

B. ARCHITECTURE
INTERIOR DESIGN (AR6005)
COMPONENTS OF THE INTERIOR SPACE –
FURNITURE
Lecture - 7

Introduction to Interior Furniture:

So introduction to be introduced as John. F. Pile says

“Furniture is with its close contact to human occupants of interiors, establishes an important role in the concerns of the discipline known as human factors.”

So furniture is one element which gets very close contact to the humans for using the space. If we use the study table in the study space I have my book shelf, I have my pedestal unit, my overall setting with storages for files etc., so all these are elements which interact on a day-to-day basis in that particular space. So depending upon whichever space it is the furniture has very close contact with the humans who are the occupants in that space and interact very much with the furniture which is in that space.

So this becomes the most important element as per the function of the spaces concern. For example in a residential use the furniture would start from the saying the – for storing the essential items your book shelf, your shoe racks, your curio unit, your TV mounting furniture, your sofa, your coffee tables, side tables, display units, crockery unit which will mount all your tottery and crockery unit, the dining table itself, the chairs for the dining table, puja unit where either it is the Hindu house or the Muslims house depending upon the what kind of the religious background come from you need the furniture which is placed in the worship space, your modular kitchen itself it is the huge furniture unit, apart from the equipment talking of the wood work alone, in your bed room you need probably a study table in your bed room or your book shelf in your bed room or a wardrobe space with clothes in the

other accessories all these are the part of the furniture itself and it is a loft space and in access built-in furniture, your vanity counters in the bath rooms there also be the part of the furniture, savor cubical, so anything which you having your, anything which is using the aesthetics are most of the times these are functional elements in your interiors and when function is the criteria which will looking at the interior space and the furniture is the most important element in your home.

So, that's what need for furniture with an exception of certain monumental spaces, such as lobbies, circulation spaces, and ceremonial interiors, almost all interiors spaces require furniture that is what we discussing about in a very elementary residents space we are talking about these elements which is furniture being used, at the same time we got other spaces like your universities or your class rooms, starting from the desks to storage spaces, your podium and your presenting furniture and your mounting furniture all these are the elements of if we talking about the director room or your MD's room the table, side table of your MD's or your book shelf in your MD's room or in the office space, the wall mounted space furniture or floor mounted furniture all these are elements which can be required this can go endless can talking about the different type of typologies building and the interior furniture which is used.

So the furniture is the most important is the functional element to interior. We use chairs, tables, and the desks for working. Chairs and tables for dining. Chairs and sofas for conversation and watching television, etc., any elementary is the residential use all these furniture for daily bases any one of its use it. The image shows the three plus three sofa seated with the coffee table, TV mounted unit all these and a book shelf with integrated book shelf one of the walls so all these furniture you can see this on daily everywhere,

How does it start? How do you know, how much furniture you need? Where you need? Which furniture, how do you plan?

The amount of furniture number of chairs we required and the size of this furniture, how do you plan it? Starts with the primary furniture and decision some made with layouts.

Primary Furniture Decisions:

In the typical design project, planning takes place the before furniture selection is considered. One plans with function in mind and indicates

furniture is a generated way, using average sizes and forms to designate desk, table, chairs, sofa, bed and so on. So what it means is if I am giving a rectangular space of the living room and I am asked to create living area of effect and interior space for the effect and I need to know how many users are going to use the space, what is the maximum quantity which I need to keep number of furniture I need.

How many people should accommodate in that though I starting from that I understand how many pieces of furniture I required? and then I go back to the drawing board, make a layout for it and then come out in the options. Here are four, we know very interesting options are shown in the screen, a living room, the first options shows three sitters sofa is one plus one plus sitter and single seated sofa and a fire place which is placed on opposite wall which is necessitate and functional event. Two chairs are on either side of the fire place stitches on it and couple of stool and either side of each chairs.

So the couple of windows two entry points to the room there is a chest of draws and couple of stool on either side. There is a option and one you can see the circulation in around the furniture which is very clear. That clears space for walking around and the functional discussion is one side of the room. The second option here shows circulation between those two doors is very clear. The basically that's behind the sofa. Here we can see three plus three seated sofa can accommodate around eight people comfortably then this setting and the spaces still seated as one chest of the windows actually the space before the other windows are three seated sofa.

When comes to the third arrangement here there is an L shaped arrangement, the couple of coffee table which means the spaces itself divided into two interaction zones at the same time the circulation between the two doors is very clear. This is another arrangement where you requirements of furniture would mean two to three seated and then five sitters sofa which is arranged around in that circulation space and the discussion areas and a couple of two coffee tables, one is the circular coffee table and then other is elliptical coffee table and or a rectangular table and a small console table in an end near the window.

So a same space depending upon the arrangement on the how the furniture are arranged the overall setting itself is different and the quantity of furniture is determined in this stage. Here you get an amount of people who can interact in the space total number of sitters which is required total

number of furniture is required and the type A being a three seated sofa and type B is single seated sofa type C are sharing we need chairs type A or type 2 of type 3. So, this is how a primary decision of number of furniture is actually determined. Then gets into different ways of making furniture can either be built-in furniture or modular furniture.

What is the difference? What is the built-in furniture and modular furniture?

Built-in furniture something which is built-in how the name built-in is simply suggested and when you planning the architect of space furniture itself or you create the furniture as the part of the architecture are the interiors itself not a standalone item. It's not bought out of the shop. It is made as the component in a interior itself.

So if you look out the book shelf which have been placed in here there is a mesh which is create the wall on the either sides has been built out and this furnish furniture's being created and that the different levels of slab is integrated in the planning stage itself it's the part of the overall plan. So this planning needs done very early in stage doing the design when compared to the book shelf which is part of the bought off the shelf or the bought out of the shop and then placed in one of the corners.

The advantages of doing this's you efficiently get the space there is a very minimal space wastage and the difference between buying the book shelf putting it one of the corners and this is here that there is no way that any amount of small space which is wasted behind the book shelf or around the book shelf which is placed one of the corners or it accumulate very less dust seemed to maintain. Disadvantage would be on the other hand it is not the movable it is not as it is when you are if not it is not the permanent space if you have to move out of the space after sometimes then these piece of furniture is not able to movable it has remain where it is so one good thing efficiently uses built-in furniture is not a immovable this furniture impose constrain the planning stage itself must be considered well before in hand. While modular furniture so if you rented the space or you not on the long term occupancy in the space then,

What you do? When you buying the furniture you make its sure it is movable and it is mobile it can be taken to any other space and be used as the efficient and as it is now in spaced in this space itself.

So basically modular furniture rented spaces or even long-term occupancies in not certain for any reason then movable furniture has the advantages on been readily transportable to the new location. A very funky example has been shown in the image on your right. On the three boxes, as the three boxes is open up one of the box is open up into your bed and your book shelf on either sides and the second box opens into your study table and third box opens upon the small pantry.

So technically these boxes can be squeezed in and then taken into any common location any hall can be used as the piece of furniture and so it is the very mobile piece of furniture can be used anywhere so this is the advantages of the modular furniture when comes to built-in furniture. But it's again more durable or it is less durable this is movable that is not movable that is the advantages and disadvantages. Prowse and concepts between built-in and modular furniture. There is lots of example wants to be make which makes lives for us.

Systems furniture:

Systems generally developed largely for office use consists of elements linked together in clusters. This is one of the award winning cluster furniture system furniture basically this is the triangular module which is shown as the central partition between in three tables can be connected in different forms these clusters can be made into thousands of clusters the very simple form can be added or multiplied to create very interesting clusters together. So this is used in very large office setup where the furniture arrangement is been.

Reusing furniture:

In residential design, it is probably more common reuse at least some existing furniture. The designer must create inventories to measure up furniture that needs to be used in the new design. So basically how does it come up? Any designer would come up with the situation would encounter the situation like this with the client. You may have the client who comes to up the and say

"I have my antique piece which is my owned by my great grandfather it is made of teak, it is lost for two generations and wants to keep that as part of that art work in my office work or piece of art or as antique piece in my office or in my bed room".

So what you do? Or it can be very antique bed, or a wall clock or a floor mounted clock which is an antique piece of furniture which is being save for generations kept together and then wanted to be used in a new interior space designing, how do you do this ? You Take clear measurements of photographs and make sure that whatever makes creating around that is jelling with that particular furniture piece of itself.

So in certain situations it can be a cross cutting you also the client might have a new bed and you need not have a newly designed bed for that space because already has one. So this is how you encounter this the scenario is shows the image, a antique piece of a table, pantry table, where storage shelf's and then work tops and all of that integrated. So this can be one of the whole pieces that need to be used your newly designed interiors.

Layout and planning:

Layout planning is most important planning s the part of, as I told you this is thefirst step and gettingyours client approval on layout actually solves the lot issue and then allows you to improves on your base design layout prose andso any typical design project interior design go through it at least your four different layout options which needs to be discussed with that client.

So what is the layout? Arranging the furniture in plan is a vital part of interior design work. It is rather the first thing any designer has to work on. Many designers choose to make plan layouts on the basis of square-foot areas assigned to various functions, into which the furniture is it. That one of the diagram shows one of the very randomly placed furniture layout for an open office.

So here again I told you that number of furniture, number of seated, efficient newsier, efficient in circulation, private zones, semi-private zonesand open areas and circulation areas, interaction areas, occasional areas all these can be planned just by placing the furniturein the layout it has to be, so that is the first step and getting the client's approval on that actually demands on that for lot of attention in design and after during this stage all the modular furniture has to be planned and before stage during the architectural layout all itself your fitted furniture has to be planned.

So these is the sequence of planning first step it is a furniture or a immovable furniture planning has to be done for that and then your layout and your modular layout furniture movable furniture has to be planned.

Selecting furniture:

Selecting furniture once your furniture layout is ok, your client is happy with the furniture layout and then, you get into the stage of selecting the furniture for that particular use.

So how do you select your furniture? With a basic plan of interior space completed. A furniture selection begins, and the furniture for a project can be custom designed or purchased readymade, from shops. Specially designed furniture,

What are the advantages of specially designed furniture?

It designed efficient usage of space and it is more expansive and worth it and control of quality, you have control over the quality of the item its time consuming, but time must be fitted for that furniture, it can be hand crafted to suit usage to suit your sets.

So this is a stage were start selecting your furniture for that space. When you designed a customs designs space most of the furniture space also made customs designs you may want very inter-gratify craved and teak piece or in your dining table in the living room, living dinning space. So that particular piece furniture can either be bought in shop or either bought in shop or in custom designed.

Custom designed made side on it'sone piece and it is not available anywhere else it's totally customized you and that you will not see that and that kind of piece anywhere else. But if you choose it buying it from the shop, there is a very high possibility is hundreds of pieces has been reproduced and these parts to the world and the same factory exported to different part of the world, or you may so end of the using the same which is already existing is being copying it from somewhere else and that is the difference between custom designed furniture and furniture which is bought out from a space but, having said that customs design is very expansive it is depending upon the inter graced wall involves a lot of time which is spent to make the furniture itself.

So any interior design space of around three thousand square feet complectively withthe customized furniture can take around a year to interiors along after designing. But at the same time the modular furniture the advantage would be the same three thousandsquare feet's space can be

collectively the time line to completing the years can be around the month which means ten times less than, ten times which is spend to making your customized furniture.

Readymade Furniture:

Most selections would be made from furniture in regular production. So hundreds and thousands of furniture pieces have been is being manufactured in the factory either in one of those manufacturing companies which are located countries like china, Indonesia, Malaysia. These are the furniture manufacturing countries usually they provide furniture most of the other parts of the world. You get choose from the catalogue already available from the manufactures it can be inspected in the shop or a store room manufactures catalogue illustrate various pieces and give fairly complete data on dimensions and constructions, and available finishes and usually give suggestions about planning and layout as well.

So when you choosing from manufacture catalogue what all include in that include the, they include titles finishers that have the furniture available in the, the furniture may be available in the when you finish it can be available in the laminated finish, it can be the lacked glass finish it can be purely tinted printed mirror finish so all these are different finishers which the furniture might be available the catalogs could contain all these and then getting into the suggestions of, how the furniture can be arranged in the space.

So if the manufacturers of that particular modular furniture giving new different dimensions by two feet by four feet, two feet by six feet tables, so different ways in which furniture can be arranged together to create a space also comes as the suggestions from the manufactures itself. So these are the advantages which you face when you choosing furniture from this, from manufacturer catalogue or pre-tested and tested and proven and furniture range. So here it becomes easier for the furniture designer for the interior designer to choose and use furniture in that particular space.

Modular furniture again it is the ready-made furniture in most of the cases. Modular furniture is made up of standard units that can be put together in numerous ways. Modularity makes it possible to reconfigure groups as needs change or to suits a move to new locations. So, Say yes the modular furniture here image shows L shaped the modular unit which is been

arranged in four by four setup, say four units which have been placed on either sides of each other, so this particular Unit can be put in any floor plate or any space to create the workstation for four people together and can be arranged in linear fashion overall flow remains the same after while the say furniture setup after setup three year as you wish to move from the particular space to different space.

so the same set of furniture can be dismantled taken to the new space and assembled different layout which the manufacture actually recommended things are actually required feels right and then, you used again that is the advantage of modular furniture itself and the modular furniture these most of the office furniture modular and most of the time it is not made in the place it is used that the lot of manufactures countries from where it is imported in bulk quantities and then used and then different manufacturing units are also setup in different parts of the countries in furniture's.

So this furniture is not made on the site and they are imported countries or it may be taken from the different manufacturing units around the state or city taken to site assembled this is very quick to do, because these most of the furniture available in the factory and stressed about assembling these furniture's on site together work done. So work happens very fast compared to custom made furniture.

Knockdown furniture:

What is the Knockdown furniture? Knockdown furniture is usually modular, but made a shipped disassembled. So, in the image shows the block of some seats of word would be assembled here which is been put up here. These are these actually make up a table.

It can be knocked out to a small packet or a box and then shift to the different destination again reopen the box follow a simple procedure and to make up a table completely. So these are knockdown furniture works. Knockdown furniture leads to major saving in cost for ware housing packing and shipping. When budgets are limited, furniture products that are well designed and functionally serviceable yet inexpensive are essential.

So in those cases knockdown furniture comes down very handy this is the lot of exporting countries manufacturing countries which exports furniture and knockdown furniture is one of those very recent trend in developing countries to uses knockdown furniture's is imported from somewhere else.

What are the criteria for choosing furniture? First thing is the function: what is the purpose of the unit? What is the unit's specific function? What are the sizes required? Say book shelf, what are the books it going to contain? How many books it going to contain?

That is very accessible height set of usable, with the reading table is the size ergonomically placed so, all these are functional orientations for furniture selection. Then could be structural and a material constraints: like what level of strength does the intended use require? Say if I am going to use it as a writing table so it sets it is not too much are heavy work happened on that table, if I uses the table for someone to stand on that table then the material to be which needs very strong. This can be made of particle board is somebody standing in the top of the table it breaks, it has to be made of solid works if you planning to someone sit over it or stand over it or it can be made of metals.

Structural strength of the materials, what is the quality of materials? What is the finish? Either it can be laminated or finish when you can be finish when you high glass finish or Italian lamination finish all these are different finish for the same set of furniture which is being used it is a durable how long it is going to durable to use for that particular function. Those are questions to asked yourself. If are suggesting the material for that particular furniture so again utilitarian have your own function needs it going to be writing table unit need at least 750mm space it's the reading table unit at 680mm of space if it is going to be a writing desk it needs 610mm height it is the comfortable sitting chair the width of the chair should be at least 800mm if it is going to be a you know a pantry table, or dining pantry table, or utility table then the heights needs not more than 1900mm which is reachable height for any common man so, all these are based on ergonomics human dimensions important to whom you design for it? For specific person who you design for it? So depending upon the dimensions come handy in for choosing the furniture.

Aesthetics:

Then comes aesthetics are the style and character appropriate to the unit's intended use and to the overall design approach developed for the space? So here the image shows a chair. Which is very interesting and very geometric and it's got a cushion back, it's got netted geometric form behind which added the aesthetic value to the space.

Does the unit posse's aesthetic merit at all? Does it solve the functionintended for it?

Those are questions which unit to answer for your space.

What is the cost relation to the available budgets?

So, usually your 60% of your interior cost goes in spending on your furniture. What is the life time cost it is maintainability day-to-day basis these are the questions which need an answers for choosing furniture for you.