

**Republic of Iraq**  
**Ministry of Higher**  
**Education and Scientific**  
**Research**  
**Supervision and Scientific**  
**Evaluation Apparatus**



**College: Shatt Al-Arab University**  
**College: Engineering**  
**Department: Civil Engineering**  
**Stage: 3<sup>rd</sup> stage**  
**Subject: Management, Economy**

## **Course Weekly Outline**

| <b>Week No.</b> | <b>Theoretical</b>                                    | <b>Experimental</b> |
|-----------------|-------------------------------------------------------|---------------------|
| <b>1</b>        | General Introduction                                  |                     |
| <b>2</b>        | Project Planning                                      |                     |
| <b>3</b>        | Bar chart (Gantt Chart)                               |                     |
| <b>4</b>        | Network Analysis Technique                            |                     |
| <b>5</b>        | Project Resource Management (Leveling & Scheduling)   |                     |
| <b>6</b>        | Program Evaluation and Review Technique (PERT)        |                     |
| <b>7</b>        | Repetitive Projects Planning by Line of Balance (LOB) |                     |
| <b>8</b>        | Project Selection Process                             |                     |
| <b>9</b>        | Estimation of Construction Cost                       |                     |
| <b>10</b>       | Cash Flow of Project                                  |                     |
| <b>11</b>       | Project Evaluation by Earned Value Management         |                     |
| <b>12</b>       | Reducing Project Duration by Crashing Management      |                     |
| <b>13</b>       | The Basis of construction contracts                   |                     |
| <b>14</b>       | Project Risk Management                               |                     |
| <b>15</b>       | Linear Programming (Operation Research)               |                     |