

## SMM5774 – Estrutura e Propriedades de Materiais Metálicos

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### Cronograma

Dia	Capítulos	Obs.:
09/03	1. The structure of metals	
16/03	4. Introduction to dislocations	
23/03	<i>Recesso, não há aula</i>	
30/03	5. Dislocations and plastic deformation	
06/04	6. Elements of grains boundaries; 7. Vacancies	
13/04	8. Annealing; 9. Solid Solutions	
20/04	10. Phases ( <i>fim do conteúdo para P1</i> )	
27/04	11. Binary phase diagrams	
04/05	<b>Prova 1</b>	
11/05	12. Diffusion in substitutional solid solutions; 13. Interstitial diffusion	
18/05	14. Solidification of metals	
25/05	15. Nucleation and growth kinetics	
01/06	16. Precipitation hardening	
08/06	17. Deformation twinning and martensite reactions	
15/06	<b>Prova 2</b>	
22/06	<b>Prova substitutiva</b>	

### Bibliografia

Reza Abbaschian, Lara Abbaschian, Robert E. Reed-Hill - Physical Metallurgy Principles, 4<sup>a</sup> ed., Cengage Learning, 2009.