COURSE SPECIFICATIONS Form

Course Title: Fundamentals of nanoscale characterization Course Code: 23066201-2

Date : 2018 – 12 – 28	Institution: Umm Al-Qura University			
College : Al-Jamoum University College	Department: Physics			
A. Course Identification and Gener	al Information			
1. Course title and code: Fundamentals of r	anoscale characterization (23066201-2).			
2. Credit hours: 2 credit hours.				
3. Program(s) in which the course is offered:	Nano physics Program, Al-Jamoum University College.			
(If general elective available in many program	ns indicate this rather than list programs)			
4. Name of faculty member responsible for t	he course:			
5. Level/year at which this course is offered:	3 ^{ed} Level.			
	sperimental techniques I structural characterization			
anv):	3066101-2)			
E	xperimental techniques II spectroscopies (23066103-2)			
7. Co-requisites for this course (if any): -				
8. Location if not on main campus: Al-Jamoum University College.				
9. Mode of Instruction (mark all that apply):				
a. Traditional classroom	✓ percentage? 70%			
h Dianded (traditional and caline)				
b. Blended (traditional and online)	percentage?			
c. E-learning	✓ percentage? 30%			
d. Correspondence	percentage?			
	percentage:			
e. Other:	percentage?			
Comments:				

B. Objectives

1. The main objective of this course

The aim of this course is that the student acquires the basic theoretical concepts that are behind the experimental techniques used to characterize solids and nanostructures. Concepts on elastic and inelastic scattering processes will be developed paying attention to the characteristics of the probes and the theoretical methods that are used to describe the interaction with the targets.

2. Describe briefly any plans for developing and improving the course that are being implemented. (e.g. increased use of the IT or online reference material, changes in content as a result of new research in the field)

In this context, the module focus on the connection of current research activities in nanoscience to their potential technological application.

C. Course Description (Note: General description in the form used in the program's bulletin or handbook)

Course Description:

This module is scheduled for the third term of the first course of the master. The idea is that the student will have acquired the basic knowledges needed to follow this subject in the fundamental subjects that are taught in the first term of the master, such as "fundamentals of quantum mechanics", "classical electrodynamics" and "fundamental of solid state physics". In addition, this module is complementary to the subjects that are also given in this first term of the master "experimental techniques 1" and "experimental techniques 2".

1. Topics	to be Covei	red					1
		List	of Topics			No. of Contact	
			-			Weeks	hours
	U	nd diffraction					
	-	f light with					
Static structure factor and pair distribution function				2	4		
	•	alline solids				2	
	-	f electrons v					
Elastic scattering of neutrons with matter							
Inelastic	scattering.	Dynamic s	tructure fact	or and time cor	relation	1	2
Density-	density res	ponse funct	tion			2	4
Non inter	racting feri	mi gas.				2 4	
The char	ged fermi I	liquid and t	he dielectric	function		2 4	
Random	phase appr	roximation.	Plasmons.				
Green fu	nctions (c	lassical, on	e-body Schi	rödinger equation	on, single-		
particle f	or many b	ody)				2	4
			spectral fur	nction. Broade	ning (line	2	4
width)							
Measurir	ng the	spectral f	unction wi	ith scanning	tunneling		
spectroscopy.			-	2	4		
Two-particle correlation functions (response functions)							
Inelastic electrons tunneling spectroscopy 2		4					
Angle resolved photoemission spectroscopy		Z	4				
Two photon photoemission spectroscopy (2ppe)							
Vibrational spectroscopies: infrared and Raman.			2	4			
X-ray absorption spectroscopy.							
2. Cours	e compon	ents (total	contact and	credit hours p	er semester	·):	
		Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
Contact	Planned	30					30
Hours	Actual	30					30
Credit	Planned	1					2
Cicuit	Actual	1					2
3. Individ	dual study	/learning h	ours expect	ed for students	per week.		

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategies

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and targeted learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy should fit in together with the rest to form an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

# And Course Learning Outcomes Strategies Methods 1.0 Knowledge		Curriculum Map)			
1.0 Knowledge 1.3 The process and mechanisms supporting the structure and function are specific topics. 1.4 Related terminology, numbering and classification systems. 1.6 Knowledge development related to the program. 2.0 Cognitive Skills 2.1 Analyzing, evaluating and interpreting relevant qualitative and quantitative scientific data. Develop the argument and divorce the appropriate concepts. Develop the argument and divorce the appropriate concepts. 3.0 Interpersonal Skills & Responsibility 3.2 Application of techniques and tools related to scientific ethics. 4.0 Communication, Information Technology, Numerical 4.1 Use information and communication technology effectively 4.3 Think independently, assign tasks and solve problems on a scientific basis. 4.5 Taking into account societal problems associated with customs, straditions and ethics. 4.6 Ability to learn self and continuously. 4.7 Apply models, scientific systems and tools effectively. 5. Assessment Task Schedule for Students During the Semester Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.) Week Due Proportion of Total Assessment 1 1st	Code	NQF Learning Domains	Course Teaching Course Assessment			
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D. Student Academic Counseling and Sunnort	6	Final written Examination.	16	40		
		tudent Academic Counseling and Support	,	1		

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic counseling. (include the time teaching staff are expected to be available per week)

Academic advising hours for guidance are included in the faculty member schedule of 4 hours per week.

E. Learning Resources

1. List Required Textbooks

"X-ray diffraction" by b. E. Warren dover publications, 1990.

"Diffraction physics" by j. M. Cowley north-holland physics publishers, 3ed ed (1995).

"Transmission electron microscopy and diffractometry of materials" by b. Fultz and j. M. Howe springer,4th edition (2013).

2. List Essential References Materials (Journals, Reports, etc.)

3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.

4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access, etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Class room for 10 students.

2. Technology resources (AV, data show, Smart Board, software, etc.)

The class room should be equipped with a pc and data-show.

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G. Course Evaluation and Improvement Procedures

1. Strategies for Obtaining Student's Feedback on Effectiveness of Teaching

Questioners.

2. Other Strategies for Evaluation of Teaching by the Instructor or the Department Using course report.

3. Procedures for Teaching Development

Using course report.

4. Procedures for Verifying Standards of Student's Achievement (e.g. check marking by an independent member teaching staff of a sample of student's work, periodic exchange and remarking of tests or a sample of assignments with staff members at another institution)

A random sample of students' assessments is corrected through the committee formed by the department.

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for developing it.

Review stakeholders and conduct periodic questioners.

Name of Course Instructor: ____

Signature: _____ Date Completed: _____

Program Coordinator: ______

Signature:		
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Date Received: _____