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| **Higher Product Design** | |  |  |
|  |  |  |  |
| **Topic** | **Covered in class**  **** | **Revised for Prelim**  **** | **Revised for exam**  **** |
| **Design Analysis & Evaluation** | | |  |
| Design Factors (Function, Ergonomics etc) |  |  |  |
| Evaluation Techniques |  |  |  |
| **Materials and Manufacture** | | |  |
| Plastics (thermoplastics and thermosetting plastics) |  |  |  |
| Metals (ferrous and non-ferrous) |  |  |  |
| Woods (natural timber and man-made boards) |  |  |  |
| Plastic Processes |  |  |  |
| Metal Processes |  |  |  |
| Wood Processes (CAD CAM, Spindle Moulding etc) |  |  |  |
| Assembly Methods – Plastic |  |  |  |
| Assembly Methods – Metal |  |  |  |
| Assembly Methods – Wood |  |  |  |
| Finishes in wood and metal |  |  |  |
| Flat Pack Furniture |  |  |  |
| Composite Materials |  |  |  |
| Production Systems (Just In Time etc) |  |  |  |
| Production Planning (Gantt charts etc) |  |  |  |
| **Developing Design Proposals** | | |  |
| Idea Generation Techniques |  |  |  |
| Modelling Techniques |  |  |  |
| Rapid Prototyping |  |  |  |
| Intellectual Property Rights |  |  |  |
| The Design Team (Designer, Engineer, etc) |  |  |  |
| Types of Designers |  |  |  |
| Graphic Techniques |  |  |  |
| Obsolescence |  |  |  |
| Technology Advance |  |  |  |
| **Section A of Exam** |  |  |  |