

3- Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Metal Casting process	12	6	6
Moulding & testing of moulding sand	6	3	3
Pattern making	4	2	2
Melting & pouring, casting defects & its remedy	10	5	5
Joining processes	12	6	6
Fabrication technology	8	4	4
Material structure & properties	8	4	4
Total	60	30	30

4- Teaching and learning methods

- | | |
|---|---|
| <input type="checkbox"/> Information collection | <input type="checkbox"/> Discussions |
| <input type="checkbox"/> Research assignment | <input type="checkbox"/> Field visit |
| <input type="checkbox"/> Lecture | <input type="checkbox"/> Practical training / lab |
| <input type="checkbox"/> Class activities | <input type="checkbox"/> Case study |

5- Student assessment methods

Class attendance and participation
 Homework assignments
 First midterm exam
 Final exam

Assessment schedule

Homework assignments weeks 3, 5, 7, 9, 11
 First midterm exam week 8
 Final exam

Weighting of assessments

Final 40 %
 7th week Exam 30 %
 12th week Exam 20 %
 Class attendance and participation 5 %
 Homework assignments 5 %

6- List of references

6.1 Course notes

6.2 Essential books

- Principle of metal casting
- Metal casting hand book
- Foundry practice
- Material selection hand book

6.3 Recommended books

7- Facilities required for teaching and learning

Computer Lab
 Data Show
 Overhead Projector

Course Coordinator: Prof. Dr. Dr. Ibrahim Mousa

Program Coordinator: Prof. Dr. Attia H. Gomaa

General Supervisor & Vice Dean: Prof. Dr. Abdalh Saad

Date: 01 / 06 / 2010