

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	University of Diyala- sciences
2. University Department/Centre	Physics
3. Program Title	Practical materials physics
4. Title of Final Award	
5. Modes of Attendance offered	
6. Accreditation	
7. Other external influences	
8. Date of production/revision of this specification	
9. Aims of the Program	
1- Teaching the student the basic principles of physics 2- Preparing specialists in general physics and its practical applications, who are responsible for studying the country's need for development and progress and capable of meeting the needs of the labor market in state institutions and industry sectors. 3- Preparing an educated generation that is armed with science and adopts it as a sound basis for bringing about radical changes and adopts scientific knowledge and the scientific method in thinking, analyzing and adapting to the development of technologies in order to keep pace with the expansion of human needs. 4- Providing an academic climate suitable for study and research, enabling the student to pursue his higher studies and contribute to finding solutions to problems using appropriate and suitable techniques. 5- Active contribution to deepening and strengthening the university's relationship with society through implementing advisory work, training, and developing teaching and administrative staff. 6- Teaching the student the basic principles of physics	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

- A. Cognitive goals
A1- Making the student able to know and understand the basics of physics. A2- Making the student able to know and understand the practical applications of physics. A3- Make the student able to understand physical phenomena from a mathematical point of view. A4- Make the student able to know and understand the basics of physics through the use of modern software

B - Skills objectives of the program:

B1 - Sound scientific research.

B2 - Constructive scientific discussions and expressing opinions.

B3 - Enabling the student to understand and solve scientific problems related to physical laws

B4- The ability to apply the theoretical and practical experience gained from his studies in the areas of practical life, taking into account industrial and commercial constraints.

Teaching and Learning Methods

ϑ- Use the board and dry pen

ϒ- Presenting lectures using Power Point and electronic platforms

ϓ- Use laboratory tools and equipment.

ε- Using practical study methods for students through the practical laboratories available in the department and under the supervision of the academic staff.

Assessment methods

- 1- Follow up on daily attendance
- 2- Conducting daily tests
- 3- Monthly tests
- 4- Final exam

C. Affective and value goals

- 1- Make the student capable of his skills in laboratory group work
- 2- Making the student able to pass job interviews and demonstrate the academic personality required at work
- 3- Make the student able to pass professional and scientific tests organized by local or international bodies
- 4- Making the student capable of self-development after graduation.
- 5- Encouraging faculty members to obtain the highest academic and administrative ranks.
- 6- Continuous improvement and development of faculty members through training programs and workshops.

Teaching and Learning Methods

Assessment methods

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

- 1- The curriculum approved by the Ministry of Higher Education and Scientific Research and its guidelines.
- 2- Decisions and recommendations of the scientific committees in the college and the Physics Department in particular
- 3- Developmental and rehabilitation courses in teaching methods. •
- 4- Internet research for similar experiences. •
- 5- Personal experiences of pioneering professors in the college and department

Teaching and Learning Methods

Assessment Methods

11. Program Structure

Level/Year	Course or Module Code	Course or Module Title	Credit rating

12. Awards and Credits

Bachelor Degree
Requires (x) credits

13. Personal Development Planning

14. Admission criteria .

15. Key sources of information about the programme

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	University of Diyala- sciences
2. University Department/Centre	Physics
3. Course title/code	
4. Modes of Attendance offered	Practical materials physics
5. Semester/Year	Semester
6. Number of hours tuition (total)	
7. Date of production/revision of this specification	17-9-2023
8. Aims of the Course	
1- Teaching the student the basic principles of physics	
2- Preparing specialists in general physics and its practical applications, who are responsible for studying the country's need for development and progress and capable of meeting the needs of the labor market in state institutions and industry sectors.	
3- Preparing an educated generation that is armed with science and adopts it as a sound basis for bringing about radical changes and adopts scientific knowledge and the scientific method in thinking, analyzing and adapting to the development of technologies in order to keep pace with the expansion of human needs.	
4- Providing an academic climate suitable for study and research, enabling the student to pursue his higher studies and contribute to finding solutions to problems using appropriate and suitable techniques.	
5- Active contribution to deepening and strengthening the university's relationship with society through implementing advisory work, training, and developing teaching and administrative staff.	
6- Teaching the student the basic principles of physics	

9. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals .

A1- Make the student able to know and understand the basics of physics

A2- Make the student able to know and understand the practical applications of physics

A3- Make the student able to understand physical phenomena from a mathematical point of view.

A4- Make the student able to know and understand the basics of physics through the use of modern software
Look up details.

B. The skills goals special to the course.
B11 – Sound scientific research.

B2 - Constructive scientific discussions and expressing opinions.

B3 - Enabling the student to understand and solve scientific problems related to physical laws

B4- The ability to apply the theoretical and practical experience gained from his studies in the areas of practical life, taking into account industrial and commercial constraints..

Teaching and Learning Methods

1-Use the board and dry pen

2- Use laboratory tools and equipment.

3- Using practical study methods for students through the practical laboratories available in the department and under the supervision of the academic staff

Assessment methods

1- Follow up on daily attendance

2- Conduct a report for each experiment

3- Monthly tests

4- Final exam

C. Affective and value goals

- C1.
- C2.
- C3.
- C4.

Teaching and Learning Methods

- 1-Use the board and dry pen
- 2- Use laboratory tools and equipment.
- 3- Using practical study methods for students through the practical laboratories available in the department and under the supervision of the academic staff

Assessment methods

- 1- Follow up on daily attendance
- 2- Conduct a report for each experiment
- 3- The monthly period
- 4- Final

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

- Follow up on scientific development by communicating with international universities via the Internet

Participation in scientific conferences inside and outside the country
 Participation in workshops and scientific symposia inside and outside the country

- Identify the most important problems faced by the student in practical laboratories and follow up on their solution via the Internet.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2		Some important laboratory tools and their uses	Conducting the experiment using illustrations and laboratory equipment	
2	2		Viscosity		
3	2		Hooke's Law		
4	2		Surface Tension		
5	2		Studying the effect of water permeability in materials and calculating the value of the diffusion coefficient		
6	2		Specific Heat		
7			Exam		
8	2		Holograms		
9	2		Yonk's coefficient		
10	2		water viscosity		
11	2		Surface Tension		
12	2		Equivalent mass of the spring		
13			Exam		

11. Infrastructure

1. Books Required reading:

Practical physics

2. Main references (sources)	
A- Recommended books and references (scientific journals, reports...).	
B-Electronic references, Internet sites...	

12. The development of the curriculum plan

Assistant Lecturer: Zainab Saad Mahdi

