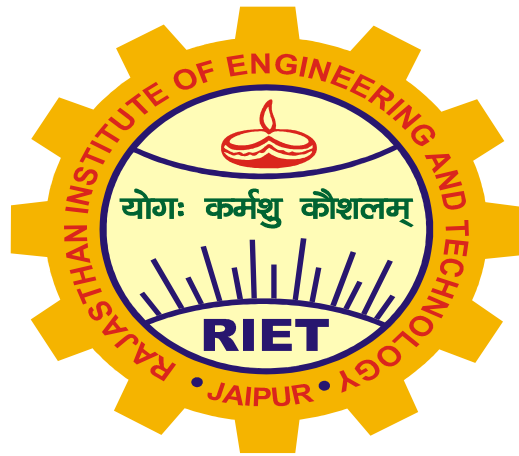


Department of Information Technology



MINOR PROJECT GUIDELINES

IT Department

SESSION: 2011-2012

Rajasthan Institute of Engineering & Technology
Jaipur

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1. CALENDAR FOR THE MINOR PROJECT

Sr. No	Topic	Date
1.	Submission of Minor Project Proposal to Minor Project In-Charge, Department of IT, RIET	12-09-2011 to 19-09-2011
2.	Approval of Minor Project Synopsis by, Minor Project In-Charge, Department of IT, RIET	05-10-2011 to 09-10-2011
3.	Submission of the Minor Project Report (one copy in bound form to Minor Project In-Charge(IT), Department of IT,RIET	22-11-2011 to 24-11-2011
4.	Viva-Voice to be conducted	

NOTE: Please refer to the activity schedule for getting the detail information such as mid semester and end - semester progress report and presentation dates.

2. PROFORMA FOR APPROVAL OF B.TECH. VII SEM MINOR PROJECT

Minor Project Proposal No_____

(for office use only)

1. Name of the student -----

2. Enrolment of the student -----

3. E-mail: -----

4. Mob. No. -----

5. Title of the Minor Project -----

6. Name of the Guide -----

For Office Use Only:



Approved



Not Approved

Signature of the Guide

Date: -----

Suggestions for reforming the Minor Project:

1

2

3

4

5

6

3. GUIDELINES FOR VII SEM MINOR PROJECT FORMULATION

Every student is required to carry out project work under the supervision of a faculty member of the department. However, a student may also opt to pursue his project work in a reputed industry/institution with the consent of Department/Institute. In such cases, the department must look into the suitability of the projects and assign one internal guide/supervisor.

The internal supervisor shall monitor progress of the student continuously. A candidate is required to present the progress of the project work (at least twice) during the semester at an appropriate time decided by the Department. There will a final presentation of the project work at the end of the semester. It is recommended that project is to be chosen which should have some direct relevance in day-to-day activities of the candidates in his/her institution.

OBJECTIVES

- Application of knowledge and techniques learnt in theoretical classes for developing the s/w for real problems.
- Gives an insight into the working of the real organizations/companies.
- Gaining deeper understanding in specific functional areas.
- Helps in exploring career opportunities in their areas of interest.

The course B.Tech. Minor Project is one that involves requirement analysis, feasibility analysis, Database design coding, testing, implementation and maintenance

MINOR PROJECT PROPOSAL (SYNOPSIS) STRUCTURE

Minor Project proposal should be prepared in **consultation with the guide**. It should clearly state the objectives and environment of the proposed project to be undertaken. Ensure to include the following items while submitting your project synopsis. Project synopsis may contain 10-20 pages and sequence of contents strictly should be in the following order:

- 1) Cover and Title page
- 2) Synopsis Approval Performa duly filled and signed by the student
- 3) Index
- 4) Acknowledgement
- 5) Introduction and objective of the project
- 6) Analysis (Feasibility Study, DFD 0 Level, 1-Level and 2 Level/ER Diagram etc)
- 7) H/W and S/W Requirement
- 8) Table and Structure, Number of Modules, Detail of Modules, Data Structure
- 9) Types of Reports
- 10) Scope of future application

ELIGIBILITY OF MINOR PROJECT GUIDE

1. A person having Ph.D./ M.Tech./ MPhil in Computer Science.

or

2. A person having BE/B.Tech (Computer Science), MCA, MSc. (Computer Science) with minimum two years of experience in s/w industry/teaching.

4. MINOR PROJECT PROPOSAL (SYNOPSIS) SUBMISSION AND APPROVAL

COMMUNICATION OF SYNOPSIS APPROVAL

A list of approved synopsis will be put on the notice board of the Institute as per the dates mentioned in the activity schedule. In case of non approval, the suggestions for reformulating the project will be communicated to the student. Students can resubmit the modified synopsis to Project In-Charge, Department of IT, RIET as per the specified time given in activity schedule.

MINOR PROJECT REPORT STRUCTURE

The Project should be prepared in consultation with the guide and may contain 100-120 pages (including coding). Project Report should strictly follow the points given below:

- 1) Cover and Title page
- 2) Synopsis Approval Certificate/Company Certificate
- 3) Index
- 4) Acknowledgement
- 5) Certificate of Originality
- 6) Introduction/Aims and Objective
- 7) System Analysis
 - 7.1 Identification of Need
 - 7.2 Preliminary Investigation
- 8) Feasibility Study
 - 8.1 Technical Feasibility
 - 8.2 Economic Feasibility
 - 8.3 Operational Feasibility
- 9) Analysis (Feasibility Study, DFD 0 Level, 1- Level and 2 Level/ER Diagram, and Data structure, Table structure etc)
- 10) S/W Engineering. Paradigm applied
- 11) S/W & H/W Requirement Specification

- 12) System Design
- 13) Screen Shots
- 14) Coding
- 15) Validation Checks
- 16) Implementation and Maintenance
- 17) Testing (Testing techniques and Testing strategies)
- 18) System Security measures
- 19) Various types of Reports/Modules
- 20) Pert Chart/Gantt Chart
- 21) Future scope of the project
- 22) Bibliography/References/Glossary
- 23) Original Copy of the Approved Synopsis

SUBMISSION OF A MINOR PROJECT REPORT

Only one Copy of the project report in bound form is to be submitted to the Project In-Charge, Department of IT, RIET. Another copy of the Project Report must be retained by the student which should be produced before the examiner at the time of the Viva-voice.

MINOR PROJECT EVALUATION

As per the G. B. Technical University norms Project Report shall be evaluated by the external examiner at the end of the semester. However there will be continuous monitoring of the minor project progress report during the semester and distribution of marks shall be as follows:

Subject Code	Sessional		Semester End Exam	Total
	Mid Sem Present	End Sem. Present	Viva	
MinorProject (7IT1)	20	20	10	50

Viva-voce and class presentation is compulsory and forms part of evaluation. A student in order to be declared successful in the project must secure 50% marks in each component (i) Sessional and (ii) Semester End Exam. Pass in both the components is compulsory. If a student submits project report as per the activity schedule and fails to attend the viva, at end of the semester, her/his Project will remain incomplete and should contact Project In-Charge(IT), department of IT, RIET.

Unfair cases of copied versions of the project synopsis and project reports will be sent to Unfair Means Committee headed by Academic Dean, RIET for action.

5. IMPORTANT POINTS WHILE PREPARING THE MINOR PROJECT PROPOSAL

- The cover page must be hard bound in *Black Color; with Gold Embossing*.
- The size of the report would depend on the project undertaken. However it must be 150 to 200 typed pages (Single space) on A4 size paper.
- All the students are required to use the uniform font and format (except in heading and subheadings) throughout the text of the report. For example, if anybody uses “Times New Roman” of font size 12 in the text, then he/she will be using the same throughout the report.

- The project report must accompany a certificate authenticating the originality of the work done in the prescribed format, as indicated below.
- Each student will make three copies of project report in the recommended format. One copy is to be submitted to the Project In-Charge, Department of IT, RIET individually on or before the due date. The students will keep one copy of the project for their further reference in future and one copy to the organization where they have done their training (if required).
- Each student is required to make a copy of project in CD and submit along with his/her project report.
- There should not be any deviation from the cover page as given in the format prescribed below.
- Bibliography / References.

6. IMPORTANT POINTS WHILE PREPARING THE MINOR PROJECT REPORT

In case students require any letter from the Institute for doing a project in any organization, they can get a “Project Trainee” letter attached with this document attested by the Director/Executive Director/CRC of the Institute.

Submission of Project should reach the institute at-least one month prior to start of term end examinations. The project report should accompany various supporting documents as described in the guidelines. It is mandatory to submit the synopsis for the project chosen.

The student can directly start working on the project selected after due permission from Project Guide / IT Project Coordinator. The student is required to prepare **three hard copies** of the project report hardly bound in **BLACK** color. Student is also required to submit **two softcopies on CD** (full source code in working condition). Along with this, student should also keep the soft

copy of the project and the project report ready for the viva-voce and presentation at the time of Viva-Voice by the Examiner.

Formatting of Project:

The entire project report should be nicely composed and presented. Students should use only A4 / Letter (8.27 x 11.69 inches) size paper. Students should leave at-least 3.00 mm margin from all edges of paper. The project report should be nicely typed in good word processor and should avoid spellings and grammatical mistakes. Students should use one side of paper for printing. The project should be Hardbound and double spacing should be preferred. Along with the project report contents and source code, students are required to follow the points given below.

Cover Page – The cover page sample is provided as an appendix, the format should be strictly followed.

Letter of Authentication - To be submitted by students declaring that the Project Report is the original work of student and no reward had been attained for same project ever before. Students are advised not to **COPY** the project report from other students.

Authorization from Organization / Institute/ University/ where such Project have been implemented - With certificate showing the student name, project name with future recommendations of organization if any.

Certificate from Project Guide - Certificate from the Project Guide certifying the project work done under his/her guidance along with course, student name & project details complete in all respects.

The size of the project report can be approximately 150-200 pages, which include the following details: In along with it, if the student feels to add on any other topics as per the demand of the project or want to include the functionalities as per the SDLC or the Software Engineering model used, that can be done and included in the Project Report. The project report must include all the components as per the SDLC (Software Development Life Cycle).

It is highly recommended to follow the approaches of Software Engineering methodology. Design documents should be reviewed properly. Testing should have been taken at various levels followed by acceptance test based on SRS and user manual. Students are advised

to implant and present the alternative methods and techniques reviewed during the Project phases. Project 11 should not be close copy or resemblance of commercial / freely available software from Internet or market. Students should avoid concept introduction of various SE / SAD terminologies.

7. LIST OF BROAD AREAS OF APPLICATION AND RELATED TOOLS

FRONT END /GUI Tools	VB, Power Builder, X-Windows, Oracle 8.0 or higher version, VC++, Developer 2
RDBMS/BACK END	Sybase, SQL, SQL Server or higher version
LANGUAGES	C, C++, JAVA, VC++, C#, ASP
INTERNET TECHNOLOGIES	DHTML, Java Script, VB Script, Perl & CGI Script HTML, XML, SWING, JSP, ASP, Java Beans, Java Servlets, COBRE, UML, EDA, Broadvision, ATG, CSS,XSL, NET Dynamics, ASP Server, J2EE, Silver Stream,Cold Fusion etc.
NETWORKING TECHNOLOGIES	ATM, Frame Relay, TCP/IP, SNMP, GSM,VOIP, PPP,IP-PSTN, SONET/SDH

WIRELESS TECHNOLOGIES Blue Tooth, 2G, 3G, ISDN, EDGE, Wi-fi

REALTIME OS/EMBEDED QNX, LINUX, OSEK,DSP,VRTX,RTXC, Nucleus

SKILLS

OPERATING SYSTEMS WINDOWS, XP, VISTA, WINDOWS 7 DOS, LINUX

SUN, VRTX, SOLARIS, HP/UX, PSOS, IRIX

APPLICATIONS Financial/Manufacturing/Multimedia/Computer Graphics
InstructionalDesign/DBMS/Internet/ Intranet/Computer
Networking-Communication Software./ECommerce/
ERP/MRP/TCP/IP Internals/Routing Protocols, Socket
Programming Implementation of Switches and Routers

***Note:** Projects should not be developed using the packages like Dbase III, Foxpro, Visual Foxpro, and MS Access. Also Projects should not be developed using the combination of VB as the front end and MS Access as Back end. Students can also develop applications using tools/languages/Software/not listed above if they are part of latest technologies*

8. ACKNOWLEDGEMENT

I am very grateful to my minor project guide Dr./Mr./Ms. _____ for giving his valuable time and constructive guidance in preparing the Synopsis/Minor Project. It would not have been possible to complete this minor project in short period of time without his kind encouragement and valuable guidance.

Date:

Rajasthan Institute of Engineering & Technology

Signature

Name of the Student