project titles proposed and requested from students (other than the list provided by department) shall be allotted to guides based on their domain expertise.
4. List of project teams as in Table 4.1, should be displayed on the notice board as well as circulated to guides. Any discrepancies need to be sorted out within two days of the display of the list.
5. Faculty as examiners shall be from the domain of the project.

(For Coordinator reference)

Table 5.1: List of project teams with guides allotted and project titles

Divison A					
Team No.	**Name**	**USN**	**Title, Relevance and Type**	**Guide**	**Examiners**
A1					
A2					
		Divison B			
B1					
B2					

Students have to present the project proposal to the committee in presence of their guide and marks are awarded for **Problem Identification, Objectives & Scope** with related literature survey in **Phase-I, Review-1**. In this regard, students have to finalize the titles and objectives in communication with guides.

Project Coordinator H.O.D.
Date:

(For student notice board and Faculty circulation)

Table 5.2 Domains of the department

Sr. No.	Department	Domains
1	CSE/ISE	(i) Web/Network/Android Application (ii) Image Processing (iii) Data Analytics (iv) AI & Machine Learning
2	ECE	(i) Embedded systems (ii) Communication and Signal processing (iii) VLSI
3	EEE	(i) Power and Energy systems (ii) Power electronics (iii) Microcontroller and control systems
4	Mechanical Engg.	(i) Renewable Energy Systems (ii) Material Science and Manufacturing (iii) Product Design and Development
5	Civil Engg.	(i) Structural Engineering (ii) Geotechnical Engineering (iii) Water Resources Engineering (iv) Environmental Engineering (v) Transportation Engineering (vi) Construction Management & Technology (vii) Remote Sensing and GIS (viii) Ocean/Coastal Engineering

(For student notice board and Faculty circulation)

Phase- I
Section-6

6. Work space allotment to project teams

Work space for final year major projects is allotted as per availability of labs with reference to department time table. Work space is allotted based on hardware, software or any other category of project works for successful completion of the project work.

- Students are required to enter the laboratory logbook available with technical faculty in the respective labs.

Table 6.1: Work space allotment to project teams

Name of Lab1	Name of Lab2	Name of Lab3	Name of Lab4	Name of Lab5
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x

x-Team No.

Table 6.2 Free lab time availability in the department

	Mon	Tue	Wed	Thu	Fri	Sat
Name of Lab1	Time	Time	Time	Time	Time	Time
Name of Lab2	Time	Time	Time	Time	Time	Time
Name of Lab3	Time	Time	Time	Time	Time	Time
Name of Lab4	Time	Time	Time	Time	Time	Time
Name of Lab5	Time	Time	Time	Time	Time	Time

Project Coordinator H.O.D.
Date:

(For student notice board, respective lab notice boards)

Phase- I,
Section-7

7. Rubrics for Phase-I: Review-1 and Review-2

Distribution of marks: Problem Identification-10, Objectives & scope-10, Literature Survey-20, Methodology-20, Submission of synopsis-20 and Seminar-20, Total 100 Marks

Table 6.1 Rubrics for Phase-1 **(Guide copy)**

Components	PO coverage	Sophisticated	Competent	Not yet complete
Review-1 (Time frame: Before Second Internal Assessment Test of VII semester)				
(a) Identify the need, **problem definition, objectives and scope (10 + 10=20 Marks)**	1,2,6,7	Problem and scope are well defined. Objectives are correctly stated (10+10)	Sound understanding of problem. Objectives are clearly framed. Scope not well defined. (8+8)	Aware about problem but objectives and scope not well defined (7+7)
Guide-70%		14(Max)	11(Max)	10(Max)
Committee-30%		6(Max)	5(Max)	4(Max)
Review-2 (Time frame: Before Second Internal Assessment Test of VII semester)				
(b) Literature survey, Methodology (20+20=40 Marks)	3, 11	Literature review or field survey done. Development of alternate solutions and selection of design considering various factors. (20+20)	Literature review has been done. Design or development of solutions are based on arbitrary criteria. (18+18)	Not reviewed any relevant material/Reviewed insufficient material. Design approach not appropriate. (16+14)
Guide-70%		28 (Max)	26(Max)	21(Max)
Committee-30%		12(Max)	10(Max)	9(Max)
(c) Seminar (Individual) (20 Marks)	9, 10	Excellent understanding and effectively presented-(20)	Sufficient understanding and fairly presented-(18)	Too brief and insufficient for adequate understanding-(15)
Guide-70% Committee-30%		14(Max) 6(Max)	13(Max) 5(Max)	11(Max) 4(Max)
Student's Name and USN				
Student's Name and USN				
Student's Name and USN				
Student's Name and USN				
(d) Synopsis 20	8, 10, 12	Format followed, References in IEEE standard, Block diagram given, objectives & scope written, methodology & platform identified, submitted within deadline (20)	Not in proper format, References not in IEEE standard, Block diagram objectives, scope, methodology not clearly stated (17)	Not in proper format, References not in IEEE standard, Block diagram objectives, scope, methodology poorly stated (15)
Guide-70%		14 (Max)	12(Max)	11(Max)
Committee-30%		6(Max)	5(Max)	4(Max)

Title of Project Work:

Review 1: Signature of Guide	Examiner 1	Examiner 2
Review 2: Signature of Guide	Examiner 1	Examiner 2

(Guide copy not to be shared with students)

Phase- I
Section-8

8. General Guidelines to students for Phase-1: Review-1 and Review-2

Instructions that help students to form title, problem definition, objectives, scope, and to write methodology, relevance and type are presented-

(i) **Record of References, Work carried out and Attendance:** Printed copies of references (PO8) and a book containing record of work carried out on regular basis need to be maintained (PO10). Attendance of students for weekly meet with guide to be recorded in the same book.

(ii) Hard copy of a minimum of three reference papers to be submitted to the guide and to be produced for every evaluation.

(iii) **Problem definition, objectives and scope** (PO4, PO5, PO6, PO7, PO12):

Students can refer to projects database provided by the department. This contains a list of project titles with brief abstracts suggested by guides. These are only suggestions of suitable topics and students are encouraged to formulate their own ideas for a project.

Problem definition: Statement of how one would like to take up the work to add value to the work or what changes would be done either in use of different design, algorithm, platform, hardware, parameters or use of different test scenarios.

Objectives: Objectives relate to the expected outcomes of the project. The objectives should be clearly specified and should be chosen with time and resource limitations. Objectives should be stated with Roman numbering (as i, ii, iii).

Scope: In the scope, the extent to which the work of the project applies need to be explained along with clear **limitations** of time, geography, environment, availability of resources that extend or restrict the work. This provides a common understanding of the project among stakeholders (students, guide, evaluators). Stating the scope makes the project work achievable and realistic by defining the limits and constrains.

(iv) **Title of the project:** Title should be carefully selected to depict the objectives. Two to three versions of title should be thought of and suggestion by project committee in Review-1 to be taken in to consideration in finalising the title. Too lengthy and ambiguous titles should be avoided. Similarly, too cryptic titles also should not be used.

If the title is changed, it should be informed to the project coordinator. The title can be changed only with the permission of the guide and project committee of the domain.

(v) Literature survey (PO12): An exhaustive Literature Survey is essential part of a project work. Literature from text books, Journals, Conference papers, Monograms, Handbooks, I.S. codes and other sources need to be collected. Discussion from industry and academia experts, field surveys is to be noted and documented in a systematic way. Literature survey need to be written as a reference for the project work to mention how the work related is carried out by other researchers and what parameters are tested.

(vi) Methodology (PO1, PO2, PO3): This consists of a breakdown of the work to be done into phases, tasks and other activities with estimates of time to complete the work. It will specify interdependencies of tasks, critical work elements and schedule. Description of the work you have done so far with a flow chart is expected. The work intended to be done in Phase-2 should also be indicated.

(vii) Use of modern tools (PO5): Modern tools are available for simulation and verification as licenced and free version. Use of modern tools along with mention of the details in the methodology is expected.

(viii) Relevant field, Type, PO and PSO of the projects

Based on the **relevant field**, project works are to be identified with, four categories such as; **(i) General (ii) Agriculture(iii) Renewable (iv) Health (v) Infrastructure.**

Further they are also to be divided into four **types** as;

(i) Application (ii) Product (iii) Research (iv) Review project.

Project works are also identified with, POs and PSOs.

(ix) Resources required: Availability of the existing resources necessary for project work need to be verified. Any requirement not available in the department should be discussed with guide and H.O.D. and proposals for procuring the same may be made.

(x) Industry support: Project proposals may be submitted to industry / organizations for financial / technical support wherever possible.

(xi) Bibliography is written with the formats as mentioned below-

1. Book - General Format

[#] Author name, *Book Title*, Edition, Place of Publication, Publisher, Year.

Example

[2] A.V. Oppenheim and R.W. Schafer, *Digital Signal Processing*, 3rd Edition, Prentice Hall, 1975.

For e-Book, give the web source where the book is available.

2. Magazine or Journal Article - General Format

[#] Author name, "Title of article", *Title of Journal*, Volume, Number, Page Numbers, Month Year.

Example

[2] R. Abell, S. Morgan, and A. Morgan, "Taking high conservation value from forests to freshwaters", *Environmental Management*, Vol. 56, No. 1, 2015, pp. 1-10.

3. Conference Papers - General Format

[#] Author name, "Title of paper" *Conference name*, City of Conference, year, pages.
Omit the year if it is included in the conference name.

Example

[4] A. Alshammari, S. Alhaidari, A. Alharbi, and M. Zohdy, "Security threats and challenges in cloud computing", in *2017 IEEE 4th Int. Conf. on Cyber Security and Cloud Computing,* New York, pp. 46-51.

4. Standard or Code - General Format

[#] *Title*, Standards organization, Standard number, date.
Omit the date if it is included in the standard number.

Example

[8] *Boiler and Pressure Vessel Code, Section I - Rules for Construction of Power Boilers*, ASME BPVC PT.1, 2015

5. Website - General Format

[#] Author name, "Title of article", *Website Name*, Publication Date. Available: internet address. [Accessed: Month Day, Year].

Example

[8] K. Bonsor and J. Strickland, "How nanotehnology works," *HowStuffWorks*, 2007. [Online]. Available: https://science.howstuffworks.com/nanotechnology1.htm. [Accessed: December 1, 2017].

Project Coordinator H.O.D.
Date:

(copy protected pdf to be shared with students using college website)

Phase- I
Section-9

9. Format for Synopsis

Synopsis (PO9, PO10) should contain the following-

(i) Cover page (as per format provided by the department).

(ii) Content page (as per format provided by the department).

(iii) Chapter 1 Introduction

(iv) Chapter 2 Methodology

(v) Bibliography

Chapter 1 to be organized as mentioned below-

- 1.1 to 1.5 Introduction (number of sections depend on the content)
- 1.6 (Next section, can be 1.5 also) Literature Survey
- 1.7 Motivation and Problem Definition
- 1.8 Objectives
- 1.9 Scope and limitations
- 1.10 Relevance and Type

Chapter 2 to be organized as mentioned below-

- Methodology*
- Resources required (Hardware and software, materials, labour, equipments, tools etc.)
- Applications (mention the areas where the project finds application.
- Budget (finance required for completing the project work including the report).

*Students can make use of Microsoft-Visio to draw block diagrams.

Project Coordinator H.O.D.

Date:

(For student notice board and Faculty circulation)

Phase- I
Section-10

10. Guidelines for Project Seminar in Phase-1

Preparation of slides should follow the guidelines as mentioned below-

1. The first slide should contain institute name (with Society logo and institute logo), Department name, Title of the project, Student names with USN (University Seat Number), Name of guide/guides, Date of Evaluation.
2. Second slide should give Content of the presentation.
3. Third slide will show Problem definition, Objective and scope.
4. Slide four starts onwards shall give Literature survey carried out.
5. Slides should be numbered.
6. Slides should not be prepared with special effects.
7. Slides should be simple with proper background and with simple design anf legible font.
8. In each slide there should be 8-10 lines, with font 24-28.
9. Mathematical equations should be written using equation editor.
10. Tables and figures should be given caption and number.
11. If any block diagram, figure, concept, table is copied from a reference, it should be duly acknowledged and mentioned (PO8).
12. The last slide should be Bibliography.
13. Slides should be got verified by the guide, before presenting them during evaluation.
14. Dress code: In all the stages of project reviews, students are instructed to present themselves decently with proper dress code (Boys will be in complete formals, Girls will be in cotton dress (Salwar Kameez)). Examiners may cancel the Review process if dress code is not followed by a particular student.
15. Evaluation of project seminar is done for 20 marks.
16. All the students of a project team need to know all the slides as they may be asked to explain the slides in randomly.

Project Coordinator H.O.D.
Date:

(For student notice board)

Phase- I
Section-11

11. Weekly record of work

Meetings with guide at least once in a week is compulsory with team members. Record of the progress made, briefs of the discussion on next work, signature of students present and guide signature, needs to be maintained in the format shown in Table 10.1, in a register maintained with project guides.

Table 10.1 Weekly report

Progress made					
Discussion on next work					
Signature of students present	*Student name				
	Signature				
Signature of guide with date					

* Follow the same order of names in columns in all reports.

Project Coordinator H.O.D.

Date:

(For student notice board)

Phase- I
Section-12

12. Schedule and Rubrics for Phase-1, Review-1

Rubrics for Project Review-1 are given in Table 12.1. Schedule of evaluation is given in Table 12.2. Students are informed to note the same and prepare accordingly.

Table 12.1 Rubrics Phase-1, Review-1

Rubrics	Problem Definition	Objectives and Scope	Total
Marks	10	10	20

Table 12.2 Schedule for Phase-1, Review-1

	Division:		
Team No.	Date and Time	Guide and Examiners (Initials)	Group No.

Project Coordinator H.O.D.
Date:

(For student notice board and for Faculty circulation)

Phase-I
Section-13

13. Schedule and Rubrics for Phase-1, Review-2

Rubrics for Project Review-1 are given in Table 13.1. Schedule of evaluation is given in Table 13.2. Students are informed to note the same and prepare accordingly.

Table 13.1 Rubrics Phase-1, Review-2

Rubrics	Literature survey	Methodology	Synopsis	Seminar (Individual)	Total
Marks	20	20	20	20	80

Table 13.2 Schedule for Phase-1, Review-2

	Div A		
Team No.	Date and Time	Guide and Examiners (Initials)	Group No.

Project Coordinator H.O.D.
Date:

(For student notice board and for Faculty circulation)

Phase-I
Section-14

14. Record of Final Internal Marks for Project work 15XYP85

	Divison:					
Team No.	**Name**	**USN**	**Marks**	**Title, Relevance and Type**	**Guide**	**Examiners**
A1						
A2						
Divison:						
B1						
B2						

Note: Project coordinator shall collect the evaluation sheets as in section 7(Phase-I) from guides and prepare the consolidated copy of project internal marks.

Project Coordinator H.O.D.

Date:

(For department use)

K.L.E. Society's
K. L. E. INSTITUTE OF TECHNOLOGY, HUBBALLI-27
(Approved by AICTE, Affiliated to VTU, Belagavi & ISO 21001:2018 Certified)
(All UG Programmes are NBA Accredited)
Opposite Airport, Gokul, Hubli-580 027. Dist.: Dharwad, Karnataka, India.
Phone: 0836-2232 664, 681 Fax: 0836-2330688.email: principal@kleit.ac.in website:www.kleit.ac.in

Phase-II
Section-1

1. Rubrics for Phase-2 (Guide-copy)-CSE/ISE

Components	Sophisticated	Competent	Incomplete
Review-1			
(a) Software & Hardware Requirements, Algorithm Design & Analysis, installation, Software Tools, Testing (10 Marks)	Software Requirement Specification is carried out, Algorithms selected,	Software Requirement Specification is carried out, Poor design of *modules*	Software Requirement Specification is carried out, Poor design of *modules, Improper selection of algorithms*
Guide-100%	10 (Max)…….....	8 (Max)…….	6 (Max)……..
(b) Explanation (Individual) (10 Marks) Guide-100%	Effectively presented 10(Max)…….....	Fairly presented 8(Max)…….....	Needs improvement 7(Max)…….....
1			
2			
3			
4			
(c) Work carried out and progress in percentage (20 Marks)	Modules implemented and tested, Analysis verified., (graphs tables)	Module programs *implemented, Analysis not satisfactory*	Both module programs *and Analysis not satisfactory*
Guide-70%	14(Max)…….....	12(Max)…….	8(Max)……..
Committee-30%	6(Max)…….	4(Max)……	4(Max)……
Review-2			
(d) Demonstration of working module (20 Marks)	Working as per objectives	Working partially as per objectives	Working, objectives not met
Guide	14(Max)…….....	12(Max)…….	8(Max)……..
Committee	6(Max)…….	4(Max)……	4(Max)……
(e) Presentation and viva (Individual) (10 Marks) Guide-100%	Effectively presented and answered viva 10(Max)…….....	Fairly presented and answered viva. 8(Max)…….....	Poor presentation and not answered viva 7(Max)…….....
1			
2			
3			
4			
(f) Draft report submission within deadline and final report (25 Marks)	Submitted within deadline, Format followed, References in IEEE standard, technical details properly written, results discussed with graphs, tables and figures, flow diagram given	Submitted within deadline, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures given*	*Not submitted within deadline*, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures not given*
Guide-100%	25 (Max)…….....	22(Max)…….	17(Max)……..
(g) Publication / Exhibition (5 Marks)	Publication done, participated in exhibition	*Publication not done*, participated in exhibition	*Publication not done, not participated in exhibition*
Guide-100%	5 (Max)…….....	3(Max)…….	0 (Max)……..
(Student's Name	**USN**	**Total Marks Phase II: (a)+(b)+(c)+(d) (e)+(f)+(g)**	
1			
2			
3			
4			

Title of Project Work:

Review 1: Signature of Guide	Examiner 1	Examiner 2
Review 2: Signature of Guide	Examiner 1	Examiner 2

K.L.E. Society's
K. L. E. INSTITUTE OF TECHNOLOGY, HUBBALLI-27
(Approved by AICTE, Affiliated to VTU, Belagavi & ISO 21001:2018 Certified)
(All UG Programmes are NBA Accredited)
Opposite Airport, Gokul, Hubli-580 027. Dist.: Dharwad, Karnataka, India.
Phone: 0836-2232 664, 681 Fax: 0836-2330688.email: principal@kleit.ac.in website:www.kleit.ac.in

Phase-II
Section-1

1. Rubrics for Phase-2 (Guide-copy)-Civil Engg.

Components	Sophisticated	Competent	Not yet complete
Review-1			
(a) Design solution proposed/ Experiments conducted/ Software installation and learning and demo examples, cost comparison (10 Marks)	Design solution approved/ Successful sample results from experiments conducted/ Working model built in the software, cost comparison done	Design solution satisfactory with minor changes/ Acceptable sample results from experiments conducted/ Model built in the software with some errors, partial cost comparison done	Design solution needs to be revised/ unsuccessful results or experiments not yet conducted/ no working model built in the software, cost comparison not done
Guide-100%	10 (Max)…….....	8 (Max)…….	6 (Max)……..
(b) Explanation (Individual) (10 Marks) Guide-100%	Effectively presented 10(Max)…….....	Fairly presented 8(Max)…….....	Insufficient 7(Max)…….....
1			
2			
3			
4			
(c) Work carried out and progress in percentage (20 Marks)	75% and above percentage of the objectives are achieved and verified	50% -75% of the objectives are achieved and verified	50% and below percentage of the objectives are achieved/ not verified
Guide-70%	14(Max)…….....	12(Max)…….	8(Max)……..
Committee-30%	6(Max)…….	4(Max)……	4(Max)……
Review-2			
(d) Demonstration of working module (20 Marks)	Working as per objectives	Working partially as per objectives	Working, objectives not met
Guide	14(Max)…….....	12(Max)…….	8(Max)……..
Committee	6(Max)…….	4(Max)……	4(Max)……
(e) **Presentation and viva (Individual) (10 Marks)** Guide-100%	Effectively presented and answered viva 10(Max)…….....	Fairly presented and answered viva. 8(Max)…….....	Poor presentation and not answered viva 7(Max)…….....
1			
2			
3			
4			
(f) Draft report submission within deadline and final report (25 Marks)	Submitted within deadline, Format followed, References in IEEE standard, technical details properly written, results discussed with graphs, tables and figures	Submitted within deadline, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures*	*Not submitted within deadline*, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures*
Guide-100%	25 (Max)…….....	22(Max)…….	17(Max)……..
(g) Publication / Exhibition (5 Marks)	Publication done, participated in exhibition	*Publication not done*, participated in exhibition	*Publication not done, not participated in exhibition*
Guide-100%	5 (Max)…….....	3(Max)…….	0 (Max)……..
Student's Name	**USN**	**Total Marks Phase II: (a)+(b)+(c)+(d) (e)+(f)+(g)**	
1			
2			
3			
4			

Title of Project Work:

Review 1: Signature of Guide	Examiner 1	Examiner 2
Review 2: Signature of Guide	Examiner 1	Examiner 2

K.L.E. Society's
K. L. E. INSTITUTE OF TECHNOLOGY, HUBBALLI-27
(Approved by AICTE, Affiliated to VTU, Belagavi & ISO 21001:2018 Certified)
(All UG Programmes are NBA Accredited)
Opposite Airport, Gokul, Hubli-580 027. Dist.: Dharwad, Karnataka, India.
Phone: 0836-2232 664, 681 Fax: 0836-2330688.email: principal@kleit.ac.in website:www.kleit.ac.in

Phase-II
Section-1

1. Rubrics for Phase-2 (Guide-copy)-ECE

Components	Sophisticated	Competent	Not yet complete
Review-1			
(a) Software installation, software learning and demo examples, Hardware procurement, cost comparison (10 Marks)	Software installed, learnt and demo examples shown. Hardware components procured, cost comparison done	Software installed, learnt but *demo examples not shown. Hardware components not procured*	*Software not installed, demo examples not shown. Hardware components not procured*
Guide-100%	10(Max)…….....	8(Max)…….	6(Max)……..
(b) Explanation (Individual) (10 Marks) Guide-100%	Effectively presented 10(Max)…….....	Fairly presented 8(Max)…….....	Insufficient 7(Max)…….....
1			
2			
3			
4			
(c) Work carried out and progress in percentage (20 Marks)	Sensors and modules tested in lab, characteristics verified (graphs tables), programs implemented on software	Sensors and modules tested in lab, *graphs tables not obtained*, programs understood in algorithm, *not implemented on software*	*Sensors and modules not tested in lab, graphs tables not obtained*, programs understood in algorithm, *not implemented on software*
Guide-70%	14(Max)…….....	12(Max)…….	8(Max)……..
Committee-30%	6(Max)…….	4(Max)……	4(Max)……
Review-2			
(d) Demonstration of working module (20 Marks)	Working as per objectives	Working partially as per objectives	Working, objectives not met
Guide	14(Max)…….....	12(Max)…….	8(Max)……..
Committee	6(Max)…….	4(Max)……	4(Max)……
(e) Presentation and viva (Individual) (10 Marks) Guide-100%	Effectively presented and answered viva 10(Max)…….....	Fairly presented and answered viva. 8(Max)…….....	Poor presentation and not answered viva 7(Max)…….....
1			
2			
3			
4			
(f) Draft report submission within deadline and final report (25 Marks)	Submitted within deadline, Format followed, References in IEEE standard, technical details properly written, results discussed with graphs, tables and figures, integrated circuit diagram given	Submitted within deadline, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures*	*Not submitted within deadline*, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures*
Guide-100%	25(Max)…….....	22(Max)…….	17(Max)……..
(g) Publication / Exhibition (5 Marks)	Publication done, participated in exhibition	*Publication not done*, participated in exhibition	*Publication not done, not participated in exhibition*
Guide-100%	5(Max)…….....	3(Max)…….	0 (Max)……..
Student's Name	**USN**	**Total Marks Phase II: (a)+(b)+(c)+(d) (e)+(f)+(g)**	
1			
2			
3			
4			

Title of Project Work:

Review 1: Signature of Guide	Examiner 1	Examiner 2
Review 2: Signature of Guide	Examiner 1	Examiner 2

K.L.E. Society's
K. L. E. INSTITUTE OF TECHNOLOGY, HUBBALLI-27
(Approved by AICTE, Affiliated to VTU, Belagavi & ISO 21001:2018 Certified)
(All UG Programmes are NBA Accredited)
Opposite Airport, Gokul, Hubli-580 027. Dist.: Dharwad, Karnataka, India.
Phone: 0836-2232 664, 681 Fax: 0836-2330688.email: principal@kleit.ac.in website:www.kleit.ac.in

Phase-II
Section-1

1. Rubrics for Phase-2 (Guide-copy)-EEE

Components	Sophisticated	Competent	Not yet complete
Review-1			
(a) Hardware procurement, cost comparison, programming part **(10 Marks)**	Hardware components procured, cost comparison done. Programming part is complete (If applicable).	*Hardware components procured. Software part is not complete.*	*Hardware components not procured and soft ware part is not complete.*
Guide-100%	10 (Max)…….....	8 (Max)…….	6 (Max)……..
(b) Explanation (Individual) (10 Marks) Guide-100%	Effectively presented 10(Max)…….....	Fairly presented 8(Max)…….....	Insufficient 7(Max)…….....
1			
2			
3			
4			
(c) Work carried out and progress in percentage (20 Marks)	Hard ware is implemented. Results needs to be checked. Programming part is complete; execution is done (If applicable). (graphs tables), programs implemented on software	Hardware part is implemented. Not getting expected result. Needs modification in the design Programming part is partly done. (If applicable)..	*Hardware part is partly remaining. Programming is done partially.*
Guide-70%	14(Max)…….....	12(Max)…….	8(Max)……..
Committee-30%	6(Max)…….	4(Max)……..	4(Max)……
Review-2			
(d) Demonstration of working module (20 Marks)	Working as per objectives	Working partially as per objectives	Working, objectives not met
Guide	14(Max)…….....	12(Max)…….	8(Max)……..
Committee	6(Max)…….	4(Max)……	4(Max)……
(e) Presentation and viva (Individual) (10 Marks) Guide-100%	Effectively presented and answered viva 10(Max)…….....	Fairly presented and answered viva. 8(Max)…….....	Poor presentation and not answered viva 7(Max)…….....
1			
2			
3			
4			
(f) Draft report submission within deadline and final report (25 Marks)	Submitted within deadline, Format followed, References in IEEE standard, technical details properly written, results discussed with graphs, tables and figures, integrated circuit diagram given.	Submitted within deadline, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures.*	*Not submitted within deadline*, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures.*
Guide-100%	25 (Max)…….....	22(Max)…….	17(Max)……..
(g) Publication / Exhibition (5 Marks)	Publication done, participated in exhibition	*Publication not done*, participated in exhibition	*Publication not done, not participated in exhibition*
Guide-100%	5 (Max)…….....	3(Max)…….	0 (Max)……..
Student's Name	**USN**	**Total Marks Phase II: (a)+(b)+(c)+(d) (e)+(f)+(g)**	
1			
2			
3			
4			

Title of Project Work:

Review 1: Signature of Guide	Examiner 1	Examiner 2
Review 2: Signature of Guide	Examiner 1	Examiner 2

Phase-II
Section-1

1. Rubrics for Phase-2 (Guide-copy)-Mechanical Engg.

Components	Sophisticated	Competent	Not yet complete
Review-1			
(a) Design and Drawings, Hardware Procurement, Fabrication status, Cost details of each component. (10 Marks)	Design and Drawing details completed, Hardware components procured, Fabrication started, cost comparison done.	Design and Drawing details *completed*, Hardware *components not procured.*	Design and Drawing details *incomplete*, Hardware components *not procured*.
Guide-100%	10 (Max)…….....	8 (Max)…….	6 (Max)……..
(c) Explanation (Individual) (10 Marks) Guide-100%	Effectively presented 10(Max)…….....	Fairly presented 8(Max)…….....	Insufficient 7(Max)…….....
1			
2			
3			
4			
(c) Work carried out and progress in percentage (20 Marks)	Hardware components procured, Fabrication completed and Performance trials are conducted.	Hardware components *procured*, Fabrication is *about to complete.*	Hardware components *procured*, Fabrication is *about to start.*
Guide-70%	14(Max)…….....	12(Max)…….	8(Max)……..
Committee-30%	6(Max)……	4(Max)……	4(Max)……
Review-2			
(d) Demonstration of working module (20 Marks)	Working as per objectives	Working partially as per objectives	Working, objectives not met
Guide	14(Max)…….....	12(Max)…….	8(Max)……..
Committee	6(Max)……	4(Max)……	4(Max)……
(e) Presentation and viva (Individual) (10 Marks) Guide-100%	Effectively presented and answered viva 10(Max)…….....	Fairly presented and answered viva. 8(Max)…….....	Poor presentation and not answered viva 7(Max)…….....
1			
2			
3			
4			
(f) Draft report submission within deadline and final report (25 Marks)	Submitted within deadline, Format followed, References in IEEE standard, technical details properly written, results discussed with graphs, tables and figures. Drawing details are given	Submitted within deadline, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures*	*Not submitted within deadline*, Format followed, References in IEEE standard, technical details written, *results not discussed with graphs, tables and figures*
Guide-100%	25 (Max)…….....	22(Max)…….	17(Max)……..
(g) Publication / Exhibition (5 Marks)	Publication done, participated in exhibition	*Publication not done*, participated in exhibition	*Publication not done, not participated in exhibition*
Guide-100%	5 (Max)…….....	3(Max)…….	0 (Max)……..
Student's Name	**USN**	**Total Marks Phase II: (a)+(b)+(c)+(d) (e)+(f)+(g)**	
1			
2			
3			
4			

Title of Project Work:

Review 1: Signature of Guide	Examiner 1	Examiner 2
Review 2: Signature of Guide	Examiner 1	Examiner 2

Phase-II
Section-2

2. Schedule and Rubrics for Phase-2 Review-1

Rubrics for Project phase-2, Review-1 are given in Table 2.1. Schedule of evaluation is given in Table 2.2. Students are informed to note the same and prepare accordingly.

Table 2.1 Rubrics Phase-2, Review-1

*CSE/ISE: Software & Hardware Requirements, Algorithm Design & Analysis, installation, Software Tool learning, Testing (Test cases) *ECE: Software installation, software learning and demo examples, Hardware procurement, cost comparison *EEE: Hardware procurement, cost comparison, programming part *Mech: Design and Drawings, Hardware Procurement, Fabrication status, Cost details of each component. *Civil: Design solution proposed/ Experiments conducted/ Software installation and learning and demo examples, cost comparison	Explanation (Individual)	Work carried out and progress in percentage	Total
10	10	20	40

* Delete details not related to your department

Table 2.3: Schedule for Phase-2, Review-1

	Div. A		
Team No.	Date and Time	Guide and Examiners (Initials)	Group No.
1			1
2			2
.			.
.			.

Project Coordinator H.O.D.
Date:

(For student notice board and Faculty circulation)

Phase-II
Section-3

3. Schedule and Rubrics for Phase-2 Review-2

1. Project Review-2 for final year projects is scheduled on ……. The details of rubrics of evaluation and instructions are given below. Students are informed to note and prepare accordingly.

Table 3.1 Rubrics for Phase-2 Review-2

Demonstration of working module	Presentation and viva (Individual)	Draft report submission within deadline and final report	Publication/ Exhibition/ Attendance	Total
20	10	25	5	60

2. Draft copy of report means; hard copy of report with all details except binding.
3. Report should adhere to the format provided by the department.
4. Report shall have 5 chapters as (i) Chapter 1: Introduction (ii) Chapter 2: Methodology (iii) Chapter 3: Technical Description (Hardware software / Machinery / Design / Construction..) (iv) Chapter 4: Results and Discussion (v) Conclusion and scope for future work.
   Additional chapters may be included depending upon the requirement.
5. Results and Discussion chapter shall include test results for different test scenarios.
6. Students should get their draft copy verified by their respective guide before Review-2.
7. Review-2 need to be presented by suitable power point presentation.

Project coordinator H.O.D.
Date:

(For student notice board)

Phase-II
Section-4

4. Final Year Project Exhibition

Date:

1 Final year students are informed to note the space allotment for Project Exhibition to be held on ……..., as given below-

Lab name	Lab name	Lab name	Lab name	Lab name
Group No.	Group No.	Group No.	Group No.	Group No.
Group No.	Group No.	Group No.	Group No.	Group No.
Group No.	Group No.	Group No.	Group No.	Group No.
Group No.	Group No.	Group No.	Group No.	Group No.
Group No.	Group No.	Group No.	Group No.	Group No.
Group No.	Group No.	Group No.	Group No.	Group No.

2. Students are instructed to prepare posters after discussion with guides. Note that posters are **not to be pasted on walls** with any type of gum tapes, but to be kept on table.
3. All the members of the project batch should be present.
4. Students are to follow the dress code of the institute.
5. Students should practice to present precisely.
6. Power point presentation to be prepared for enhanced explanation.
7. Students are informed to invite their parents to attend the project exhibition.

Project coordinator H.O.D.
Date:

(For student notice board)

Phase-II
Section-5

5. Guidelines for preparation of the Project Report

Project report is a written evidence of tasks, processes and activities that are undertaken and accomplished by the students while pursuing their projects and implementing it [3].

With reference to VTU (Visvesvaraya Technical University) guidelines, format for Project reports has been prepared and the students and students are required to adhere to the same. Project report shall include the following elements:

(ii) Cover Page
(iii) Certificate
(iv) Declaration
(v) Acknowledgements
(vi) Abstract
(vii) Table of Contents
(viii) List of Figures
(ix) List of Tables
(x) List of Symbols and Abbreviations (optional)
(xi) Chapter 1 Introduction
(xii) Chapter 2 Methodology
(xiii) Chapter 3 Experiments, Results and Discussion
(xiv) Chapter 4 Conclusion and Future Scope
(xv) References or Bibliography
(xvi) Appendices

* Additional chapters may be included depending upon the requirement.

Guidelines for preparation of above components is detailed in following sections-

5.1 Page Numbering

In the above structure, pages for (ii) to (ix) are numbered with the Roman numerals as i, ii, iii and so on. Components (x) i.e. Chapter 1 shall begin with Arabic numbering 1 and continues.

5.2 Margin, Spacing and font

Project reports should be typed neatly only on one side of the paper with 1.5 line spacing on a A4 size bond paper (210 x 297 mm).

The margins should be: Left-1.25″, Right-1″, Top-1″and Bottom-1″ (1 inch=2.54 cm).

All the contents of the project report should be in 'Times New Romans' font, and the size should be 12 throughout. All the text should be left with the 'justified' option.

5.3 Abstract

An abstract should be of 1-2 pages indicating salient features of the work. Abstract represents a summarized report of the complete project in a very concise and informative format covering (i) main objective and aim of the project (ii) the background information (iii) processes and methods used (iv) methodologies implemented (v) different test scenarios, followed with (vi) a brief conclusion of two to three lines talking about the results, scope and applicability of the project.

5.4 Table of Contents, List of Figures, List of Tables

Neatly positioned on the page, should be double line spacing, tabular form without table borders.

5.5 Writing chapters: Guidelines for writing different chapters is mentioned-

5.5.1 Chapters, sections and subsections

Chapters 1 Introduction- This chapter introduces the reader the technology related to project work in the first one or two sections. The development and need for research is highlighted in these sections. In the next sections, 'Literature Survey' is discussed. The chapters, sections and subsections may be numbered in the decimal form for e.g. Chapter 1, sections as 1.1, 1.2 etc., and subsections as 1.2.3, 3.5.1 etc.

The caption "Chapter 1" and so on must be right justified (font size 16), followed by the title of chapter centered, with upper case, bold(font size 18). Section numbers along with their headings must be left justified with section number and its heading in bold with font size 16 and subsection and its heading in bold with font size 14. The body or the text of the report should have font size 12.

Figures and tables must be numbered chapter wise for e.g.: Fig. 2.1 Block diagram of a serial binary adder, Table 3.1 Primitive flow table, etc. with font size 10. Caption for figure should be below the figure and for tables it should be above the table. Only SI units are to be used in the report. Important equations must be numbered in decimal form giving the chapter number and equation number, for e.g.

$$V = IZ \qquad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (1.2)$$

All equation numbers should be right justified.

'Chapter 1 Introduction' should include the components as mentioned below-

1.1 to 1.5 Introduction (number of sections sections depend on the content)

1.6 (Next section, can be 1.5 also) Literature Survey

1.7 Motivation and Problem Definition

1.8 Objectives fulfilled

1.9 Scope and limitations

1.10 Relevance and Type

1.11 Organization of the report

The format for writing organization of the report is shown-

1.11 Organization of the report

The project report is organized as mentioned below-

Chapter 1: Chapter 1 gives the introduction to ……. Looking into the requirements of …….techniques are discussed in this chapter. …….Literature survey is discussed. Objectives and scope for the project work are defined.

Chapter 2: Chapter 2 presents the methodology for ……. Design/Simulation steps for verification of …….system are explained.

Chapter 3: In chapter 3, results obtained are presented. Results for different …..(write test scenarios) are explained and discussed.

Chapter 4: In this chapter, conclusion is given on the requirement of …….. Scope for future work is given.

In the end, a reasonable bibliography and appendices are given for the readers help.

'Chapter 2 Methodology' to be organized as mentioned below-

2.1 **…….**System

2.2 Methodology

2.3 Block schematic

2.4 Design/Simulation/…..(any other) steps (use sub sections)

2.5 Description of resources required (hardware and software)

- Summary

'Chapter 3 Results and Discussion' includes the presentation of results using suitable figures, graphs and charts. Different test scenarios should be clearly explained along with results. Discussion on results should be presented that helps to write the conclusion. At the end summary is to be given. Chapter 3 can be organized as mentioned below-

3.1 Test scenario1

3.1.1 Use subsections for variation in parameter in 3.1

…

3.2 Test scenario2

3.2.1 Use subsections for variation in parameter in 3.2

….

3.3 Test scenario2

3.3.1 Use subsections for variation in parameter in 3.3

….

- Summary

'Chapter 4 Conclusion and future scope' includes an assessment of the success of the work carried out. Comparison tables of results obtained and statement of conclusion. If the expected results are not obtained, the reason for the same can be identified. Suggestions for scope for the future work is presented to explain how the work can be carried for value addition, for a different design, for implementing a different test scenario or implementation on a different platform.

5.6 Number of pages, Description of Technical content and Budget

The project report should be minimum of 50 pages. Where short excerpts from published work are desired to be included, they should be appropriately referenced.

- Proper attention is to be paid to the technical contents and organization of the report and clarity of the expression. Due care should be taken to avoid spelling, grammatical and typing errors.
- Hardware projects must include: the component layout, complete circuit with the component list, numbers used, etc. and the main component data sheets as Appendix.

- Software projects must include a virus free disc, containing the software developed by them along with the read me file. Read me file should contain the details of the variables used, salient features of the software and procedure of using them: compiling procedure, details of the computer hardware/software requirements to run the same, etc.
- If the developed software uses any public domain software downloaded from some site, then the address of the site along with the module name, date of download etc. must be included on a separate sheet. It must be properly acknowledged in the acknowledgments.
- A budget sheet must be provided detailing the expenses incurred (excluding the expenses for report binding). Sponsored Projects must also satisfy the above requirements along with statement of accounts, bills for the same dully attested by the concerned guides to process further.

5.7 Reference OR Bibliography

The references should be numbered serially in the order of their occurrence in the text and their numbers should be indicated within square brackets for e.g. [3]. If the references are not indicated throughout the report, then reference papers should be listed with title as Bibliography.

The section on Bibliography or References should list the references in the IEEE format as mentioned in guidelines for synopsis.

5.8 Number of reports

One copy to the department, One copy to the concerned guide(s), specified number of copies to the sponsoring agency, One copy to the candidate. For making copies dry tone Xerox is suggested.

5.9 Guide's approval

Before taking the final printout, the approval of the concerned guide(s) is mandatory and suggested corrections, if any, must be incorporated.

5.10 Binding the report

The reports submitted to the department/guide(s) must be hard bound, with a hard cover. Separator sheets, used if any, between chapters, should be of thin paper and **not of plastic.**

Colour of the outer cover/front page of project report is as per VTU guidelines. Foam sheets shall not be used for binding.(Print and copy protected pdf can be shared with students using college website)

Phase-II
Section-6

6. Record of Final internal Marks for Project work 15XYP85

	Div-A					
Group No.	**Name**	**USN**	**Marks**	**Title, Relevant field and Type**	**Guide**	**Examiners**
A1						
A2						
Div-B						
B1						
B2						

Note: Project coordinator shall collect the evaluation sheets as in section 1 (Phase-II) from guides and prepare the consolidated copy of project internal marks.

Project Coordinator H.O.D.
Date:

(For department use)