



Final Project Course Definition File

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

1. Basic Information:

| | |
|---------------------------------------|---------------|
| Course Name | Final Project |
| Course ID | IPI405 |
| Contact Hours (Registered Sessions) | 18 |
| Contact Hours (Synchronized Sessions) | 18 |
| Mid Term Exam | NO |
| Exam | 2 |
| Registered Sessions Work Load | 36 |
| Synchronized Session Work Load | 18 |
| Credit Hours | 4 |

2. Pre-Requisites:

| | |
|----------------------|--------|
| Course | ID |
| Software Engineering | ISE301 |

3. Course General Objectives:

Students in this course have to build a real software product applying their acquired skills in the program. Students learn in this course how to write a technical report and how to insert citations, as well as how to make a professional presentation for the project committee.

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

4. Intended Learning Outcomes (ILO):

| Learning Outcomes codes | Learning Outcomes |
|-------------------------|----------------------------------------------|
| LO1 | Understand final project basics. |
| LO2 | Learn how to write project requirements. |
| LO3 | Learn how to write project proposal. |
| LO4 | Learn how to write literature study. |
| LO5 | Review software analysis tools. |
| LO6 | Review software design tools. |
| LO7 | Learn important implementation skills. |
| LO8 | Learn writing technical reports skills. |
| LO9 | Learn how to write citations and references. |
| LO10 | Learn presentations skills. |
| LO11 | Learn advanced topics in Word. |

5. Course Content

| LO | Course Syllabus | Recorded Sessions | Synchronized Sessions | Type | Additional Notes |
|-----|----------------------------------|-------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| LO1 | Understand final project basics. | 2 | 2 | <input type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

| | | | | | |
|------------|------------------------------------------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| LO2 | Learn how to write project requirements. | 2 | 2 | <input type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
| LO3 | Learn how to write project proposal. | 2 | 2 | <input type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
| LO4 | Learn how to write literature study. | 2 | 2 | <input type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
| LO5 | Review software analysis tools. | 2 | 2 | <input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
| LO6 | Review software design tools. | 2 | 2 | <input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars | Visual Studio 2013 |

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

| | | | | | |
|-------------|----------------------------------------------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| | | | | <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | |
| LO7 | Learn important implementation skills. | 2 | 2 | <input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
| LO8 | Learn writing technical reports skills. | 1 | 1 | <input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
| LO9 | Learn how to write citations and references. | 1 | 1 | <input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
| LO10 | Learn presentations skills. | 1 | 1 | <input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

| | | | | | |
|-------------|--------------------------------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| LO11 | Learn advanced topics in Word. | 1 | 1 | <input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others | Visual Studio 2013 |
|-------------|--------------------------------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|

6. Assessment Criteria (Related to ILOs)

| LO Code | LO | Assessment Type | | | | |
|------------|------------------------------------------|----------------------------------------|----------|-------|--------------------------------------------|---------|
| | | Interactive Synchronized Collaboration | Practice | Exams | Presentations And Face-to-Face Assessments | Reports |
| LO1 | Understand final project basics. | X | | | | |
| LO2 | Learn how to write project requirements. | X | | | | X |
| LO3 | Learn how to write project proposal. | X | | | | X |
| LO4 | Learn how to write literature study. | X | X | | | X |
| LO5 | Review | X | X | | | X |

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

| | | | | | | |
|-------------|----------------------------------------------|---|---|--|---|---|
| | software analysis tools. | | | | | |
| LO6 | Review software design tools. | X | X | | | |
| LO7 | Learn important implementation skills. | X | X | | X | |
| LO8 | Learn writing technical reports skills. | X | X | | | X |
| LO9 | Learn how to write citations and references. | X | X | | | X |
| LO10 | Learn presentations skills. | X | X | | X | |
| LO11 | Learn advanced topics in Word. | X | X | | | X |

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

7. Course Syllabus (18 hours of total synchronized sessions)

| Chapter | Contents | |
|-----------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1) Final project basics | Final project | <ul style="list-style-type: none"> Final project objectives Final project phases The supervisor |
| | Choosing the project | <ul style="list-style-type: none"> Choosing the project steps Finding a problem Team work Find the title |
| | Choosing the team work | <ul style="list-style-type: none"> How to choose the team work |
| (2) Requirements | Requirements identification | <ul style="list-style-type: none"> Project life cycle Requirements identification steps Functional Requirements Nonfunctional Requirements Requirements test |
| | Example | <ul style="list-style-type: none"> Example |
| (3) Project Proposal | Writing the project proposal | <ul style="list-style-type: none"> Cover page The title Table of Contents Project Aim Key words Objectives Time table |

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

| | | |
|-------------------------|---------------------------------|----------------------------------------------------------------------------------------------------|
| | | <ul style="list-style-type: none"> • Tools • Initial References |
| | Example | <ul style="list-style-type: none"> • Example |
| (4) Literature Study | Literature Study | <ul style="list-style-type: none"> • Literature Study elements |
| (5) Analysis | Analysis | <ul style="list-style-type: none"> • Actors • Use Cases |
| | Example | <ul style="list-style-type: none"> • Example |
| (6) Design | Conceptual Diagram | <ul style="list-style-type: none"> • Conceptual Diagram • Sequence Diagram |
| | Classes Diagram | <ul style="list-style-type: none"> • Classes Diagram |
| | Database Diagrams | <ul style="list-style-type: none"> • ERD |
| (7) Implementation | Web Pages | <ul style="list-style-type: none"> • Web Pages Design hints |
| | Windows Forms | <ul style="list-style-type: none"> • Windows Forms Design hints |
| (8) The Report | The Report | <ul style="list-style-type: none"> • Report parts |
| | How to write a technical report | <ul style="list-style-type: none"> • Technical report |
| (9) References | Plagiarism | <ul style="list-style-type: none"> • Plagiarism |
| | Citations | <ul style="list-style-type: none"> • How to write citations and references |
| (10) Presentation | Presentation content | <ul style="list-style-type: none"> • Presentation content |
| | Presentation skills | <ul style="list-style-type: none"> • Presentation skills |
| | Body language | <ul style="list-style-type: none"> • Body language |
| (11) Word Skills | Table of Contents | <ul style="list-style-type: none"> • Create Table of Contents |
| | Table of Figures | <ul style="list-style-type: none"> • Create Table of Figures |

| | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Syrian Arab Republic |  الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY | الجمهورية العربية السورية |
| Ministry of Higher Education | | وزارة التعليم العالي |
| Syrian Virtual University | | الجامعة الافتراضية السورية |

| | | |
|--|---------------------|--------------------------------------------------------------------------------|
| | Table of References | <ul style="list-style-type: none"> • Create Table of References |
|--|---------------------|--------------------------------------------------------------------------------|

8. Practice Tools:

| Tool Name | Description |
|--------------------|-------------|
| Visual Studio 2013 | |