

# 53 Course Specification of Irrigation Engineering

	I. Course Identification and General Information:						
1	Course Title:	Irrigation Engineering					
2	Course Code & Number:	CE 312					
			C.	.H		TOTAL	
3	Credit hours:	Th.	Tu.	Pr.	Tr.	IOIAL	
		2	2			3	
4	Study level/ semester at which this	4 <sup>th</sup> Level/2 <sup>nd</sup> semester					
	course is offered:						
5	Pre –requisite (if any):	Fluid mechanics- Hydraulic- Irrigation				gation	
6	Co -requisite (if any):	Hydr	ology				
8	<b>Program</b> (s) in which the course is	Civil Engineering					
	offered:						
9	Language of teaching the course:	English+ Arabic					
10	Location of teaching the course:	Classes and Lecture room					
11	Prepared By:	Ass. Prof. Dr Sharafaddin A. A. Saleh					
12	Date of Approval	Partially in 2014					

# **II.** Course Description:

This course aims to introduce knowledge and skills into the students namely the principles and basics of plant water requirement calculation and design of irrigation systems and irrigation network for the purpose of irrigation and applied design methods for traditional and modern irrigation systems.

Prepared by Head of Department

Dr. Abdulkareem Yahya Al khattabi Quality Assurance Unit Ass. Prof. Dr. Mohammad Algorafi

Dean of the Faculty Prof. Dr. Mohammed AL-Bukhaiti







III	I. Course Intended learning outcomes (CILOs) of the course	Reference PILOs
a.1	Explain the principals and functions of irrigation structures.	A1
a.2	Recognize the principles of design techniques related to Irrigation Engineering subject.	A3
a3	Show the role of the professional engineer in society, including safety, environmental issues, cultural heritage and traditional practices related to Irrigation Engineering subject	A4
b.1	Demonstrate competence in identifying, defining and solving Irrigation systems problems	B1
b.2	Choose appropriate mathematical and computer-based methods for analyzing irrigation systems networks problems	B2
b3	Demonstrate proficiency in the evaluation and integration of information and processes irrigation Engineering subject works.	В3
b4	Consider the economic, social, and environmental issues as well as management in design of irrigation systems networks elements	В4
c.1	Design an irrigation systems networks, component, and process meeting codes, standards.	C2
c.2	Investigate desired needs to solve irrigation systems networks problems.	C2
c.3	Apply engineering techniques, modern tools, and software packages related to irrigation systems networks design and construction practical works.	C3
d.1	Communicate effectively using written, oral and graphical skills to clarify to irrigation systems networks design and construction practical works.	D1
d.2	Work independently and in a team with realization of the importance of leadership of Irrigation Engineering subject group work.	D3
d3	Commit professional and ethical responsibility in conducting work	D4

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(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:					
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies			
<b>a1.</b> Explain the principals and functions of irrigation structures,	Lecture Multimedia Presentations Tutorial, student's participation, Reading, and Assignment	Written Assignment-student Presentations- and short exam (quizzes)			
<b>a2-</b> Recognize the principles of design techniques related to Irrigation Engineering subject.	Lecture Multimedia Presentations Tutorial, student's participation, Reading, and assessment	Written assignment and short exam (quizzes)			
a3- Show the role of the professional engineer in society, including safety, environmental issues, cultural heritage and traditional practices related to Irrigation Engineering subject	Lecture Multimedia Presentations Tutorial Reading Individual projects	Problem set- Written exam- Written assignment- individual and group assignment project- Written short exam			

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:							
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies					
b1- Demonstrate competence in identifying, defining and solving Irrigation systems problems	Lecture Tutorial & Reading Individual project for small group	Problem set – Assignment Participation- Written exam					
b2- Choose appropriate mathematical and computer-based methods for analyzing irrigation systems networks problems	Lecture Tutorial & Reading Individual project for small group	Problem set – Assignment Participation, project and Written exam					

Individual projects

Prepared by

subject

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(quizzes)







b3- Demonstrate proficiency in the evaluation and integration of information and processes irrigation Engineering subject works.	Lecture Tutorial & Reading Individual project for small group	Problem set – Assignment Participation, project and Written exam
b4- Consider the economic, social, and environmental issues as well as management in design of irrigation systems networks elements	Lecture Tutorial & Reading Individual project for small group	Problem set – Assignment Participation, project and Written exam

C Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:						
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies				
c1- Design the irrigation systems networks, component, and process meeting codes,	Lecture Tutorial & Reading Individual project for small group	Problem set – Assignment Participation, project, and Written exam				
<b>c2</b> . Recognize standards desired needs to solve irrigation systems networks problems.	Lecture Tutorial & Reading Individual project for small group	Problem set – Assignment Participation, project, and Written exam				
c.3- Apply engineering techniques, modern tools, and software packages related to irrigation systems networks design and construction practical works.	Lecture Tutorial & Reading Individual project for small group	Problem set – Assignment Participation, project, and Written exam				

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to						
Teaching Strategies and Assessment Strategies:						
Course Intended Learning Outcomes Teaching strategies Assessment Strategies						
<b>d1-</b> Communicate effectively using written, oral and graphical skills to	Lectures for small group Tutorials & Reading	Assignment, Student presentation,				
clarify irrigation systems networks design and construction works	Interactive class Discussion	Participation- Individual				

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	Exercises and homework Problem set – assignment and students' presentation	and group assignment project
d2- Work independently and in a team with realization of the importance of leadership of Irrigation Engineering subject group work.	Lectures for small group Tutorials & Reading Interactive class Discussion Exercises and homework Problem set – assignment and students' presentation	Assignment, Student presentation, Participation- Individual and group assignment project
<b>d3- Commit</b> professional and ethical responsibility in conducting work	Lectures for small group Discussion assignment and student's presentation	Assignment, presentation, Participation and group assignment (project)

IV.	IV. Course Content:							
	A – Theoretical Aspect:							
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours			
1	Introduction for irrigation engineering and irrigation systems and network	a1, a3 ,b2, b3	a1, a3 ,b2, b3  Introduction for irrigation engineering and irrigation systems and network		2			
2	Water soil and plant relation	a1, a2,b1, b2, b3, c1, c2, d1,d2	Water soil and plant relation	1	2			
3	Evapotranspiration and plant water requirements	a1,a2,b1, b2, b3, b4, c1, c2, d1,d2	Evapotranspiration and plant water requirements	1	2			

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8	8 design irrigation networks  b2, b3, b4, c1, c2, d1,d2, design the irrigation system network  Number of Weeks /and Units Per Semester		2 14	<b>28</b>	
	Irrigation project to	a1, ,a2,b1,	Select location and		
7	Environmental Impact Assessment (EIA) for irrigation systems networks "	a1, a2, b1, b2, b3, d1, d2	Environmental Impact Assessment (EIA) for irrigation systems networks "	1	2
6	Modern irrigation methods	a1, a2, ,b1, b2, b3, b4, c2, c3, d1,d2	Sprinkler irrigation and localized irrigation (drip irrigation)	4	8
5	Traditional irrigation methods	a1, a2,b1, b2, b3,b4, c1, c2, d1,d2	Basin irrigation, strip irrigation, and Farrow irrigation	3	6
4	Calculate irrigation water requirements and irrigation scheduling	a1, a2,b1, b2, b3, b4, c1, c2, d1,d2	Calculate irrigation water requirements and irrigation scheduling	1	2

b - 7	b - Tutorial Aspect:					
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes		
1	Assignments to calculate the evapotranspiration	1	2	a1, a3,b1,b2, b3, b4, c1, c2, d1,d2		
2	Assignments to calculate the water requirements and irrigation scheduling	1	2	a1, a3,b1,b2, b3, b4, c1, c2, d1,d2		
3	Assignments to design and applied basin irrigation	1	2	a1, a3,b1,b2, b3, b4, c1, c2, d1,d2		
4	Assignments to design and applied strip irrigation	1	2	a1, a3,b1,b2, b3, b4, c1, c2, d1,d2		
5	Assignments to design and applied farrow irrigation	2	4	a1, a3,b1,b2, b3, b4, c1, c2, d1,d2		
6	Assignments to design and applied sprinkler irrigation	2	4	a1, a3,b1,b2, b3, b4, c1, c2, d1,d2		

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7	Assignments to design and applied drip irrigation	3	6	a1, a3,b1,b2, b3, b4, c1, c2, d1,d2
8	Environmental Impact Assessment (EIA) for irrigation systems networks	1	2	a1, a2, b3, b4, d1, d2
9	Project design and applying suitable irrigation method group work	2	4	a1, a2, a3, b1, b2, b3, b4,
Numbe	er of Weeks /and Units Per Semester	14	28	

# V. Teaching strategies of the course:

Lecture, Tutorial, student's participation, Reading, and assessment, Presentations, Multimedia Presentations, Reading and discussion, Field visit, and small Individual project Lectures for small group, Tutorials & Reading, Interactive class Discussion, Exercises and assignment and students' presentation.

VI.	Assignments:			
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignments to calculate the evapotranspiration	a1, a3,b1,b2,b3,b4, c2, c3, d1,d2	2	1
2	Assignments to calculate the water requirements and irrigation scheduling	a1, a3,b1,b2, b3,b4, c2, c3, d1,d2	3	1
3	Assignments to design and applied basin irrigation	a1, a3,b1,b2, b3,b4, c2, c3, d1,d2	4	1
4	Assignments to design and applied strip irrigation	a1, a3,b1,b2, b3,b4, c2, c3, d1,d2	5	1
5	Assignments to design and applied farrow irrigation	a1, a3,b1,b2, b3,b4, c2, c3, d1,d2	6,7	2
6	Assignments to design and applied sprinkler irrigation	a1, a3,b1,b2, b3,b4, c2, c3, d1,d2	8,9	2
7	Assignments to design and applied drip irrigation	a1, a3,b1,b2, b3,b4, c2, c3, d1,d2	10,11	2
8	Project design and applying suitable irrigation method as group work	a1, a3,b1,b2,b3,b4 c1, c2, d1,d2,d3	12,13, 14	2

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#### University of Sana'a **Faculty of Engineering**









Prepared by Head of Department Dr. Abdulkareem

Yahya Al khattabi

Quality Assurance Unit Ass. Prof. Dr. Mohammad Algorafi

Dean of the Faculty Prof. Dr. Mohammed AL-Bukhaiti



7	VII. Schedule of Assessment Tasks for Students During the Semester:						
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes		
1	Written assignment and quizzes	2 - 11	12	8%	a1,a2,a3,b1,b2,b3,b4,d1,d2		
2	Mid-term exam.	7 <sup>th</sup>	22.5	15%	a1,a2,a3,b1,b2,b3,b4,d1,d2		
3	Practical Exam, reports and attendance	12 <sup>th</sup>	10.5	7%	a1,a2,a3,b1,b2,b3,b4, d1,d2		
4	Final-exam.	15 <sup>th</sup>	105	70%	a1,a2,a3,b1,b2,b3,b4, d1,d2		
	Sum		150	100%			

# **VIII.** Learning Resources:

• Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

#### 1- Required Textbook(s) ( maximum two ).

- ا.د. فاروق عبد الله الفتياني و اخرين ، 2000 "شبكات الري و الصرف " التخطيط و التصميم الهندسي".
   كلية الهندسة جامعة الاسكندرية مصر دتر الراتب الجامعية بيروت لبنان 2000م
   د. طه محمد طاهر 2003، " محاضرات هندسة الري ". جامعة صنعاء كلية الهندسة 2003
- 2- Essential References.
  - ا.د. فاروق عبد الله الفتياني و اخرين ، 2000 "شبكات الري و الصرف " التخطيط و التصميم الهندسي".
     كلية الهندسة جامعة الاسكندرية مصر دتر الراتب الجامعية بيروت لبنان 2000م
    - 2. د. محمد حنفي حسين 2001، "الري اساسيات التصميم". جامعة القاهره كلية الزراعة مصر 2001
  - 3. د. محمد نصر الدين علام (2004)، "مقدمة في هندسة الري والصرف". جامعة القاهره كلية الهندسة مصر 2004
     مصر 2004
    - 4. د. طه محمد طاهر 2003، " محاضرات هندسة الري ". جامعة صنعاء كلية الهندسة 2003

#### 3- Electronic Materials and Web Sites etc.

Prepared by Head of Department Dr. Abdulkareem

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	IX. Course Policies:
1	Class Attendance: The students should have more than 75 % of attendance according to rules and regulations of the faculty.
2	Tardy: The students should respect the timing of attending the lectures. They should attend within 10 minutes from starting of the lecture.
3	Exam Attendance/Punctuality:  The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for mid-term exam and final exam.
4	Assignments & Projects: The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time.
5	Cheating:  If any cheating occurred during the examination, the student is not allowed to continue and he has to face the examination committee for investigation and punishment according to the faculty rules
6	Plagiarism: The student will be terminated from the Faculty, if one student attends the exam on another behalf according to the policy, rules and regulations of the university.
7	Other policies:  - All the teaching materials should be kept out the examination hall.  - The mobile phone is not allowed.  - There should be a respect between the student and his teacher.

Reviewed By	Vice Dean for Academic Affairs and Post Graduate Studies
	Dr. Tarek A. Barakat
	Dr. Mohammad Algorafi
	Deputy Rector for Academic Affairs Dr. Ibrahim AlMutaa
	Dr. Ahmed mujahed
	Dr. Munaser Alsubri

Prepared by Head of Department Dr. Abdulkareem

Dr. Abdulkareem Yahya Al khattabi Quality Assurance Unit Ass. Prof. Dr. Mohammad Algorafi

Dean of the Faculty Prof. Dr. Mohammed AL-Bukhaiti



# **Template for Course Plan (Syllabus)**

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty	Dr. sharafaddin A. A.  Office Hours						
Member	Saleh	Office Hours					
<b>Location&amp; Telephone</b>	+967,777665575	SAT	SUN	MON	TUE	WED	THU
No.	No. College of Eng. SU		SUN	MON	TOE	WED	1110
E-mail	Sharaf1960s@gmail.com	2		2			

	II. Course Identification and General Information:					
1-	Course Title:	Irrigation Engineering				
2-	Course Number & Code:	CE 312				
			(	C.H		Tota
3-	Credit hours:	Th .	Tu.	Pr.	Tr.	l
		2	2			3
4-	Study level/year at which this course is offered:	4 <sup>th</sup> Level /2 <sup>nd</sup> semester				
5-	Pre –requisite (if any):	Fluid Mechanics- Hydraulic- Irrigation				
6-	Co -requisite (if any):	Hydrology				
7-	Program (s) in which the course is offered	Civil Engineering				
8-	Language of teaching the course:	English+ Arabic				
9-	System of Study:	Classes and Lecture room				
10-	Mode of delivery:					
11-	Location of teaching the course:					

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Dean of the Faculty Prof. Dr. Mohammed AL-Bukhaiti



#### **III.** Course Description:

This course aims to introduce knowledge and skills into the students namely the principles and basics of plant water requirement calculation and design of irrigation systems and irrigation network for the purpose of irrigation and applied design methods for traditional and modern irrigation systems.

#### IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to develop:
  - **a.1** Explain the principals and functions of irrigation structures.
  - **a.2** Recognize the principles of design techniques related to Irrigation Engineering subject.
  - **a.3** Show the role of the professional engineer in society, including safety, environmental issues, cultural heritage and traditional practices related to Irrigation Engineering subject A4
  - **b.1** Demonstrate competence in identifying, defining and solving Irrigation systems problems
  - **b.2** Choose appropriate mathematical and computer-based methods for analyzing irrigation systems networks problems
  - **b.3** Demonstrate proficiency in the evaluation and integration of information and processes irrigation Engineering subject works.
  - **b.4** Consider the economic, social, and environmental issues as well as management in design of irrigation systems networks elements
  - **c.1** Design an irrigation systems networks, component, and process meeting codes, standards
  - **c.2** Investigate desired needs to solve irrigation systems networks problems.
  - **c.3** Apply engineering techniques, modern tools, and software packages related to irrigation systems networks design and construction practical works.
  - **d.1** Communicate effectively using written, oral and graphical skills to clarify to irrigation systems networks design and construction practical works.
  - **d.2** Work independently and in a team with realization of the importance of leadership of Irrigation Engineering subject group work.
  - **d.3** Commit to professional and ethical responsibility in conducting work

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# **V.Course Content:**

Distribution of Semester Weekly Plan Of course Topics/Items and Activities.

# **A – Theoretical Aspect:**

Order	Topics List		Week Due	Contact Hours
1	Introduction for irrigation engineering and irrigation systems and network	Introduction for irrigation engineering and irrigation systems and network	1	2
2	Water soil and plant relation	Water soil and plant relation	2	2
3	Evapotranspiration and plant water requirements	Evapotranspiration and plant water requirements	3	2
4	Calculate irrigation water requirements and irrigation scheduling	Calculate irrigation water requirements and irrigation scheduling	4	2
5	Traditional irrigation methods	Basin irrigation, strip irrigation, and Farrow irrigation	5,7	6
6	Midterm Exam		8	2
7	Modern irrigation methods	I localized irrigation (drin		8
8	Environmental Impact Assessment (EIA) for irrigation systems networks "	Environmental Impact Assessment (EIA) for irrigation systems networks "	13	2
9	Irrigation project to design irrigation networks	Select location and design the irrigation system network	14,15	4
10	Final Exam		16	32
	Number of Weeks /and	16	32	

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<b>b</b> - T	b - Tutorial Aspect:				
Order	Topics List	Week Due	Contact Hours		
1	Assignments to calculate the evapotranspiration	1	4		
2	Assignments to calculate the water requirements and irrigation scheduling	2	2		
3	Assignments to design and applied basin irrigation	3	2		
4	Assignments to design and applied strip irrigation	4	2		
5	Assignments to design and applied farrow irrigation	5,6	4		
6	Assignments to design and applied sprinkler irrigation	7,8	4		
7	Assignments to design and applied drip irrigation	9,10,11	6		
8	Environmental Impact Assessment (EIA) for irrigation systems networks	12	2		
9	Project design and applying suitable irrigation method group work	13,14	4		
	Number of Weeks /and Units Per Semester	14	28		

### VI. Teaching strategies of the course:

Lecture, Tutorial, student's participation, Reading, and assessment, Presentations, Multimedia Presentations, Reading and discussion, Field visit, and small Individual project Lectures for small group, Tutorials & Reading, Interactive class Discussion Exercises and assignment and student's presentation.

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Dean of the Faculty Prof. Dr. Mohammed AL-Bukhaiti









VII.	Assignments:			
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignments to calculate the evapotranspiration	a1, a3,b1,b2, c2, c3, d1,d2	2	1
2	Assignments to calculate the water requirements and irrigation scheduling	a1, a3,b1,b2, c2, c3, d1,d2	3	1
3	Assignments to design and applied basin irrigation	a1, a3,b1,b2, c2, c3, d1,d2	4	1
4	Assignments to design and applied strip irrigation	a1, a3,b1,b2, b3, c1, c2, d1,d2	5	1
5	Assignments to design and applied farrow irrigation	a1, a3,b1,b2, b3, c1, c2, d1,d2	6,7	2
6	Assignments to design and applied sprinkler irrigation	a1, a3,b1,b2, b3,c1, c2, d1,d2	8,9	2
7	Assignments to design and applied drip irrigation	a1, a3,b1,b2, b3, c1, c2, d1,d2	10,11	2
8	Project design and applying suitable irrigation method group work	a1, a3,b1,b2,b3,b4 c1, c2, d1,d2,d3	12,13, 14	2

	VII. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes	
1	Written assignment and quizzes	2 - 11	12	8%	a1,a2,a3,b1,b1,b2,d1,d2	
2	Mid-term exam.	7 <sup>th</sup>	22.5	15%	a1,a2,a3,b1,b2,b3,d1,d2	
3	Practical Exam, reports and attendance	12 <sup>th</sup>	10.5	7%	a1,a2,a3,b1,b2,b3,d1,d2	
4	Final-exam.	15 <sup>th</sup>	105	70%	a1,a2,a3,b1,b2,b3,d1,d2	
	Sum		150	100%		

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#### **Learning Resources:** X.

Written in the following order: (Author - Year of publication - Title - Edition - Place of publication – Publisher).

#### 1- Required Textbook(s) (maximum two ).

الكتاب المقرر: محاضرات هندسة الري – اعداد: د. طه محمد طاهر 2003

جزاء من (شبكات الري والصرف " التخطيط والتصميم الهندسي) ا.د. فاروق عبد الله الفتياني واخرين 2006

د. محمد عبد الله نجم + د. خالد بدر (2006)

الرى اساسيات التصميم د. محمد حنفي (1996) الري اساسيات التصميم د. محمد حنفي (1996) مقدمة في هندسة الري والصرف د. محمد نصر الدين علام (2003)

#### 2- Essential References.

الكتاب المقرر: محاضرات هندسة الري – اعداد: د. طه محمد طاهر 2003

جزاء من (شبكات الري والصرف " التخطيط والتصميم الهندسي) ا.د. فاروق عبد الله الفتياني واخرين 2006

#### 3- Electronic Materials and Web Sites etc.



	XI. Course Policies:
1	Class Attendance: The students should have more than 75 % of attendance according to rules and
	regulations of the faculty.
	Tardy:
2	The students should respect the timing of attending the lectures. They should attend within 10 minutes from starting of the lecture.
	Exam Attendance/Punctuality:
3	The student should attend the exam on time. The punctuality should be implemented
	according to rules and regulations of the faculty for mid-term exam and final exam.
	Assignments & Projects:
4	The assignment is given to the students after each chapter, the student has to submit all
	the assignments for checking on time.
	Cheating:
5	If any cheating occurred during the examination, the student is not allowed to continue
	and he has to face the examination committee for investigation and punishment according
	to the faculty rules
	Plagiarism:
6	The student will be terminated from the Faculty, if one student attends the exam on
	another behalf according to the policy, rules and regulations of the university.
	Other policies:
7	- All the teaching materials should be kept out the examination hall.
l ′	- The mobile phone is not allowed.

- There should be a respect between the student and his teacher.