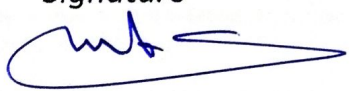



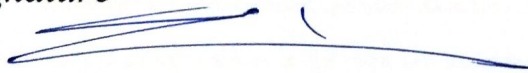
Academic Program Specification Form For The Academic

University: Southern Technical University
College : Basra Technical Institute
Department : Electrical Techniques
Date Of Form Completion :

Dean's Name	Dr. AbdulNasser A. Abboud	Dean's Assistant For	Dr. Muaad Hussein	Head of Department
Date ://		Scientific Affairs	Date :// 7/05/2024	Signature
Signature		Signature		
				

Quality Assurance And University Performance Manager
Date :// 8/5/2024
Signature

تواریخیه الكالف عبود



*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: Southern Technical University
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Date Of Form Completion :*

*Dean 's Name
Date : //*

*Dean 's Assistant For
Scientific Affairs*

*Head of Department
Date : //*

Signature

Signature

*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	Southern Technical University
2. University Department/Centre	Basra Technical Institute
3. Program Title	Electrical Techniques
4. Title of Final Award	<i>Diploma Degree in Electrical Techniques</i>
5. Modes of Attendance offered	Semester System
6. Accreditation	Accreditation Board for and Technology
7. Other external influences	The Department is on going with the development of the curriculum in line with the latest scientific developments in the field of electrical techniques.
8. Date of production/revision of this specification	7/4/2024
9. Aims of the Program	
Understand the basic principles operation of power systems beginning from generation plants to loads	
Ability to analyze power systems in the main and secondary generating plants and to make the necessary measurements and the ability to operate and control the generation plants	
Design, implementation, operation and maintenance of control systems for power systems.	
Ability to analyze power systems in the main and secondary generating plants and to make the necessary measurements and the ability to operate and control the generation plants	
Design the necessary laboratory units for the requirements of graduate students	
The ability to operate and control the generation plants.	
10. Learning Outcomes, Teaching, Learning and Assessment Methods	

A. Knowledge and Understanding

- A1.** Prepare qualified technical staff to work in power generation and transmission stations
- A2.** Prepare qualified technical staff to work in power generation and transmission stations
- A3.** Learn project management techniques
- A4.** Learn about the latest technologies that support the development of electric power plants
- A5.** Prepare qualified technical staff to operate and maintain the electrical and electronic equipment attached to these stations

B. Subject-specific skills

- B1.** Train the students on project management techniques
- B2.** Preparing highly qualified graduates with excellent education that combines deep knowledge and basic skills
- B3.** Graduates excel as technicians and leaders in their profession, and have the potential to pursue lifelong learning, basic research, applied research and public service.

Teaching and Learning Methods

- 1- Use of electronic devices such as SHOW DATA
- 2- Using quizzes for practice and assessment
- 3- A student discussion and home work

Assessment methods

- 1- Classroom assessment
- 2- Daily and weekly test
- 3- Semester exam
- 4- Assessment according student attendance

C. Thinking Skills

- C1. Develop the student's ability to acquire new information by asking questions.
- C2. Stimulate scientific thinking about what is deeper than the given information.
- C3. A comparative study to find out the similarities and differences.
- C4. Stimulating the skill of classifying things into groups according to common characteristics

Teaching and Learning Methods

Laboratories can develop students' thinking skills, intellectual questions and tests. In addition, interaction with other disciplines such as applications of electrical power systems, artificial intelligence, and network security.

Assessment methods

- 1. Theory exam.
- 2. Practical exam
- 3. Writing lab reports and scientific assignment.

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

- D1. Develop the student's ability to design and implement projects.
- D2. Improve team work skills
- D3. Develop the student's ability to analyze and address problems

Teaching and Learning Methods

- 1- Lectures
- 2- Lab work
- 3- New and updated resources
- 4- Use of electronic devices such as SHOW DATA

Assessment Methods

- 1. Theory exam.
- 2. Practical exam
- 3. Writing lab reports and scientific assignment.

11. Program Structure 2023/2024

12. Awards and Credits

Year 1- Semester 1			
Course or Module Title	Credit rating		
	Theory	Lab.	Total
Electrical Circuits/1	4	2	2
Electrical Installation	4	2	2
Principle of Electronics	4	2	2
Computer Fundamentals/1	2	2	-
Mathematics/1	2	-	2
Occupational Safety	2	-	2
Engineering Drawing	3	3	-
English Language/1	2	-	2
Human Rights and Democracy	2	-	2
Workshops	3	3	-
Total	28	14	14

Year 1- Semester 2			
Course or Module Title	Credit rating		
	Theory	Lab.	Total
Electrical Circuits\2	4	2	2
Electrical Installation Applications	4	2	2
Electronic Circuits	4	2	2
Electrical Drawing/1	3	3	-
Mathematics/2	2	-	2
Digital Electronic	4	2	2
Workshops	3	3	-
Total	24	14	10

Year2- Semester 1			
Course or Module Title	Credit rating		
	Total	Lab.	Theory
Industrial Installations	4	2	2
Dc Machines	5	3	2
Power plants and their protection	4	2	2
Fundamentals of Power Electronics	5	3	2
Maintenance Workshop	3	3	-
Computer Fundamentals/2	2	2	-
Electrical Drawing/2	3	3	-
English Language/2	2	-	2
Graduation Project	2	2	-
Total	30	20	10

Year2- Semester 2			
Course or Module Title	Credit rating		
	Theory	Lab.	Total
Industrial installations applications	4	2	2
AC Machines	5	3	2
Power Transmission and Distribution	4	2	2
Power Electronics applications	5	3	2
Maintenance Workshop	3	3	-
Programmable Logic controllers	3	2	1
The crimes of the Baath regime in Iraq	2	-	2
Graduation Project	2	2	-
Total	28	17	11

13. Personal Development Planning

- Scientific and academic research
- Seminars, workshops and conferences
- Training courses

14. Admission criteria .

Centralized admission process

15. Key sources of information about the program

Keeping pace with the labor market

	Workshops	C	v	v	v	v							v	v		v	v	v
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TEMPLATE FOR COURSE SPECIFICATION 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 program specification.

1. Teaching Institution	Southern Technical University- Basra Technical Institute
2. University Department/Centre	Electrical Techniques
3. Course title	Electrical Principles and Technology
4. Modes of Attendance offered	Lecture 2 hours and Lab 2 hours per week
5. Semester/Year	Semester 1& 2 /Year 1
6. Number of hours tuition (total)	120
7. Date of production/revision of this specification	2024/05/7
8. Aims of the Course	
1- Study the basics of electrical	
2- Study the different methods of analyzing electrical circuits	
3- Train students on how connect electrical and electronic circuits	
4- Conducting various measurements of the circuit's variables	

A- Knowledge and Understanding

- A1- Study the basic components of electrical circuits
- A2- Estimate and measure the current, potential difference and electrical power of electrical circuits
- A3- Studying the different types of connection of electrical circuits

B. Subject-specific skills

- B1- Improve the student skills to deal with electrical circuits
- B2- Learn the skills of measuring circuit variables
- B3 - Electronic circuit design training
- B4 - Recognize complex electrical circuits

Teaching and Learning Methods

- Lectures
- Practical experiments
- Preparing reports
- Books and electronic books
- Supportive websites

Assessment methods

- 1- Classroom assessment
- 2- Daily and weekly test
- 3- Semester exam
- 4- Assessment according student attendance

C. Thinking Skills

- C1- Develop the student's ability to do scientific research
- C2 - Develop the student's ability to cooperate
- C3- Develop the student's ability to design electronic circuits
- C4- Motivating the student's ability to address the electronic problems he/she faces

Teaching and Learning Methods

- 1- Lectures
- 2- Lab work
- 3- New and updated resources
- 4- Use of electronic devices such as SHOW DATA

Assessment methods

- 1- Classroom assessment
- 2- Daily and weekly test
- 3- Semester exam
- 4- Assessment according student attendance

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

- D1. Preparing an mindset that can keep pace with rapid technological development
- D2. Preparing
- D3. Training on the skills of completing duties within the specified time
- D4. Develop general skills in dealing with electrical devices and their maintenance

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method

12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	<ul style="list-style-type: none"> • Fundamentals of electrical By B. L. Theraja • Electric circuit Fundamentals, sixth edition by Floid • Introductory Circuit by Boylsted
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions

Pre-requisites	
Minimum number of students	
Maximum number of students	