

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

Academic Program Specification Form For The Academic

University: Middle Technical University
College :Electrical Engineering Technical College
Department : Electrical Power Technical Engineering
Date Of Form Completion : 23-11-2016

Dean ' s Name

Date : / /

Signature

*Dean ' s Assistant For
Scientific Affairs*

Date : / /

Signature

Head of Department

Date : / /

Signature

Quality Assurance And University Performance Manager

Date : / /

Signature

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme 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 programme.

1. Teaching Institution	Electrical and Electronic Technical Engineering
2. University Department/Centre	Electrical Power Technical Engineering
3. Programme Title	Electronics
4. Title of Final Award	BS.c
5. Modes of Attendance offered	Annual
6. Accreditation	
7. Other external influences	
8. Date of production/revision of this specification	
9. Aims of the Programme	
To identify for students all basic electronics circuits and how its design and used, and how we can design special electronics circuits	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding

- PN junction diode and its characteristics.
- Transistors, types, and applications
- Small signals amplifier, and Large signal amplifier
- Power amplifier
- Other semi conductor device (Diac, triac, SCR)
- ADC and DAC

B. Subject-specific skills

- Students can handle and be familiar with IC's in Lab. and observe practice results and compare these results with theoretical results.

Teaching and Learning Methods

- Lecture by white board, with explanations, and discussions
- Use data show for represent power point show, some photos, and films.
- Used soft ware program on PC's "Mulltisim".

Assessment methods

- Discussions between student in side class room.
- Weekly quizzes.
- End of semester exams
- Final exams

C. Thinking Skills

- Encouragement group work specially in Lab. and inside study groups
- Encouragement discussion of different opinion in side class room
- Practice on, and learn use logical thinking to get results.

Teaching and Learning Methods

- White board
- Smart board
- Data show

<ul style="list-style-type: none"> • Soft ware "Multisim"
Assessment methods
<ul style="list-style-type: none"> • Discussions and explanations • Quiz, arrangement exams, monthly and final exams.

D. General and Transferable Skills (other skills relevant to employability and personal development) <ul style="list-style-type: none"> • Logical thinking • Use discussions for insure the right results. • Be open mind for different opinion • Questions culture. 				
Teaching and Learning Methods				
Assessment Methods				
11. Programme Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
second		Electronics	9	
				Bachelor Degree Requires (x) credits

13. Personal Development Planning

Study more of thyristors types, and more details about characteristics of each type.

14. Admission criteria .

I suggest make some of exams, to insure that students is ready for study electrical engineering

15. Key sources of information about the programme

Robert Boylestad, Louis Nashelsky " Electronic Devices and Circuit Theory".

Curriculum Skills Map

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

[illegible]

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
30	6		Semi conductors materials and PN junction diode		
			Diode application		
			Special type of diode		
			BJT's		
			FET's		
			Small signal amplifier		
			Power amplifier		
			thristers		
			Other semi conductor devices		
			ADC & DAC		

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Robert Bolested, Louis Nashelsky " Electronic Devices and Circuit Theory".
Special requirements (include for example workshops, periodicals, IT software, websites)	Robert Bolested, Louis Nashelsky " Electronic Devices and Circuit Theory".
Community-based facilities (include for example, guest Lectures , internship , field studies)	Jimmie J. Cathy" Electronic Device and Circuit"
	Mohammed Harunur Rashid " Power Electronics Circuits, Devices, and Applications'

13. Admissions	
Pre-requisites	
Minimum number of students	30

