

ARCHITECTURE GRAPHICS

Prepared by :

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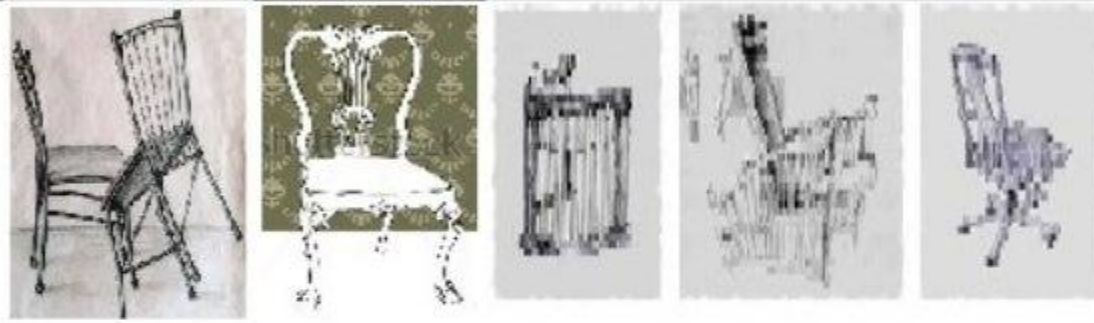
3.3 Selection of three or four design elements, shape, ornaments, motif and decoration from their own favorite style. Examples as below



3.4 Free hand sketching of selected chair and latter on converting same design on AutoCAD 2-D and 3-D representation that communicates an understanding of the principles and elements of design. Students can go on line to view the resources on the subject for better understanding.

3.5 Once the above activity is complete then student will take task of Modification/Redesigning of selected chair (Selected chair may be a Dining Chair, Study Chair, Bedroom Chair, Recline Chair, Reception visitor chair * by using selected design elements as explained in Para-3 .3) **Annex-A-3**

3.6 Sketch exercise



- 3.7 Selection of final sketches for development movement
- 3.8 Auto cad drawings 2-d & 3-D (Example detail available at [Annex-B & B1](#))
- 3.9 Selection of Raw material and finalizing of specification.
- 3.10 Initial presentation drawings for final approval.(AutoCad & Photoshop-[Annex-B,B-1,F](#))
- 3.11 Production/Manufacturing drawings.(Example available at [Annex-C](#))
- 3.12 Cutting and Hardwarelist (Example and pattern available at [Annex-D](#))
- 3.13 Cost calculation (Example and pattern available at [Annex-E](#))
- 3.14 Manufacturing of final design.
- 3.15 Final presentation along with finished product.([Annex-F-1](#))

4-DESIGN OBJECTIVES

- 4.1 FUNCTION-HOW AND WHERE WILL THIS CHAIR BE USED
- 4.2 PROPORTION-WHAT SIZE WILL MAKE IT PERFECT
- 4.3 CUSTOMIZE-WHO WILL USE IT
- 4.4 LOCATION-WHERE IT WILL BE PLACED
- 4.5 STYLE-WHAT SHOULD IT LOOK LIKE

5-DESIGN SEQUENCE

- 5.1 FIRST STUDY FURNITURE DESIGN DEVELOPMENT (FURNITURE TIME LINE) AS EXPLAINED IN PARA 3.1
- 5.2 SELECT A CHAIR OF OWN CHOICE FROM A STYLE.
- 5.3 CREAT CONCEPT SKETCHES (USE EACH SUCCESSIVE SKETCH AS A BASIS FOR NEW IDEA OR EXTRACT AN ELEMENT OF SKETCH TO BE ADDED TO DESIGN)
- 5.4 CREATE A ROUGH DRAWING OF DESIGN FROM THE SKETCH WITH THE MAJOR PROPORTIONS, SCALE AND ELEMENT OF THE DESIGN DESCRIBED.



	<p>5.5 DESIGN CONCEPT</p> <p>5.6 SKECTCHES FOR THE DEVELOPMENT OF PRODUCT</p> <p>5.7 PRESENTATION CONCEPT</p>
<p>6-TECH-SEQUENCE</p>	<p>6.1 AutoCAD DRAWINGS 2D & 3D</p> <p>6.2 MANUFACTURING DRAWINGS</p> <p>6.3 CUTTING/MATERIAL LIST</p> <p>6.4 HARDWARE LIST</p> <p>6.5 COST CALCULATION</p> <p>6.7 ARRANGMENT OF MATERIAL.</p> <p>6.8 PRODUCTION PLANNING SEQUENCE</p> <p>6.8 PRODUCTION</p>
<p>7-DESIGN CONSIDERATION</p>	<p>7.1 STYLE</p> <p>7.2 SIZE OF PRODUCT</p> <p>7.3 FUNCTION</p> <p>7.4 APPERANCE</p> <p>7.5 SHAPE</p> <p>7.6 ERGONOMICS</p> <p>7.7 MATERIALS</p> <p>7.8 SAFTY</p> <p>7.9 FINISH</p> <p>7.10 COST</p>



<p>8-DESIGN INVESTIGATION</p>	<p>8.1 Investigation leads to a clear understanding of the limits of the design problems. First, all concerned are advised to read and understand the key words of the project brief. In this assignment project key is</p> <p>8.1.1 STUDY FURNITURE STYLE DEVELOPMENT (Para-2.1/Annex-A,A-1 &A-2 AND SELECTION OF A CHAIR FROM FURNITURE TIME LINE</p> <p>8.1.2 SELECTION OF THREE OR FOUR DESIGN ELEMENTS, SHAPES, ORNAMENTS, MOTIF AND DECORATION FOM YOUR FAVORITE STYLE.</p> <p>8.1.3 MODIFICATION/REDESIGNING OF SELECTED CHAIR (Annex-A-3)</p> <p>Note here key point is “Redesigning and modification of selected chair from period style”</p>
<p>9-JOINERY</p>	<p>9.1 CREATE STRONG JOINTS WHICH ARE HIDDEN WITHIN FAÇADE OF FURNITURE KEEP YOUR DESIGN STRAIGHTFORWARD</p> <p>9.3 USE MINIMUM PARTS.</p> <p>9.4 Use of nail in wooden finished structure is not allowed, use screw where ever required.</p>
<p>10-SPECIFICATION</p>	<p>10.1 FINALIZE YOUR PRODUCT SPECIFICATION IN ACCORDENCE WITH THE STYLE AND DESIGN.</p>
<p>11-MANUFACTURING PROCESS</p>	<p>11.1 STUDENT MUST BE AWARE OF COMPLETE MANUFACTURING PROCESS WHICH REQUIRES TO COMPLETE THE PRODUCT MANUFACTURING.Annex-G</p>
<p>12-Manufacturing facility</p>	<p>12.1 WITH THE HELP OF COURSE LEADER STUDENT MAY USE THE MANUFACTURING FACILITY</p> <p>1- INSIDE THE UNIVERSITY</p> <p>2- OUT SIDE THE UNIVERSITY</p>
<p>13-SUGGESTED MATERIALS.</p>	<p>13.1 SOLID WOOD,PLYWOOD,BENDED PLYWOOD,HIGH DENSITY POLYUROTHENE FOAM,FABRIC,LEATHER,DECORATIVE METAL PART,DECORATIVE PLASTIC PARTS,NC OR ACRALIC PAINT FOR FINISHING,WHITE GLUE FOR WOOD JOINTS ETC,ETC.</p>
<p>14-METHOD OF ASSESMENT</p>	<p>14.1 Evaluation of the project will be based on the functionality, originality and quality of the design. The project will be assessed on whether the students used their knowledge of design principals and function of chair to create a design that satisfies all given requirements.</p>



1-ATTACHMENTS

- ANNEX-A FURNITURE STYLE DEVELOPMENT(TIME LINE)
http://www.slideshare.net/jik_1959/furniture-styles-development-timeline
- ANNEX-A-1 Furniture-by-charles-rennie-mackintosh
http://www.slideshare.net/jik_1959/furniture-by-charles-rennie-mackintosh-2012
- ANNEX-2 FURNITURE STYLE GUIDE
http://www.slideshare.net/jik_1959/furniture-style-guid
- ANNEX-2A MODIFIED/REDESIGNED CHAIR EXAMPLE
http://www.slideshare.net/jik_1959/modified-chairs
- ANNEX-B AUTO CAD CONCEPTUAL SKETCHES
http://www.slideshare.net/jik_1959/auto-cad-conceptual-drawings
- ANNEX-B1 AutoCAD 2D DRAWINGS
http://www.slideshare.net/jik_1959/auto-cad-2d-drawing-21578257
- ANNEX-C PRODUCTION/MANUFACTURING DRAWING
http://www.slideshare.net/jik_1959/furniture-manufacturing-drawings-dining-chair-21580400
- ANNEX-D CUTTING & HARDWARE LIST EXAMPLE
http://www.slideshare.net/jik_1959/furniture-cost-calculation
- ANNEX-E COST CALCULATION EXAMPLE
http://www.slideshare.net/jik_1959/furniture-cost-calculation
- ANNEX-F PHOTOSHOP PRESENTATION
http://www.slideshare.net/jik_1959/photoshop-presentation-21588392
- ANNEX-F1 PRESENTATION WITH BACKGROUND
http://www.slideshare.net/jik_1959/presentation-with-complete-background
- ANNEX-G PRODUCTION SEQUENCE FOR A CHAIR
http://www.slideshare.net/jik_1959/cahir-manufacturing-process

Note:- Pl. click on the link to download the file.

2-COURSE LEADER BACKGROUND



- FURNITURE DESIGN & MANUFACTURING BACKGROUND .

3-TEACHER REQUIRMENT

- HISTORY TEACHER FOR THE TRANSFER OF KNOWLEDGE OF “FURNITURE DESIGN DEVELOPMENT (TIME LINE)
- AUTO-CAD INSTRUCTOR
- PHOTOSHOP INSTRUCTOR
- WOODWORK INSTRUCTOR
- REPORT WRITING TEACHER

4-STUDENT PRIOR KNOWLEDGE

- COMPLETE KNOWLEDGE OF DESIGN PRINCIPLE AND ELEMENTS, AUTOICAD, PHOTOSHOP AND WOOD JOINERY.

5-ASSIGNMENT

- TEACHER MAY DEVIDE CLASS IN GROUPS OR ASSIGN PROJECT TO INDIVIDUAL STUDENT.

6-JIK-KHAWAJA IN PUT

- PROJECT DETAILS ARE AVAIABALE ON FACEBOOK PAGE “ **FURNITURE DESIGN GROUP (PIFD)** ”
- ALL STUDENTS ARE REQUIRED TO BECOME MEMBER OF GIVEN PAGE.
- ALL STUDENTS WILL UP-LOAD THEIR WORK ON THE GIVEN SITE AS PER THE DETAIL AND SEQUENCE GIVEN IN LESSON PLANN FOR THE INPUT OF JI-KHAWAJA
- REGARDING THE PROJECT DISCUSSION WILL BE ON THE SAME SITE.



ANNEXTURES ATTACHED.

- LESSON PLAN DETAIL PAGE-1 to 8