

## Faculty of Engineering & Technology

### Resource Management

#### Information :

**Course Code :** SCM 581

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** Department of Structural Engineering & Construction Management

#### Instructor Information :

Title	Name	Office hours
Professor	Ibrahim Mahmoud Mahdi Mostafa	
Assistant Lecturer	SARAH SALAH SAYED HUSSEIN ALI ELSHISHTAWY	
Assistant Lecturer	Ahmed Salah Rashad Ahmed Abdelhakk	10

#### Area Of Study :

- At the end of this course, students will be able to:
1. Understand the basic requirements of construction resources
  2. Understand the meaning of resources planning
  3. Understand the different types of construction resources

#### Description :

Resource management, Inventory management, Labor management, Work Study, Construction operation analysis, Simulation

#### Course outcomes :

##### **a.Knowledge and Understanding: :**

- |     |  |
|-----|--|
| 1 - | a1- Students understand the basic elements of construction resources |
| 2 - | a2 - Students can recognize management requirements: techniques and  |

##### **b.Intellectual Skills: :**

- |     |   |
|-----|---|
| 1 - | b1- Planning skills and resource leveling skills                  |
| 2 - | b2- Knowing the organization structures of companies and projects |

##### **c.Professional and Practical Skills: :**

- |     |  |
|-----|--|
| 1 - | c1- Establish cash flows                                     |
| 2 - | c2- Ability to the targets of a successful project           |
| 3 - | c3- Apply knowledge of mathematics, science and engineering. |

##### **d.General and Transferable Skills: :**

- |     |                                    |
|-----|------------------------------------|
| 1 - | d1- Lead and motivate individuals  |
| 2 - | d2- Manage time and meet deadlines |

### **Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to construction and Resource management	4	2	2
Resource elements, Contracts and tenders	12	6	6
Resource leveling and time scheduling	12	6	6
Organization structures	12	6	6
Cash flows	8	4	4

### **Teaching And Learning Methodologies :**

Lecture  
Research  
Class Work

### **Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00		
Mid-term Exam 1	20.00		
Mid-term Exam 2	20.00		
Performance	10.00		
Quizzes	10.00		

### **Course Notes :**

Student Lecture Notes