



Bhartiya Skill Development University

Syllabus for Ph.D. Entrance Test

Woodworking

1. Material types and their properties, furniture concepts and material tests, metal, non-metal and wood technologies, manufacturing processes and its quality control, concepts of quality management systems, Risk and safety in manufacturing.
2. Hand and digital craft design, computer aided design tools, 3D computer modelling, strength and stress considerations in design, product design and development, product management, cost estimation.
3. Machine tools used in furniture making, its operation and maintenance. Advances in production technology for furniture making.
4. Concepts of design, beauty and style, Colour schemes, light schemes, patterns, surfaces and fabrics. Concepts of living spaces: living rooms, halls, kitchen, office spaces, bed rooms etc. Fixtures, fittings and utilities, human factors in design. Aspects of ergonomics and aesthetics.

References

1. Alvin R. Tilley, Henry Dreyfuss Associates, (2002), The Measure of Man and Woman : Human Factors in Design : Wiley publications 2001, ISBN-13: 978-0471099550
2. Postell, J. (2012). Furniture Design. New Jersey: John Wiley & Sons, Inc. ISBN 9781118090787
3. Savage, D. (2011). Furniture with Soul: Master Woodworkers and their Craft. Kodansha USA. ISBN 4770031211
4. Mark Duginske (1992), Mastering Woodworking Machines: Taunton press, ISBN-13: 978-0942391985
5. Stuart Lawson (2013), Furniture Design: Introduction to Development Materials and Manufacturing: Laurence King Publishing, ISBN: 9781780671208
6. Ulrich Bachmann (2011), Colour and Light: Materials for a Theory of Colour and Light, Niggli Sulzen Switzerland, ISBN: 9783721207798
7. Nancy R Tague (2013), The Quality Toolbox, ASQ Quality Press, ISBN: 978-0-87389-871-3