

NIRMA UNIVERSITY
Industrial Design Programme
Bachelor of Design, Department of Design
Year II, Semester III

L	T	P	C
		4.5	3

Course Code	DSK218
Course Title	Materials & Processes I - Metal & Wood
Credits	3
Teaching hours:	67.5 hours

Course Learning Outcomes (CLO):

At the end of the course the student will be able to:

1. Create objects using techniques of ‘casting, shaping and turning’ metal
2. Make objects using advanced techniques for shaping natural and synthesized wood
3. Make a ‘master’ form for casting and/or make a mould

Syllabus:

The course would focus on advanced explorations in wood and metal:

- Visits to various fabrication & production workshops producing sections, components, furniture, objects
- Workshop based assignments to use various techniques observed, to make forms

Suggested Reading:

1. *Materials for Design*, Chris Lefteri
2. *Metal Techniques for Craftsmen: A Basic Manual on the Methods of Forming and Decorating Metals*, Oppi Untracht
3. *Complete Metalsmith*, Tim McCreight,
4. *Creative Metal Forming*, Betty Helen Longhi, Cynthia Eid
5. *Understanding Wood: A Craftsman's Guide to Wood Technology*, R. Bruce Hoadley
6. *What wood is that? : A manual of wood identification*, Herbert Leeson Edlin
7. *Identifying Wood: Accurate Results With Simple Tools*, R. Bruce Hoadley
8. *Wood: Identification and Use*, Terry Potter

w.e.f. Academic year _2018 and onwards

Key: L= Lecture, T= Tutorial, P= Practical, C= Credit