

*Republic of Iraq
Ministry of Higher Education &
Scientific Research Supervision
and Scientific Evaluation
Directorate Quality Assurance and
Academic Accreditation
International Accreditation Dept.*

*Academic Program Specification Form For The
Academic*

*University: University of Diyala
College : College of Science
Number Of Departments In
The College : Date Of Form
Completion :*

Dean 's Name

Date : / /

Signature

*Dean 's Assistant
For Scientific
Affairs*

*Date : / /
Signature*

*The College Quality
Assurance And University
Performance Manager*

Date : / /

Signature

*Quality Assurance And University Performance
Manager Date : / /
Signature*

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Program Specification provides a concise summary of the main features of the program and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	College of Science /University of Diyala
2. University Department/Centre	physics
3. Program Title	Ceramic and polymers
4. Title of Final Award	Bachelor
5. Modes of Attendance offered	course
6. Accreditation	
7. Other external influences	
8. Date of production/revision of this specification	1/9/2024
9. Aims of the Program	
1- Urging students to complete the course plan	
2- Commitment to study vocabulary as a curriculum within a time-limited study plan	
3- Updating the vocabulary by the teaching staff to less than 15% annually.	
4- Monitoring the extent of adherence to the study plan	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals

- A1- Understand and comprehend the material in terms of the required (programmed) vocabulary
- A-2- power point
- A-3- Use of the board and pen
- A-4- Preparing explanatory aids
- A-5- Preparing brief reports for some topics

B. The skills goals special to the programme .

- B1 - Skills according to the student's ability
- B2 - high thinking skills
- B3 - Criticism in learning

Teaching and Learning Methods

lecture method
Student group method
Research method and extra-curricular activities

Assessment methods

The method of the semester and final exams.
Homework.
Activity during the lecture.

C. Affective and value goals

- C1- Brainstorming
- C2- Logical analysis of problems and their solution

Teaching and Learning Methods

Theoretical lectures
Research Methods
e-learning

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1 - verbal communication

D 2- Teamwork

D3 - Analysis and application

D 4- Time management

D 5- Planning and Organizing

11. Program Structure

Level/Year	Course or Module Code	Course or Module Title	Credit rating	12. Awards and Credits
The fourth stage		Ceramic and polymers	theoretical	Bachelor Degree Requires (x) credits

13. Personal Development Planning

Constant keenness to follow up what is taught in international universities in order to improve the current curricula and develop it with what keeps pace with global development

Constant keenness to use educational entertainment means to make the student want to learn more and benefit from it

Practicing solutions to exercises a lot to improve the student's abilities

14. Admission criteria .

15. Key sources of information about the programme

Curriculum Skills Map

please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed

[illegible]

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	College of Science / <i>University of Diyala</i>
2. University Department/Centre	physics
3. Course title/code	
4. Modes of Attendance offered	Ceramic and polymers
5. Semester/Year	Semester
6. Number of hours tuition (total)	30 hours
7. Date of production/revision of this specification	1/9/2024
8. Aims of the Course	
1- Urging students to complete the course plan	
2- Commitment to study vocabulary as a curriculum within a time-limited study plan	
3- Updating the vocabulary by the teaching staff to less than 15% annually.	
4- Monitoring the extent of adherence to the study plan	

9. Learning Outcomes, Teaching ,Learning and Assessment Methods

A- Cognitive goals .

. A1- Understand and comprehend the material in terms of the required (programmed) vocabulary

A-2- power point

A-3- Use of the board and pen

A-4- Preparing explanatory aids

A-5- Preparing brief reports for some topics

B. The skills goals special to the course. B1 - Skills according to the student's ability

B2 - high thinking skills

B3 - Criticism in learning

Teaching and Learning Methods

The method of the semester and final exams.

Homework.

Activity during the lecture.

Assessment methods

The method of the semester and final exams.

Homework.

Activity during the lecture.

C. Affective and value goals

C1- Brainstorming

C2- Logical analysis of problems and their solution

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)

D1 - verbal communication

D 2- Teamwork

D3 - Analysis and application

D 4- Time management

D 5- Planning and Organizing

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Ceramics introduction	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
2	2	Ceramics Microstructure	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
3	2	The Main Properties of Ceramics	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
4	2	Mechanical Behavior of Ceramics	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
5	2	Shaping and Forming of ceramics	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
6	2	First exam	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
7	2	Polymer Chemistry	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
8	2	Classification of polymers	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
9	2	Polymerization	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
10	2	Type of polymers	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
11	2	Properties of polymers	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
12	2	Shaping and Forming	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
13	2	Source polymers	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
14	2	Application polymers	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework
15	2	Second exam	Ceramic and polymers	The blackboard and the data show	Monthly and daily exams and homework

11. Infrastructure

1. Books Required reading:	.(ceramic and Glass science) .1 Polymer.-2
2. Main references (sources)	– 1ceramic science for Materials Technologies.
A- Recommended books and references (scientific journals, reports...).	<p style="text-align: center;"><u>References</u></p> <ul style="list-style-type: none"> ❖ Polymer Science – Gowariker V. R., New age International Publishers ❖ Textbook of Polymer Science – Billmeyer F. W, Wiley India Publishers ❖ Advanced Polymer Chemistry – Manas Chanda Marcel Dekker INC.
B-Electronic references, Internet sites...	
12. The development of the curriculum plan	
Familiarity with all that is new and new in teaching and learning strategies. The application of some modern teaching strategies. Update used software annually.	

