

**Modified E2 (R13) Curriculum for Dept. of Metallurgical and
Materials Engineering (RKV Campus)**

E1 Sem1

Name of the Course	Credits
Engineering Mechanics	4
Engineering Chemistry	4
Workshop	3
Partial Differential Equations	4
Engineering Physics	4
Engineering Chemistry Lab	2
Engineering Physics Lab	2
Total Credits	23

E1 Sem2

Name of the Course	Credits
Mineral Processing	4
Metallurgical Thermodynamics	4
Physical Metallurgy	4
Engineering Drawing	3
Basic Electrical Engineering	4
Mineral Processing Lab	2
Physical Metallurgy Lab	2
Basic Electrical Engineering Lab	2
Total Credits	25

E1 Summer Sem

Name of the Course	Credits
Advaced English	2
Soft skills	2
Total Credits	4

E2 Sem1

Name of the Course	Credits
Phase transformation and Heat treatment	4
Mechanical Metallurgy	4
Transport phenomenona in Metallurgical process	4
Iron Making	4
Engineering Mathematics	4
Phase transformation and Heat treatment Lab	2
Mechanical Metallurgy Lab	2
Total Credits	24

E2 Sem2

Name of the Course	Credits
Steel Making	4
Foundry Technology	4
Non Destructive Techniques	4
Metal Joining Technologies	4

Non Ferrous Extractive Metallurgy	4
Foundry Technology Lab	2
Advanced English Lab-I	2
Non Destructive Techniques Lab	2
Total Credits	26
E2 Summer Sem	
Name of the Course	Credits
Materials Characterization Techniques	4
Materials Characterization Techniques Lab	2
Total Credits	6
E3 Sem1	
Name of the Course	Credits
Elective	4
Elective	4
Elective + Lab	6
Free Elective	4
Mini Project	4
Total Credits	22
E3 Sem2	
Name of the Course	Credits
Elective	4
Elective + Lab	6
Elective	4
Free Elective	4
Mini Project	4
Total Credits	22
E3 Summer Sem	
Name of the Course	Credits
Summer Internship	4
Total Credits	4
E4 Sem1	
Name of the Course	Credits
Elective	4
Elective	4
Free Elective	4
Project	6
Total Credits	18
E4 Sem2	
Name of the Course	Credits
Elective	4
Elective	4
Free Elective	4
Project	6
Community Service	2

Total Credits	20
Grand Total Credits	194

Engineering Polymers (Compulsory in E3S1)	4
Metal Forming Technology (Compulsory in E3S1)	4
Corrosion and environmental degradation of materials (Compulsory in E3S1)	6

Introduction to Ceramic Technology (Compulsory in E3S2)	4
C & Data Structure + Lab (Compulsory in E3S2)	6

Fuel, Furnace and Refractories (Compulsory in E4S1)	4
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