Kingdom of Saudi Arabia Ministry of Higher Education Umm Al-Qura University





# College of Computing at AlQunfudah Department of Computer Science

# Graduation project Handbook

2020-2021

This document outlines the contents of Graduation Project (GP) handbook, which is intended to be used by students and faculty members in the Computing College at AlQunfudah, Umm Al Qura University, Makkah Al Mukarramah, Kingdom of Saudi Arabia. It provides a framework for use in undergraduate computer science projects.

## **Table of Contents**

<b>1</b> .	Glossary	5
2.	Graduation Project Course Objectives	6
<i>3</i> .	Overview of GP Process	_7
	Assigning Students to Supervisors and Projects	7
	Project Supervision and Deliverables	8
	Project Evaluation	9
	Miscellaneous Notes	9
4.	GP Deliverables	_10
	Overview	10
	TABLE I – GP Deliverables (for two semester plan)	
	TABLE II – GP Deliverables (for one semester plan)	
	TABLE III – Documents recommended and can be part of the deliverables shown in Table I and Table II	
	End of GP Submission	11
5.	GP Evaluation	_13
	Evaluation Criteria	12
	Table IV: GP Evaluation Criteria	12
Αŗ	opendix A	_14
	Project Management Plan	15
	Project Requirements Specifications (PRS)	16
	Project Design Description (PDD)	17
	GP Report and Proposal Style Guideline	18
	GP Report Prefatory Pages	_19
	Title Page	20
	Contact Information	21
	Intellectual Property Right Declaration	_23
	Anti-Plagiarism Declaration	25

Acknowledgement	27
Abstract	29
Table of Contents	34
GP Report Chapters	36
Chapter 1 – Introduction	
Chapter 2 – System Analysis	36
Chapter 3 – Design Considerations	36
Chapter 4 – System Design	37
Chapter 5 – Implementation and Validation	37
Appendices	37
Deduction Rules	38
Plagiarism	
Result Compilation	39
ibliography	_40
Miscellaneous Forms	41
Project start form	43
GP Regular Supervision Record Form	45
GP Final Project Rubric – Semester 1	46
GP Final Project Rubric – Semester 2	47
GP Resource Request Form	48
GP Survey Form	_49

GP Resource Request Form	46
GP Survey Form	48
GP Assessment	50

## 1. Glossary

GP:	Graduation Project.
CS:	Computer Science
CCG:	College of Computing at AlQunfudah
Supervisor:	A fulltime faculty member in the College
Examiner:	responsible for the supervision of a group of <b>GP</b> . An expert of the relevant area chosen from respective department, or
	other departments of the College.
Coordinator:	A faculty member appointed by the department to coordinate the GP tasks, and prepare GP course folders.
Student:	A student registered for GP in Computer Science department
	at CCG, Umm Al Qura University, KSA.
Group/Team:	A group of students formed as a team to work on the GP.

#### 2. Graduation Project Course Objectives

Graduation Project (GP) is an important part of every engineering and computer science discipline at undergraduate level. The main purpose of these projects is to encourage students to apply the knowledge acquired during their studies. Students are also expected to show how proficient they are in solving real world problems with certain constraints for the outcome-based evaluation suggested by ABET and ACM/IEEE Computing Curricula 2001 [1]. State of the art research shows that undergraduate students' projects have the potential to nurture the nascent minds of students toward the advanced knowledge of industry and research domain, in addition to fulfillment their academic needs. In order to emanate the most out of students and their supervisors, a GP need to follow several standards.

Many students deem the GP course very different from normal lecture-based courses because it demands independent objective formulation, activity planning and time management. Hence, a structured template and lifecycle for GP is essential for this course [2]. It can help students to the standards necessary to be followed to obtain a high quality GP course [3]. This handbook is written to serve the same purpose for undergraduate students, enrolled in a GP course at CS department, CCG.

A GP course at Umm Al Qura University consists of a number of activities for producing world class outcomes called "GP Deliverables". This handbook contains a minimal document set (GP Deliverables and assessment rubrics) and the content of each document, based on timeline, look and feel as well as the structure of some standards [4] [5] [6] [7] [8] [9] [10].

#### 3. Overview of GP Process

The GP is by default spread over the last two semesters, called semester 1 and semester 2 (twosemester plan). Semester 1 and Semester 2 will be marked separately based on the work progress shown, final presentation done, and deliverables submitted by the students in each semester. Prior to Semester 1, students are encouraged to communicate with prospective supervisors of their respective department to complete a project proposal. However, the actual registration of the GP course will formally start at the beginning of Semester 1. By the end of Semester 1, the students have to complete the project proposal, project management plan, project requirement specification, and do a presentation, which shall be marked and graded. For the next semester, grade is awarded at the end of the Semester 2 after the demonstration and presentation of the project and submission of the project report. Following are some important facts in the GP process.

#### **Assigning Students to Supervisors and Projects**

- A supervisor must be a full-time faculty member in the College and may be assisted by an external supervisor in case of an industrial project.
- In the semester prior to starting the GP, supervisors will be encouraged to submit their project ideas to the GP Coordinator, which will be published to respective departmental website and similar publishing areas. Students can also contact with their earlier chosen supervisor and submit their own ideas.
- At the beginning of Semester 1 of the project, an orientation session will be conducted to educate the prospective final year students, where this GP handbook will be presented and explained.
- The students formally register for the GP course in the 1<sup>st</sup> week of Semester 1. They can start formally by submitting the Final Year Project Start Form (see Appendix A) to the GP Coordinator, throughout the 2<sup>nd</sup> weeks.
- Students have to form a group or team consisting of 2 to 6 students, depending on the total number of students and the availability of the faculty staff.
- The GP Coordinator, in coordination with each supervisor, is responsible to prepare a list of the proposed projects and supervisors.

#### **Project Supervision and Deliverables**

- After the first startup meeting in the 2<sup>nd</sup> or 3<sup>rd</sup> week, the students have to write a formal project proposal (see Appendix A) with the guidance of their supervisor.
- The students are required to submit a finalized project proposal to the GP Coordinator for registration no later than the 4<sup>th</sup> week of the Semester 1.
- The groups continue submitting project deliverables to the supervisors (see Section 4 for detail on project deliverables). It is expected that by the end of the semester 1 each group should complete project proposal, project management plan, project requirement specification, and prepare either an oral or poster presentation.
- To keep track on weekly student-supervisor meetings and to monitor student progress, the students are requested to fill a Regular Supervision Record Form (see Appendix A) that contains the meeting minutes and submit it to the respective supervisor after the meeting to ensure that it is accurate. Finally, copies of the meeting minutes will be stored in the GP course folder.
- Each group will submit a report (project details, design, modeling, execution plan...) to their supervisor by 15<sup>th</sup> week of Semester 1.
- Semester 1 project evaluation and marking of final grade of the Semester 1 is held prior to the final examination at the end of the semester. Each group delivers a presentation detailing the work done in Semester 1 and early demonstration of the work, if any, in front of the supervisory committee as per schedule announced by GP Coordinator. The final grade of Semester 1 will be marked by the supervisory committee in consultation with the supervisor.
- The form of presentation in the Semester 1 is either through an oral presentation using Microsoft PowerPoint slides or through a poster. The duration of each oral presentation is total 20 minutes followed by a 10 minute question and answer session.
- According to the evaluation done and suggestions received from the committee, project work should be adapted, in consultation with the supervisor, at the start of Semester 2.
- Each group submits the Final GP Report (project details, design, modeling, execution plan, implementation...) by week 14 of Semester 2.

#### **Project Evaluation**

- The department should form an evaluation committee.
- Examiners and supervisory committee are invited to evaluate students' projects. The GP Coordinator is responsible for scheduling final project presentation, which is a public event where students of the last semester before GP should also be encouraged to attend the event.
- Evaluation should be carried out according to the rubrics provided in Appendix A and each project should be marked at least by three members of the evaluation committee.
- Plagiarism should be punished by scaling down students' marks by dissimilarity scores obtained from the online integrity checker www.turnitin.com.

#### Miscellaneous Notes

- The GP coordinator is responsible for archiving soft copies of the final report (in pdf format). She/he is also responsible for providing any other requested data for the purpose of maintaining a GP data repository or quality assurance.
- Students will be encouraged to fill up a survey at the end of Semester 2 (see Appendix A).
- Figure 1 (see Appendix A) portrays the highlight of the above mentioned GP process.
- If the students need to access resources pertaining to their project such as conducting a survey with human subjects within or outside the Umm Al-Qura University campus, access data from any proprietary database such as University Registration Department, to name a few, they need to fill up a form (see Appendix A) outlining the justification and scope of the project, get it signed by the project supervisor and the Head of the department.

#### 4. GP Deliverables

#### **Overview**

The following table contains a minimal set of GP deliverables along with the purpose and the deadline of submission. The set of deliverables (given in Table 1) depends upon the nature of the project. Each deliverable is mandatory and alternate can be defined in consultation with the supervisor and the GP coordinator (at least a week before submission deadline). Each submitted deliverable must be duly signed by the supervisor. The submission without supervisor's approval will not be considered. Late submissions are liable to get penalty decided by GP Committee. The students may get a zero for a particular submission.

Deliverable	Purpose	Student information	Due
	Start of Semester 1		
Project Proposal	To document the problem statement, need for the project, project scope and expected benefits	Submit to supervisor	4 <sup>th</sup> week of Semester 1
Project Report	To submit project deliverables (including the recommended documents of Semester 1 shown in Table III) in the form of a single report	Submit to Supervisor	15 <sup>th</sup> week of Semester 1
Final	An examiner is invited to evaluate students'	Present to Supervisor,	End of
Presentation	Grading of Semester 1 and End of Set	Examiners	semester 1
	Start of Semester 2		
Final Report	To bind all project deliverables (including the recommended documents of Semester 2 shown in Table III) in the form of a single report.	Submit to Supervisor	14 <sup>th</sup> week of Semester 2
Final Presentation & Demo	An examiner is invited to evaluate students' projects	Present to Supervisor, Examiners	End of semester 2
	Grading of Semester 2 and End of	of GP	

#### TABLE I - GP Deliverables (for two semester plan)

#### TABLE II - GP Deliverables (for one semester plan)

Deliverable	Purpose	Student information	Due
	Start of Semester		
Project Proposal	To document the problem statement, need for the project, project scope and expected benefits	Submit to supervisor	3 <sup>rd</sup> week
Final Report	To bind all project deliverables (including the recommended documents of Semester 1 and Semester 2 shown in Table III) in the form of a single report.	Submit to Supervisor	15 <sup>th</sup> week
Final Presentation & Demo	An examiner is invited to evaluate students' projects	Present to Supervisor, Examiners	15 <sup>th</sup> week

End of Semester and End of GP

#### TABLE III – Documents recommended and can be part of the deliverables shown in Table I and Table II

Deliverable	Purpose	Student information	Due
	Start of Semester 1		
Project Management Plan (PMP)	To document project development approach, associated milestones, agreed deliverables and dates	Submit to supervisor	10 <sup>th</sup> week of Semester 1
Project Requirement Specification (PRS)	To document the agreed requirements, expected features, constraints, interfaces. This document is also supposed to provide the system design and modeling	Submit to supervisor	13 <sup>th</sup> week of Semester 1
	Start of Semester 2		
Project Design Document	To document the design in order to provide the basis for implementation and unit test. Also describes the rationale for design decisions taken.	Submit to Supervisor	3 <sup>rd</sup> week of Semester 2
Test Document	To document how the project will be tested, and record the results.	Submit to Supervisor	14 <sup>th</sup> week of Semester 2
	Grading of Semester 2 and End of	of GP	

#### **End of GP Submission**

- Soft copy of the report and any other related files such as:
  - Report (soft copy of the final report, and power point presentation)
  - Code (complete source code of the project)
  - Demo (the executable in working order and a readme file containing the information about the software requirements (tools) and hardware requirements for the GP as well as the instructions or the steps (soft copy of the user manual) for running the GP executable).

## 5. GP Evaluation

#### **Evaluation Criteria**

Following table explains a guideline for the criteria to be used for GP evaluation/assessment along with description and evaluation authority (s).

Criteria	Description	Evaluation Authority(s)
Semester 1 and Semester 2 Process	To assess that student(s) have kept continuous contact during the work and have been on time both to meetings and in sending deliverables.	Supervisor
Semester 1 Project Presentation	To assess that student(s) have completed tasks and delivered documents expected in the first half of the course i.e. Semester 1. It includes both demonstration and presentation of the work.	Supervisor, Supervisory Committee
Semester 1 Proposal	To assess that the chosen project is worthy of being acceptable as a GP.	Supervisory Committee
Semester 2 Project Demonstration	To assess the end product developed in terms of interfaces, coding standards, and originality of the work. It requires student(s) to install project and run it for real time presentation.	Supervisor, Supervisory Committee, Examiner
Semester 2 Oral Presentation	To assess problem understanding, adequate analysis, quality of the design and presentation skills. Each group is required to discuss the completeness and accomplishment of the project.	Supervisor, Supervisory Committee, Examiner
Semester 1 and Semester 2 Project Report	To assess the structure of the project report. Student(s) are required to show planning and progress in an organized way with emphasis on the interpretation of the information gathered during the project. Project reports have to be submitted in both Semester 1 and Semester 2.	Supervisor, Examiner

#### **Table IV: GP Evaluation Criteria**

# Appendix A

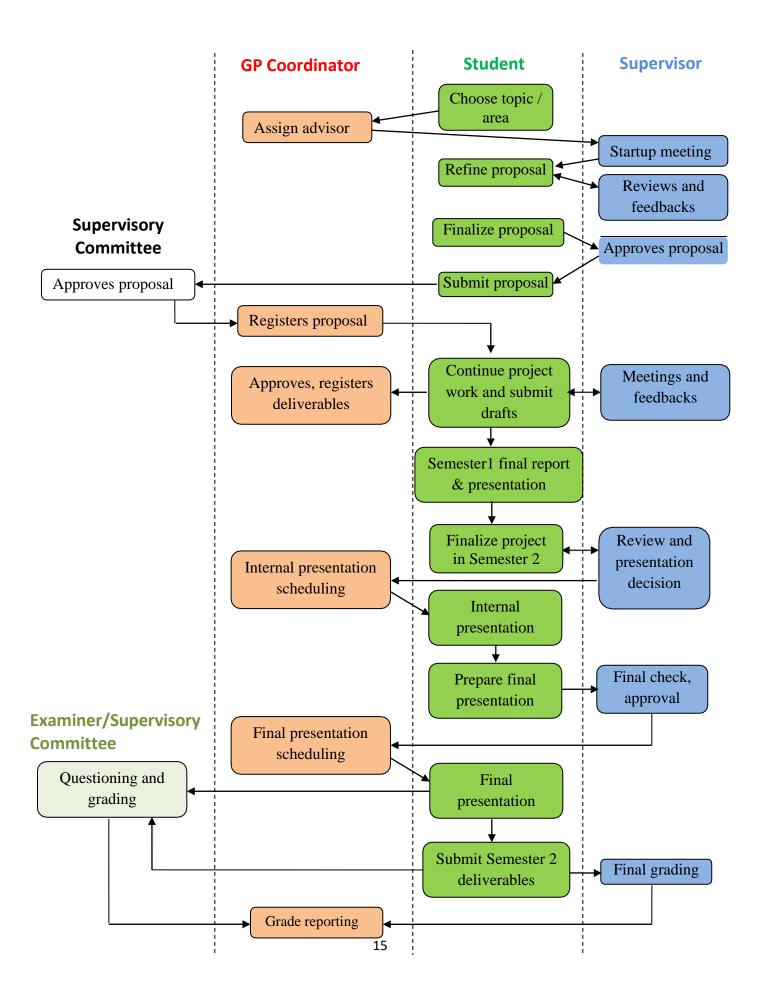


Figure 1: High level overview of GP Process

#### **Project Management Plan**

## Project Management Plan

#### *Cover Page* Table of Contents

#### **1 INTRODUCTION**

Project Overview Project Deliverables

#### **2 PROJECT ORGANIZATIONS**

Process Model Roles and Responsibilities Tools and Techniques

#### **3 PROJECT MANAGEMENT PLAN**

3.1 Tasks

- 3.1. n Task-*n*
- 3.1. n.1 Description Deliverables and Milestones Resources Needed Dependencies and Constraints Risks and Contingencies
- 3.2 Gantt Chart

#### **4 ADDITIONAL MATERIALS**

## **Project Requirements Specifications (PRS)**

## Project Requirements Specifications (PRS)

#### *Cover Page* Table of Contents

#### 1 INTRODUCTION 1.1 Project Overview

#### 2 SPECIFIC REQUIREMENTS

External Interface Requirements User Interfaces Hardware Interfaces Software Interfaces Communications Protocols Software Product Features Software System Attributes Reliability Availability Security Maintainability Portability Performance 2.4 Database Requirements

2.4 Database Requirements

**3 ADDITIONAL MATERIALS** 

#### **Project Design Description (PDD)**

## Project Design Description (PDD)

#### *Cover Page* Table of Contents

#### **1 INTRODUCTION**

Design Overview Requirements Traceability Matrix

#### **2 SYSTEM ARCHITECTURAL DESIGN**

Chosen System Architecture Discussion of Alternative Designs System Interface Description

#### **3 DETAILED DESCRIPTIONS OF COMPONENTS**

3.*n* Component-*n* 

#### 4 USER INTERFACE DESIGN Description of the User Interface Screen Images Objects and Actions

#### **5 ADDITIONAL MATERIALS**

#### **GP Report and Proposal Style Guideline**

#### Paper

Standard A4 size Width: 8.27" Height: 11.69" Weight: 90 Grams

#### Fonts, Type Styles

Font Size = 11 (Normal Text) Font = Times New Roman Title= 26 bold (Times New Roman) Sub-title=16 bold (Times New Roman) Heading 1 (Font Size) = 16 (Bold), Font = Times New Roman, UPPERCASE Heading 2 (Font Size) = 14(Bold), Font = Times New Roman Heading 3 (Font Size) = 13 (Bold, Italics), Font = Times New Roman

#### Margins

```
Top = 1.5"
Bottom = 1.0"
Left = 2.0"
Right = 1.0"
```

#### Spacing

Line Spacing = 1.5 Paragraph Spacing = 6 pts

#### Indentation

Indent all quotations comprising 4 or more lines by 5 spaces from left.

#### Page Numbers

Except for the title page, number all pages which come before the first page of the body chapters consecutively with lower case roman numerals (i, ii, iii, iv...).

The first page with Arabic numeral (1, 2, 3, and so on) starts from the page of the introduction but it is mentioned on page 2 onwards. Mention page numbers on the bottom right of the page. The first page of each section or chapter will not carry the page number; however the page number will be counted for the proceeding page.

#### Headers

The header will comprise the title of the Project report. On every odd page will appear the title of the report while on the even pages the title of the chapter or section will be mentioned. The first page of every section or chapter shall not carry the header.

#### **Binding guidelines**

The final report binding should have a dark blue background with Project information

written in silver color.

#### **GP Report Prefatory Pages**

#### **Title Page**

The title page should include the title of the report along with the name(s) of the department and university for which the report is written, month & year of submission and the project number. Each project will be assigned a Project number for future reference. Also included on the title page should be the name(s) of the author(s) of the report. Title Page is followed by a blank page. A sample title page is shown below.

BSc Project CS Department Project ID: CCG-CS -YYYY-xx Month Year



## **Centered Title Times Font Size 26 Bold**

## **Centered SubTitle Times Font Size 16 Bold**

## Centered Author(s) TimesFontSize18Bold

Dept. of \_\_\_\_\_

College of Computing at AlQunfudha

Umm Al-Qura University, KSA

#### **Contact Information**

Below is a sample contact information page. It follows the blank page (after the title page) and contains information about the author(s), external supervisor (if any), internal supervisor and the examiner.

This project report is submitted to the Department of Computer Science at Umm Al-Qura University in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer science department.

Author(s): Firstname Lastname Address: If applicable E-mail: If applicable, a long-term e-mail (not your student e-mail)

#### **University supervisor(s):**

Firstname Lastname Department name

#### **Co-supervisor**(if applicable):

Firstname Lastname Company/Organization full name Address: Phone: International standard, e.g. use +

Dept. of Computer science College of Computing at AlQunfudha Umm Al Qura University Kingdom of Saudi Arabia Internet: http://www.uqu.edu.sa Phone: +966 xxxxxxxx Fax : +966 xxxxxxxx

## **Intellectual Property Right Declaration**

Below is a sample for intellectual property right declaration page. It follows the contact information page.

## **Intellectual Property Right Declaration**

This is to declare that the work under the supervision of \_\_\_\_\_\_having title "\_\_\_\_\_\_" carried out in partial fulfillment of the requirements of Bachelor of Science in \_\_\_\_\_\_, is the sole property of the Umm Al Qura University and the respective supervisor and is protected under the intellectual property right laws and conventions. It can only be considered/ used for purposes like extension for further enhancement, product development, adoption for commercial/organizational usage, etc., with the permission of the University and respective supervisor.

This above statement applies to all students and faculty members.

Date: \_\_\_\_\_

Author(s):

Name: Firstname Lastname

Signature:	
U U	

Name: Firstname Lastname

Name: Firstname Lastname

Signature:

**Supervisor(s):** 

Name: Firstname Lastname Signature:

## Anti-Plagiarism Declaration

Below is a sample for Anti-plagiarism declaration, it follows the intellectual property right declaration page.

## **Anti-Plagiarism Declaration**

Date:

Author(s):

Name: Firstname Lastname Signature: \_\_\_\_\_

Name: Firstname Lastname Signature:

Name: Firstname Lastname Signature:

## Acknowledgement

Below is a sample for Acknowledgement page, it follows the Anti-Plagiarism Declaration page.

## ACKNOWLEDGMENTS

.....

## Abstract

Below is a sample for Abstract page. It follows the Acknowledgement page.

## ABSTRACT

[Abstract text]

Keywords: 3-4 keywords, maximum 2 of these from the title, which starts one line below the Abstract.

## **Table of Contents**

Below is a sample for Contents page. It follows the Abstract page.

#### **TABLE OF CONTENTS**

[Table of contents]

#### **GP Report Chapters**

From here onwards this document should be organized into different chapters specific to each project. Rest of the section outlines chapters to be included and the recommended contents of each chapter.

#### **Chapter 1 – Introduction**

#### **Chapter 1 INTRODUCTION**

Purpose of the Project Purpose of this Document Overview of this Document Existing System Existing system description Problems in the existing system

#### **Chapter 2 – System Analysis**

#### Chapter 2 SYSTEM ANALYSIS

Data Analysis Data flow diagrams System requirements Clients, customer and users Functional and data requirements Non-functional requirements Look and feel requirements Usability requirements Security requirements Performance requirement Portability requirements Proposed Solutions Alternative Solutions

#### **Chapter 3 – Design Considerations**

#### **Chapter 3 DESIGN CONSIDERATIONS**

Design Constraints Hardware and software environment End user characteristics Architectural Strategies Algorithm to be used

Reuse of existing software components Project management strategies Development method Future enhancements/plans

### **Chapter 4 – System Design**

### **Chapter 4 SYSTEM DESIGN**

System Architecture and Program Flow Major modules Sub modules Detailed System Design Detailed component description

### **Chapter 5 – Implementation and Validation**

#### **Chapter 5 IMPLEMENTATION AND VALIDATION**

### **Appendices**

Appendix A CODE

# **Appendix References**

### **Deduction Rules**

One of the most important objectives of GP course is to train students for effective time management, which is essential for successful project completion. To keep students on track and to maintain the flow of the project, GP Coordinator is responsible for announcing deadlines for upcoming deliverables. Supervisor continuously assesses students on a process criterion (see Appendix A) during the project. Late submissions and irregular meetings may result in deduction of marks depending upon the supervisor's judgment.

Criteria for late project report submission is as following:

Report Delay	Marks Deduction
1 day	(1/3marks)
2 day	(2/3marks)
3 day	(0 marks)
No Oral Presentation without	report submission

### **Plagiarism**

Plagiarism will result in 0 marks in Project Report, Project Presentation and Project Demonstration. In order to detect plagiarism, we will resort to the following online tools as needed or any other available tools at the university.

• https://www.turnitin.com/static/index.php

## **Result Compilation**

At the end of the Oral Presentation, marks and grades submitted by the project supervisor, supervisory committee and examiners are collected and complied for letter grades.

# **Bibliography**

- [1] The Joint Task Force on Computing Curricula, "Computing Curricula 2001," *IEEE Computer Society, Association for Computing Machinery*, December 15 2001.
- [2] Declan Delaney and Stephen Brown, "Document Templates For Student Projects in Software Engineering," Department of Computer Science, National University of Ireland, Maynooth, August 2002.
- [3] Richard Hall Thayer and Andrew D. McGettrick, "IEEE Software Engineering Standards: A Students' Version," in 20th Conference on Software Engineering Education & Training, 2007.
- [4] IEEE Std. 1008-1997, IEEE Standard for Software Unit Testing.
- [5] IEEE Std. 1012-1998, IEEE Standard for Software Verification and Validation.
- [6] IEEE Std. 1016-1998, IEEE Recommended Practice for Software Design Descriptions.
- [7] IEEE Std 1058-1998, IEEE Standard for Software Project Management Plans.
- [8] IEEE Std 1540-2001, IEEE Standard for Software Life Cycle Processes Risk Management.
- [9] IEEE Std. 829-1998, IEEE Standard for Software Test Documentation.
- [10] IEEE Std. 830-1998, IEEE Recommended Practice for Software Requirements Specifications.

# **Miscellaneous Forms**

# **GRADUATION PROJECT PROPOSAL**

Supervisor Name : Email :		
Project Title :		
Description :		
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Plans to achieve th	e project goal – Timeline	•
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<u>Comments:</u>		Approved with conditions
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		Committee chair signature

Date: .....

# **Project Start Form**

Fill in the information below as detailed as you can when submitting your project idea.

		Team Members	
Student ID	Name	Email	Credit Hrs *

Area of in	terest (Tick one or more)	
Development Track	Research Track	
1. Desktop application	1. Requirement Engineering	
2. Web application	2. Design & Architecture	
3. Client-Server application	3. Verification & Validation	
4. Computer Game	4. Project Management	
5. Mobile application/Game	5. Tools	
6. Others:	6. Others:	

Preferred supervisor (if any):

•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	••	•••	•••	•••	••••	• • • •
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**GP Coordinator , Head of CS Department** 

# **GP Regular Supervision Record Form**

After each weekly project meeting with students, the supervisor will fill this form and will submit it to GP coordinator after the meeting.

	SECTION -1
(to be comp	leted by the STUDENT prior to
r i i i i i i i i i i i i i i i i i i i	meeting)
Students' Names:	Supervisor Name:
Date:	Date of previous meeting:
	SECTION -2
(to be completed by the SUPE	
Work undertaken since last meeting:	
	SECTION -3
Work student should undertake between	now and next meeting:
	C C

# **GP Final Project Rubric – Semester 1**

Project Title : .....

Supervisor :	••••••				Signa	atur	e	••••	•••••		•••••	••••	. Dat	te	•••••	•••••				•••••		•				
G	roup Members										I	Evalı	uatior	n Cri	teria	l										
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Head of CS Department

# **GP Final Project Rubric – Semester 2**

Supervisor :	• <b>:</b>		S	igna	ture.	••••	••••	••••	•••••																	-
(	Group Members											Eval	uatio	n Cri	teria	1										
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(S : Supervise	or M: Member P : Pre	esiden	t )				- -		ct Ev			0	•								1					·

	r i oject Evaluat		
	Committee President	C	Committee Member
Name :	Signature:	Name:	Signature:

Head of CS Department



# **GP Resource Request Form**

Before asking resources relevant to any project, certain approvals will be needed. If the subject of the request is confined to your own class, office, or department, please obtain approval from your Head, Dean, Coordinator, Director, or other appropriate manager. As well, it is necessary to obtain approval if your request pertains to human subjects.

	SECTION -1
	mpleted by the STUDENT prior to request)
Students' Names:	Supervisor Name:
Date of request:	Expected date of completion of using the resource(s):
Briefly describe the resources you	are requesting, address of the resource and its purpose:
How will you use the data/inform	ation and who will it be shared with?
	SECTION -2
(to	be completed by the SUPERVISOR)
Please justify the above request:	
	SECTION -3
	Student (Team Leader)
	Student (Team Leader):
Signatures:	Supervisor:
	Supervisor.
	Chairman/Dean:

# **GP Survey Form**

(Survey)	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
	5	4	3	2	1
Through this capstone project survey, we are asking you students at Computer Science. All responses will be kep internal assessment tool to improve our GP programs. Wo out this survey. My Capstone Project has given me the ability to:	t confi	dential	and use	ed as ar	ı
Commit to the plan and monitor the decisions made in					
the previous course in developing the software system.					
design and implement a computer-based system,					
process, component or program to meet desired goal.					
Apply testing and validation concepts and techniques					
to the system.					
Apply core computing knowledge such as					
programming, database, algorithm analysis,					
modelling and design, demonstrating the					
comprehension of trade-offs.					
Demonstrate the ability to work independently and as					
part of a team with colleagues and advisors utilizing					
good work dynamics.					