

संदर्भ -बी.डेस - इंटरिअर डिझाईन/ सी.बी.सी.एस /२०२२/ १८९०

दि.१४/०२/२०२२

प्रति,
मा. उपकुलसचिव,
अभ्यास मंडळ,
शिवाजी विद्यापीठ,
कोल्हापूर.

विषय - शैक्षणिक वर्ष २०२२ - २०२३ पासून बॅचलर ऑफ डिझाईन - इंटरिअर डिझाईन भाग - ३
(सेम ५ व ६ चा सी.बी.सी.एस मधील सुधारीत अभ्यासक्रम स्विकारणेबाबतकृ
संदर्भ - शिवाजी वि/अमं/२७४/ दि.१२/०९/२०२२

महोदय,

उपरोक्त विषयास अनुसरून शैक्षणिक वर्ष २०२२ - २०२३ पासून बॅचलर ऑफ डिझाईन - इंटरिअर डिझाईन भाग - ३ (सेम ५ व ६ चा सी.बी.सी.एस मधील सुधारीत अभ्यासक्रम आपणास सादर करित आहे. तरी तो स्विकारावा हि विनंती.
कळावे,



आपली विश्वासू,
Principal

Ar. Girija Kulkarni
Kalaprabodhini's Institute of Design
253/Kh, Nagala Park, Kolhapur

सोबत - १. बॅचलर ऑफ डिझाईन - इंटरिअर डिझाईन भाग - ३ (सेम ५ व ६)

SHIVAJI UNIVERSITY, KOLHAPUR



UNDER THE FACULTY OF INTERDISCIPLINARY
STUDIES – (IDS)

CHOICE BASED CREDIT SYSTEM (CBCS)

Structure, Scheme, & Syllabus for

BACHELOR OF DESIGN (B. Des)
(INTERIOR DESIGN)

PART – III (SEM – V & VI)

**Syllabus to be Implemented from
Academic Year 2022-2023**

(Subject to the modifications that will be made from time to time)

SHIVAJI UNIVERSITY, KOLHAPUR
THIRD YEAR - Bachelor of Design (B. Des) – Interior Design
 Scheme of Teaching and Examination
Semester – V

Sr. No		Course (Subject Title)	TEACHING SCHEME						EXAMINATION SCHEME							
			THEORY			STUDIO			THEORY /CONTINUOUS INTERNAL EVALUATION				EXTERNAL EVALUATI ON OF TERM WORK		INTERNAL EVALUATION OF TERM WORK	
			Credits	No of Lectures	Hours	Credits	No of Studios	Total Credit	Mode	Marks	Total Marks	Min	Max	Min	Max	Min
1	Interior Design – V	CC -501	1	1	-	4	9	5	CIE	10	10	5	-	-	100	50
									ESE	-	-	-				
2	Furniture Design-III	DSE-502	-	1	-	2	1	2	CIE	10	10	5			50	25
									ESE	-	-	-				
3	Design Execution Drawing - I	CC -503	1	1	-	2	5	3	CIE	10	10	5	-	-	100	50
									ESE	-	-	-				
4	Landscape Design – I	DSE- 504	1	1	-	2	3	3	CIE	10	10	5	-	-	50	25
									ESE	-	-	-				
5	Interior Technology & Material – IIII	CC- 505*	1	1	-	1	4	2	CIE	10	10	5	-	-	50	25
									ESE	100	100	35				

6	Interior Services - III	CC- 506*	1	2	-	1	-	2	CIE	10	10	5	-	-	50	25
									ESE	50	50	18				
7	Estimating, Costing & Professional Practice - I	CC-507*	1	3	-	1	1	2	CIE	10	10	5	-	-	50	25
									ESE	100	100	35				
8	Sustainable Interiors - I	ACE-508	-	1	-	1	1	1	CIE	10	10	5	-	-	50	25
									ESE	-	-	-				
9	Electives – I	GE-509	1	1	-	10	-	2	CIE	10	10	5	-	-	50	25
									ESE	-	-	-				
10	Open Electives – V	OE - 510	-	-	-	-	-	2	CIE	-	-	-			20	10
									ESE	-	-	-				
			7	12		15	24	24			340				570	

Fifth Semester Total periods per week – 36

(Note – each lecture / studio period is considered of 50 minutes)

* Means Combine passing for Semester V Theory paper & internal oral

Total credits – 24

Total Marks – 910

Sem – V for Open Elective – 510 Anyone from following

1. Graphic/ Communication Design
2. Photography
3. Office Accounting Etc.
4. Any other open Electives in each semester are subjected to change as per the need of the industry, Market and skill requirements as per specific time and syllabus.

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

OE – Open Elective

SHIVAJI UNIVERSITY, KOLHAPUR
THIRD YEAR - Bachelor of Design (B. Des) – Interior Design
Scheme of Teaching and Examination
Semester – VI

Sr. No		Course (Subject Title)	TEACHING SCHEME						EXAMINATION SCHEME							
			THEORY			STUDIO			THEORY / CONTINUOUS INTERNAL EVALUATION				EXTERNAL EVALUATION OF TERM WORK		INTERNAL EVALUATION OF TERM WORK	
			Credits	No of Lectures	Hours	Credits	No of Studios	Total Credit	Mode	Marks	Total Marks	Min	Max	Min	Max	Min
1	Int. Design - VI	CC-601**	1	1	-	4	9	5	CIE	10	10	5	100	50	100	50
									ESE	150	150	68				
2	Furniture Design-IV	DSE-602	-	1	-	2	1	2	CIE	10	10	5	50	25	50	25
									ESE	-	-	-				
3	Design Execution Drawing - II	CC -603	1	1	-	2	5	3	CIE	10	10	5	100	50	100	50
									ESE	-	-	-				
4	Landscape Design – II	DEC- 604	1	1	-	2	3	3	CIE	10	10	5	50	25	50	25
									ESE	-	-	-				
5	Interior Technology & Material - IV	CC- 605*	1	1	-	1	4	2	CIE	10	10	5	-	-	50	25
									ESE	100	100	35				

6	Interior Services - IV	CC- 606*	1	2	-	1	-	2	CIE	10	10	5	-	-	50	25
									ESE	50	50	18				
7	Estimating, Costing & Professional Practice - II	CC-607*	1	3	-	1	1	2	CIE	10	10	5	-	-	50	25
									ESE	100	100	35				
8	Sustainable Interiors - II	ACE-608	-	1	-	1	1	1	CIE	10	10	5	-	-	50	25
									ESE	-	-	-				
9	Electives – II	GE-609	1	1	-	1	-	2	CIE	10	10	5	-	-	50	25
									ESE	-	-	-				
10	Open Electives – VI	OE - 610	-	-	-	-	-	2	CIE	-	-	-			20	10
									ESE	-	-	-				
			7	12	-	15	24	24			490		300		570	

Fourth Semester Total periods per week – 36

- Note – 1. (*) Means combine passing for internal oral & theory paper.
2. (**) Means combine passing for external oral & Theory paper
3. A candidate should obtain min 35% marks in theory exam.

Total credits – 24

Total Marks – 1360

Sem – VI for Open Elective – 610 Anyone from following

1. Presentation Software study for 2 D/ 3D
2. Film Appreciation
3. Animation Design
4. Exhibition Design
5. Any other open Electives in each semester are subjected to change as per the need of the industry, Market and skill requirements as per specific time and syllabus.

CIE- Continuous Internal Evaluation **ESE** – End Semester Examination

OE- Open Elective

Semester – V

Sr No	Code No	Name of the Subject	Credit
1	CC -501	Int. Design – V	5
2	DSE-502	Furniture Design-III	2
3	CC-503	Design Execution Drawing - I	3
4	DEC- 504	Landscape Design - I	3
5	CC -505*	Interior Technology & Material - I	2
6	CC- 506*	Interior Services -III	2
7	CC- 507*	Estimating, Costing & Professional Practice - I	2
8	ACE – 508	Sustainable Interiors - I	1
9	GE -509	Electives – I	2
10	OE- 510	Open Elective	2
		Total Credit	24

Semester – VI

Sr No	Code No	Name of the Subject	Credit
1	CC -601**	Int. Design – VI	5
2	DSE-602	Furniture Design-IV	2
3	CC-603	Design Execution Drawing - II	3
4	DEC- 604	Landscape Design -II	3
5	CC -605*	Interior Technology & Material – IV	2
6	CC- 606*	Interior Services -IV	2
7	CC- 607*	Estimating, Costing & Professional Practice – II	2
8	ACE – 608	Sustainable Interiors – II	1
9	GE -609	Electives – II	2
10	OE- 610	Open Elective	2
		Total Credit	24

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Interior Design –V	L	S	Credit
Course Code:	CC- 501	1	9	5

Course Description:

This continues to be the main subject in the curriculum. Interior design problems of highly complex nature are to be tackled by the students. In this semester supposed to deal with high end residence, commercial project in depth for conceptualization, technology, Construction & Services for preparing themselves for being professional interior Designers

Course Outcomes:

- Apply professional design acumen with enhanced skill of planning interior Project.
- Emphasis to the relationship of space to the contextual environment, achieving design interpretations through client profiling, case study & framing of requirements.
- Application of advanced knowledge to materials used, construction techniques, furniture & services while designing highly complex and complicated spaces.
- Discuss and on décor how it enhances and reflect concept
- Explore a variety of visual presentation techniques
- Explore verbal presentation skills to elaborate design projects
- Design a large space up to 700 SQM for residential, Commercial space by application of theory of Design.

Teacher Assessment:

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	100	50
External Evaluation	-	-

Course Contents:

The student will be able to:

Unit 1 Studies of highly complex and complicated Design project of large scale and specialized multi-functional interior spaces like High end residential spaces etc. Auditorium, museums, shopping and entertainment malls, hospitals Administrative buildings, hospitality etc. With the help of drawing portfolio through sketches, full scale drawing etc.

Unit 2 Use a variety of drawing media to effectively communicate design development

Unit 3 Use a variety of drawing media to effectively communicate design solutions

Unit 4 Understand and discuss the interior environment in the context of the exterior

Reference: -

1. Ahamd A Kasu
2. Time-saver Standards for Interior Design & Space Planning by Joseph Dechiara, Jullis Panreo & Morhin Zelnik
3. Neuferts Architect Data by Ernst & peter Neufert
4. E- Broucher, Net case Studies

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Furniture Design -III	L	S	Credit															
Course Code:	DSE- 502	1	1	2															
Course Description: Way of analyzing furniture forms and designing furniture scientifically based on ergonomics, materials and working parameters and visual perception of furniture as a single form and as system in a given interior space. 1. Modular in furniture design like closets, kitchen cabinets, displays, etc. 2. Understanding of modular approach, viability and validity of each component in furniture element. By using materials like wood, glass, metals, F.R.P., leather, etc. System Design approach and space planning through minimum one residential and commercial furniture as elements of design.																			
Course Outcomes: • Exploring the modular space furniture with respect to manufacturing technology, packing transport, material and detailing; • Furniture concept development based on problem identification, uses study and providing functional solution to it • Exploring full-size drawing and prototype;																			
Teacher Assessment: <table><tr><th>Assessment</th><th>Marks</th><th>Pass</th></tr><tr><td>CIE</td><td>10</td><td>5</td></tr><tr><td>ESE</td><td>-</td><td>-</td></tr><tr><td>Internal Evaluation</td><td>50</td><td>25</td></tr><tr><td>External Evaluation</td><td>-</td><td>-</td></tr></table>					Assessment	Marks	Pass	CIE	10	5	ESE	-	-	Internal Evaluation	50	25	External Evaluation	-	-
Assessment	Marks	Pass																	
CIE	10	5																	
ESE	-	-																	
Internal Evaluation	50	25																	
External Evaluation	-	-																	
Course Contents: Unit 1 Understanding of modular furniture – Residential Space • With reference to- mass furniture, Mfg. technology, packing & transport, inspection & organizing, material & detailing, With reference to ergonomics & adjustability. Unit 2 Research, Exploration and Development • Analysis of space and furniture based on design brief. • Furniture technology i.e. SOM & Structures, joineries • Furnishing & fittings • Users Study and identification of functional problem • Concept Development & Exploration based on material, technological & human centered design through sketches, full scale drawing etc. Unit 4 Understanding the critical issues of human anthropometrics, details and aesthetics through models mockup & prototypes.																			

Reference:-

1. Ahamd A Kasu
2. Time-saver Standards for Interior Design & Space Planning by Joseph Dechiara, Jullis Panreo & Morhin Zelnik
3. Neuferts Architect Data by Ernst & peter Neufert
4. E- Broucher, Net case Studies

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Design Execution Drawing – I	L	S	Credit
Course Code:	CC- 503	1	5	3

Course Description:

This subject provides the technical base for the execution of the designer's ideas.

The course is giving detail knowledge of detail drawing to be send on site. Design execution drawing plays a vital role in execution of project.

Course Outcomes:

- Explore technical drawing for 2-3 interior design projects one each in residential and commercial project;
- Use manual and computer tools in drafting the portfolios.
- Exploring learning detail drawing for execution onsite
- Exploring various material & technics in drawing for execution.
- The course provides confidence in the student to execute their innovate concept in reality

Teacher Assessment:

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	100	50
External Evaluation	-	-

Course Contents:

The content must stress on three areas.

Unit 1 Working drawing and details of two to three interior design projects in both the semesters (Preferably the student's own designs done in the second year.

Unit 2 One residential project and other commercial project) should be completed by the students and presented as portfolios; minimum one portfolio should be done by hand drafting and others by computerized Drafting. like all types of layout, Furniture ceiling, electrical, flooring, plumbing, furniture details Façade design etc.

Reference: -

1. Ahamd A Kasu
2. Time-saver Standards for Interior Design & Space Planning by Joseph Dechiara, Jullis Panreo & Morhin Zelnik
3. Building Construction – Metric by J. k Mckay
4. Construction for Interior Deisgn by Ralond Ashcroft.

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Landscape Design – I	L	S	Credit															
Course Code:	DEC- 504	1	3	3															
Course Description: The Course Landscape explores the relation between exterior & interior space. It includes designing of different types of landscape to enhance interior project in day today life. The course plays important role in increasing urbanizations.																			
Course Outcomes: • The Course explores different ideas of landscape designing • Explores & enhances interior & exterior space by Designing landscape. For terrace outdoor etc. • Explores small indoor, Landscape designing like Corridors, lobbies courtyard, • Course will explore the opportunity to opt for specialization in landscape Design.																			
Teacher Assessment: <table><tr><td>Assessment</td><td>Marks</td><td>Pass</td></tr><tr><td>CIE</td><td>10</td><td>5</td></tr><tr><td>ESE</td><td>-</td><td>-</td></tr><tr><td>Internal Evaluation</td><td>50</td><td>25</td></tr><tr><td>External Evaluation</td><td>-</td><td>-</td></tr></table>					Assessment	Marks	Pass	CIE	10	5	ESE	-	-	Internal Evaluation	50	25	External Evaluation	-	-
Assessment	Marks	Pass																	
CIE	10	5																	
ESE	-	-																	
Internal Evaluation	50	25																	
External Evaluation	-	-																	
Course Contents: Unit 1 Study of various landscape elements Unit 2 Study of plants (trees, & ground lovers in terms of their shape, size, form, color texture etc. study of various indoor as well as outdoor plants & their uses in landscape design. Unit 3 Study of landscapes, their use in landscape. Unit 4 Introductions to design principals & methodology of landscape design Through with the help of drawing portfolio through sketches, full scale drawing etc.																			
Reference: - 1. Landscape Design – Practical approach by Leroy G. Hannebaum 2. Landscape Graphics by Grant W, Reid Asla 3. The Creative Water Gardener by Andrew Wilson 4. Karu																			

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Interior Technology & Material – III	L	S	Credit
Course Code:	CC- 505*	1	4	2

Course Description:

This Course will provide an advanced understanding of the Interior technology of construction

Study of advanced materials & products that are used in interior projects and Introduction of advanced materials & products that are used in Architecture in the current day & age. Emphasis will be placed gaining an understanding of Interior technology in reference to materials, methods, fabrication techniques in order to cater specific use of these advance materials.

Course Outcomes:

- Explore advance concept of the technique in Interior technology
- Explore different advance Interior technologies.
- Application different material for Interior technologies
- Course provides detail knowledge of application of different methodologies for advance interior technology

Teacher Assessment:

Note: - (*) Means Combined passing for Internal & Theory exam.

Assessment	Marks	Pass
CIE	10	5
ESE	100	35
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents:

- Major part of this course will focus on market research so material's company website and their E- brochures should be referred by students.

Unit 1 Advanced materials and its constructions. -like –

A.C.P – Used as interior material, Used for exterior with details

Polycarbonate sheet: - For Parking, courtyard or open to sky covering. Hardware Fittings and fixtures, Electrical layout, symbol etc.

Unit 2 Acoustical doors, window, wall treatment.

Unit 3 Any other advanced technology like automation, security system etc. used in interiors is recommended to Introduce and give detailed Study of it.

Unit 4 Studio work - Actual site experiences and implementation of above-Mentioned topics in design.

Unit 5 Market surveys based on above mentioned different materials and related presentation

References:

- Interior Design – Ahmed A Kasu
- Building Services & Equipment's by Fre derick Ehall (Services)
- Building Services – S. M. Patil
- Part of this course will focus on market research so material's company website and their E- brochures should be referred by students.
- The students are also expected to visit & refer material manufacturers & do market survey & vendor's presentations related to interior profession

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Interior Services - III	L	S	Credit
Course Code:	CC- 506*	2	-	2

Course Description:

The course includes introduction to different advanced services used in interior project for buildings, high-rise structures. Enable students to learn & for better services, amenities & comfort in interior space.

Course Outcomes:

- Exploring the advance services in any building with respect to interior
- Exploring study of natural & artificial light & ventilation.
- Exploring use of advance services available in the market from time to time.
- Course will provide student knowledge about all the services, will help to lead good understanding of services and referring the concern consultants for the interior project.

Teacher Assessment:

Note: - (*) Means Combined passing for Internal & Theory exam.

Assessment	Marks	Pass
CIE	10	5
ESE	50	18
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents:

Unit 1 Advance building services like.

H. V. A. C. Detail –

Need of Air Condition, Mening of Air Condition: Comfort conditions, Heat gain calculations, Refrigeration cycle, Equipment and accessories, systems, Sick building syndrome intelligent buildings, Type of A.C: -Planning of buildings for air conditioning, System of air conditioning, ,– central plant – refrigerants – chillers- planning & Installation – general AC layout etc...

Unit 2 Artificial lighting and different types of wiring: -

Planning for lighting: - Position of lighting points – strength of light – type of light – type of light & its cover Type of Fixtures: - Elements of fixtures etc

Different type of Wiring system, LUX.

M.C.B. Earthling, general electric layout of a residence- etc..

Unit 3 Security systems: -

Security system equivalents like C.C. T.V. Glass break detectors, advance access controls etc.

Unit 4 Acoustics and sound insulating materials: -

Behavior of sound in an enclosed space material used for sound insulation.

Different methods of reduction & insulation of unwanted sound, etc..

Unit 5 Irrigation System for-

Indoor planting ,Terrace Gardens , small exterior planting, lawn, sprinklers arrangement of pipping spanker system access to control valves, drainage of lawn sprinklers, automatic sprinkler system, types of sprinklers

References:

- Interior Design – Ahmed A Kasu
- Building Services & Equipment's by Fre derick Ehall (Services)
- Building Services – S. M. Patil
- Part of this course will focus on market research so material's company website and their E- brochures should be referred by students.

The students are also expected to visit & refer material manufacturers & do market survey & vendor's presentations related to interior profession

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Estimating, Costing & Professional Practice - I	L	S	Credit
Course Code:	CC- 507*	1	1	2

Course Description:

The course Includes introduction to estimating & costing, course Also gives introduction to process of tender. Market Study in respect of rate is included. Course will give aspect of office management, site management, project management.

Course Outcomes:

- Course explores ability to prepare estimation of interior project.
- Course explores the knowledge of current material rates
- Course explores the ability to enhance bidding process.
- Course will give detail knowledge to the student about financial aspect and legal aspect in executing the project.

Teacher Assessment:

Note: - (*) Means Combined passing for Internal oral & Theory exam.

Note: Their will combine paper of estimation and costing and professional practice of duration 4 hrs. for 100 marks.

Assessment	Marks	Pass
CIE	10	5
ESE	100	35
Internal Evaluation	50	25
External Evaluation	-	-

COURSE CONTENTS: ESTIMATION COSTING

Unit 1 Introduction to subject.

Unit 2 Mode of measurement.

Unit 3 Market survey -Basic material & their rates i.e. stone, brick, clay product, cement, plaster of Paris, timber artificial boards, laminates fitting & fixtures, glass, plastic, metal, etc.

Unit 4 What is estimation & related topics

1. Introduction
2. What is an Estimation
3. Methods of Estimation
4. Data required for Estimate
5. Types of Estimations
6. Mode of measurement

7. Contingencies

Unit 5 Quantity survey of single & multi-items.

Unit 6 Preparation of estimate using measurement sheet & abstract sheet.

COURSE CONTENT – PROFESSIONAL PRACTICE

Introduction to professionalism, design practice, working of design organization

Unit 1 The profession of interior design.

Unit 2 Professional preparation- Education preparation, professional association

Unit 3 Characteristics of interior designer.

Unit 4 Office management

Unit 5 Clients

Unit 6 site management

Unit 7 professional correspondence,

Unit 8 recruitment of staff .

References –

- Estimating and Costing in civil Engineering - B.N.Dutta
- Estimating and Costing- J.R.Muley
- Elements of estimating & costing – S.C.Rangawala
- Architectural practice & procedure - Ar.V.S.Apate.
- Professional practice for interior designers - Christine m. pitrowski, ASID, IIDA
- Interior design – Ahmed Kasu
- Building construction & supervision – practical handbook - Pramod Beri
- The students are also expected to visit & refer material manufacturers & do market survey & vendor's presentations related to interior profession
- Part of this course will focus on market research so materials company websites & e-brochures should be referred by students.

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Sustainable Interiors - I	L	S	Credit
Course Code:	ACE- 508	1	1	1

Course Description:

After the era of industrial revolution, the necessity of Sustainable Interiors is becoming an essential parameter in any designing. The efficient use of our natural resources is vitally important to our futures.

There is growing recognition within the sustainability movement that to be truly effective, a green facility must do more than effectively use of natural resources. These facilities need to nurture the health, prosperity and general well-being of the inhabitants of its interior spaces.

Course Outcomes:

- Course explores the ever trendy concept sustainability
- Explore ability to study sustainable material.
- Explore ability to study green Concept
- Explore study of energy conservation.
- The course will give knowledge of sustainable concept and explore the opportunity for specialization

Teacher Assessment:

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents:

Introduction to the Indian and European Architecture.

Unit 1 Sustainable interiors designing is possible by adopting various policies

Unit 2 The Concept of Sustainable Interiors

Unit 3 Principles of Sustainable Interior Design,

Unit 4 Benefits of Green Interiors

Unit 5 What is Indoor Environment Quality (IEQ)

- Elements associated to IEQ –

References:

- Sustainable commercial interior by penny Bonda & Katie Sosnowhik
- Green Building Material by Ross Spiegel & Dru Meadows
- Major Part of this course will focus on market research so material's company website and their E- brochures, papers published by different authors, award-winning projects related to green/sustainable from time to time etc. Should be referred by students.
- The students are also expected to visit & refer material manufacturers & do market survey

& vendor's presentations related to interior profession

- IGBC (Indian Green Building Council) website.

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Electives – I	L	S	Credit
Course Code:	CC- 509	1	-	2

Course Description:

General elective seminars are exposure and value addition to course, which are selected out of wider choices of subjects and offered in combination uniquely designed each year based on the topical value, resources, and personals availabilities.

Course Outcomes:

- Student will able to Understand and their choice related to “Design” in General
- The Study of Elective Seminar paper, students will propose and will be able to present the seminar.
- It will be introduction for them for academic writing and presenting methods to a border spectrum
- The Course will provide detail knowledge of different fields related to interior projects and explore opportunity of presenting papers and doing specialization on concern subjects.

Teacher Assessment:

- Final PPT presentation & printed reports.

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents:

Unit 1 Electives are offered in major areas of other related creative fields. The major areas are

- (1) Humanities
- (2) History
- (3) Art
- (4) Craft
- (5) Management.

LIST OF OPEN ELECTIVES	
Offered By INTERIOR DESIGN	
OPEN ELECTIVE	2 Credit
1. Graphic/ Communication Design 2. Photography 3. Office Accounting Etc. 4. Any other open Electives in each semester are subjected to change as per the need of the industry, Market and skill requirements as per specific time and syllabus	

GENERAL GUIDELINES OF QUESTION PAPERS
(Which may get differ Slight according to weight age of the questions)
Bachelor of Design – Third Year (B.Des)
Semester – V
Sub- Interior Technology - III

Total Marks: - 100

Duration: - 4 hrs

Instructions: -

- 1. Q. No.1 is compulsory and solve any three from remaining.**
- 2. Figures given to the right indicate marks of the questions.**
- 3. Use of calculator is permissible.**
- 4. Draw neat sketches wherever necessary.**

-
- | | | |
|------|---|----|
| Q. 1 | Question of design and drafting of concern topic.
(Plan, elevation, section, etc. as specified.) | 40 |
| Q. 2 | Write in brief or discuss following (Any two)
A)
B)
C) | 20 |
| Q. 3 | Describe the following (Any one)
A)
B) | 20 |
| Q. 4 | Write short notes (Any four)
A)
B)
C)
D)
E) | 20 |
| Q. 4 | Explain the following (Any four)
A)
B)
C)
D)
E) | 20 |

GENERAL GUIDELINES OF QUESTION PAPERS
Bachelor of Design – Third Year (B.Des)
Semester – V
Sub- Interior Services - III

Total Marks: - 50

Duration: - 2 hrs

Instructions: -

- 1. All the questions are compulsory.**
 - 2. Figures given to the right indicate marks of the questions.**
 - 3. Draw neat sketches wherever necessary.**
-

- | | | |
|------|--|----|
| Q. 1 | Draw sketches of the given subject. (Any two) | 10 |
| | A) | |
| | B) | |
| | C) | |
| Q. 2 | Explain the following. (Any one) | 10 |
| | A) | |
| | B) | |
| Q. 3 | Write in brief answers of the following. (Any two) | 10 |
| | A) | |
| | B) | |
| | C) | |
| Q. 4 | Explain with sketches. (Any four) | 20 |
| | A) | |
| | B) | |
| | C) | |
| | D) | |
| | E) | |

GENERAL GUIDELINES OF QUESTION PAPERS

**Bachelor of Design – Third Year (B.Des)
Semester – V**

Sub- Estimating Costing and Professional Practice - I

Total Marks: - 100

Duration: - 4 hrs

Instructions: -

- 1. All the questions are compulsory.**
- 2. Figures given to the right indicate marks of the questions.**
- 3. Draw neat sketches wherever necessary.**
- 4. Use of calculator is permissible**
- 5. Assume suitable data wherever necessary.**

Q. 1	Explain. (Any two)	10
	A)	
	B)	
	C)	
Q. 2	explain the following. (Any one)	10
	A)	
	B)	
Q. 3	Write in brief answers of the following. (Any two)	10
	A)	
	B)	
	C)	
Q. 4	Short notes. (Any four)	20
	A)	
	B)	
	C)	
	D)	
	E)	
Q. 5	Write mode of measurement and prevailing market rates of the following items.	10
Q. 6	Short notes. (Any Three)	12
	A)	
	B)	
	C)	
	D)	
Q. 7	Explain. (Any One)	8
	A)	
	B)	
Q. 8	Workout the quantities required for the items of the sketch given.	20

Prepare measurement and abstract .

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Interior Design –VI	L	S	Credit
Course Code:	CC- 601**	1	9	5

Course Description:

This continues to be the main subject in the curriculum. Interior design problems of highly complex nature are to be tackled by the students. In this semester supposed to deal with high end residence, commercial project in depth for conceptualization, technology, Construction & Services for preparing themselves for being professional interior Designers.

Course Outcomes:

- Apply professional design acumen with enhanced skill of planning interior Project.
- Emphasis to the relationship of space to the contextual environment, achieving design interpretations through client profiling, case study & framing of requirements.
- Application of advanced knowledge to materials used, construction techniques, furniture & services while designing highly complex and complicated spaces.
- Discuss and on décor how it enhances and reflect concept
- Explore a variety of visual presentation techniques
- Explore verbal presentation skills to elaborate design projects
- Design a large space up to 700 SQM for residential, Commercial space by application of theory of Design.

Assessments:

Teacher Assessment:

Note: - 1. () Means combine passing for external oral & Theory paper**

Assessment	Marks	Pass
CIE	10	5
ESE	150	68
Internal Evaluation	100	50
External Evaluation	100	50

Course Contents:

The student will be able to:

- Unit 1** Studies of highly complex and complicated Design project of large scale and specialized multi- functional interior spaces like High end residential spaces etc. Auditorium, museums, shopping and entertainment malls, hospitals Administrative buildings, hospitality etc. With the help of drawing portfolio
- Unit 2** Use a variety of drawing media to effectively communicate design development
- Unit 3** Use a variety of drawing media to effectively communicate design solutions
- Unit 4** Understand and discuss the interior environment in the context of the exterior

Reference: -

1. Ahamd A Kasu
2. Time-saver Standards for Interior Design & Space Planning by Joseph Dechiara, Jullis Panreo & Morhin Zelnik
3. Neuferts Architect Data by Ernst & peter Neufert
4. E- Broucher, Net case Studies

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Furniture Design –IV	L	S	Credit
Course Code:	DSE- 602	1	1	2

Course Description:

Way of analyzing furniture forms and designing furniture scientifically based on ergonomics, materials and working parameters and visual perception of furniture as a single form and as system in a given interior space.

1. Modular in furniture design like closets, kitchen cabinets, displays, etc.
2. Understanding of modular approach, viability and validity of each component in furniture element. By using materials like wood, glass, metals, F.R.P., leather, etc. System Design approach and space planning through minimum one residential and commercial furniture as elements of design.

Course Outcomes:

- Exploring the modular space furniture with respect to manufacturing technology, packing transport, material and detailing;
- Furniture concept development based on problem identification, uses study and providing functional solution to it
- Exploring full-size drawing and prototype;

Teacher Assessment:

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	50	25
External Evaluation	50	25

Course Contents:

Unit 1 Understanding of modular furniture – Commercial Space

- With reference to- mass furniture, Mfg. technology, packing & transport, inspection & organizing, material & detailing, With reference to ergonomics & adjustability.

Unit 2 Research, Exploration and Development

- Analysis of space and furniture based on design brief.
- Furniture technology i.e. SOM & Structures, joineries
- Furnishing & fittings
- Users Study and identification of functional problem

- Concept Development & Exploration based on material, technological & human centered design through sketches, full scale drawing etc.

Unit 4 Understanding the critical issues of human anthropometrics, details and aesthetics through models mockup & prototypes.

Reference: -

1. Ahamd A Kasu
2. Time-saver Standards for Interior Design & Space Planning by Joseph Dechiara, Jullis Panreo & Morhin Zelnik
3. Neuferts Architect Data by Ernst & peter Neufert
4. E- Boucher, Net case Studies

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Design Execution Drawing - II	L	S	Credit
Course Code:	CC- 603	1	5	3

Course Description:

This subject provides the technical base for the execution of the designer's ideas.

The course is giving detail knowledge of detail drawing to be send on site. Design execution drawing plays a vital role in execution of project.

Course Outcomes:

- Make technical drawing for 2-3 interior design projects one each in residential and commercial project;
- Use manual and computer tools in designing;
- Execute the design in to actual;
- Explain the execution of drawing in to actual.
- Exploring learning detail drawing for execution onsite
- Exploring various material & technics in drawing for execution.

Teacher Assessment:

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	100	50
External Evaluation	100	50

Course Contents:

- Design Execution drawing and details of two to three interior design projects in both the semesters (preferably the student's own designs done in the second year.

Unit 1 One commercial project) should be completed by the students and presented as portfolios, minimum one portfolio should be done by hand drafting and others by computerized Drafting. (all types of. like all types of layout, Furniture ceiling, electrical, flooring, plumbing, furniture details Façade design etc.

Reference: -

1. Ahamd A Kasu
2. Time-saver Standards for Interior Design & Space Planning by Joseph Dechiara, Jullis Panreo & Morhin Zelnik
3. Building Construction – Metric by J. k Mckay
4. Construction for Interior Deisgn by Ralond Ashcroft.

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Landscape Design – II	L	S	Credit															
Course Code:	DCE - 604	1	3	3															
Course Description: The Course Landscape explores the relation between exterior & interior space. It includes designing of different types of landscape to enhance interior project in day today life. Landscape plays important role in increasing urbanizations.																			
Course Outcomes: • The Course explores different ideas of landscape designing • Explores & enhances interior & exterior space by Designing landscape. For terrace outdoor etc. • Explores small indoor, Landscape designing like Corridors, lobbies courtyard, • Course will explore the opportunity to opt for specialization in landscape Design.																			
Teacher Assessment: <table><tr><td>Assessment</td><td>Marks</td><td>Pass</td></tr><tr><td>CIE</td><td>10</td><td>5</td></tr><tr><td>ESE</td><td>-</td><td>-</td></tr><tr><td>Internal Evaluation</td><td>50</td><td>25</td></tr><tr><td>External Evaluation</td><td>50</td><td>25</td></tr></table>					Assessment	Marks	Pass	CIE	10	5	ESE	-	-	Internal Evaluation	50	25	External Evaluation	50	25
Assessment	Marks	Pass																	
CIE	10	5																	
ESE	-	-																	
Internal Evaluation	50	25																	
External Evaluation	50	25																	
Course Contents: Unit 1 Introduction to Environmental Science such as pollution control, water treatment, rain water harvesting and recycling Landscape Unit 2 Study of various landscape elements Unit 3 Study of plants (trees, & ground lovers in terms of their shape, size, form, color texture etc. study of various indoor as well as outdoor plants & their uses in landscape design. Unit 4 Study of landscapes, their use in landscape. Unit 5 Introductions to design principals & methodology of landscape design. Through with the help of drawing portfolio through sketches, full scale drawing etc.																			
Reference: - 5. Landscape Design – Practical approach by Leroy G. Hannebaum 6. Landscape Graphics by Grant W, Reid Asla 7. The Creative water Gardener by Andrew Wilson 8. Karu																			

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Interior Technology & Material – IV	L	S	Credit
Course Code:	CC- 605*	1	4	2

Course Description:

This Course will provide an advanced understanding of the Interior technology of construction

Study of advanced materials & products that are used in interior projects and Introduction of advanced materials & products that are used in Architecture in the current day & age. Emphasis will be placed gaining an understanding of Interior technology in reference to materials, methods, fabrication techniques in order to cater specific use of these advance materials.

Course Outcomes:

- Explore advance concept of the technique in Interior technology
 - Explore different advance Interior technologies.
 - Application different material for Interior technologies
- Course provides detail knowledge of application of different methodologies for advance interior technology

Teacher Assessment:

Note: - 1. (*) Means combine passing for Internal oral & Theory paper

Assessment	Marks	Pass
CIE	10	5
ESE	100	35
Internal Evaluation	50	25
External Evaluation	-	-

Course Content:

Unit 1 Partitions: - Composite, Glass, modular, acoustical etc...

Unit 2 Paneling: - acoustical, Composite etc...

Unit 3 Ceilings: - Composite with services, acoustical etc...

Unit 4 Firefighting doors & window etc...

Unit 5 Advance types of doors and their locking systems.

Unit 6 Studio work - Actual site experiences and implementation of above
Mentioned topics in design.

Unit 7 Market surveys based on above mentioned different materials and related presentation

- Major part of this course will focus on market research so material's company website and their E- brochures should be referred by students.

References:

- Interior Design – Ahmed A Kasu
- Building Services & Equipments by Frederick Ehall (Services)
- Building Services – S. M. Patil
- Part of this course will focus on market research so material's company website and their E- brochures should be referred by students.
- The students are also expected to visit & refer material manufacturers & do market survey & vendor's presentations related to interior profession
- Different material's company website and their E- brochures should be referred by students.

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Interior Services - IV	L	S	Credit
Course Code:	CC- 606*	1	-	1

Course Description:

The course includes introduction to different advanced services used in interior project for buildings, high-rise structures. Enable students to learn & for better services, amenities & comfort in interior space.

Course Outcomes:

- Exploring the advance services in any building with respect to interior
- Exploring study of natural & artificial light & ventilation.
- Exploring use of advance services available in the market from time to time.
- Course will provide student knowledge about all the services, will help to lead good understanding of services and referring the concern consultants for the interior project.

Teacher Assessment:

Note: - 1. () Means combine passing for Internal oral & Theory paper**

For internal assessment, each topic should be assessed on basis of sketches and Tutorials

Assessment	Marks	Pass
CIE	10	5
ESE	50	18
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents

Unit 1 Advance building services like.

Unit 2 Vertical transportation, etc.

Unit 3 Study of different type of systems used for high rise structures like water

Unit 4 Supply system (hot & cold), fire protection system, ducts, drainage system, Garbage system, refuse chutes etc.

Unit 5 Swimming pools.

Introduction – types of pool- design criteria – construction of swimming pool – spring boards- quality of water – treatment of pool water – Disinfection of pool water etc..

Unit 6 Introduction to study of advanced plumbing services for – Rain showers, body showers, bathtub, Jacuzzi, steam cabins etc. with basic of layout & technical Considerations

Unit- 7 Introduction to waterproofing treatment

Causes of water leakage, Preventive treatment for leakage remedial (Curative) treatment for toilets, tracers & small areas

References:

- Building Services – S. M. Patil
- Interior Design – Ahmed A Kasu
- Interior Design, Principles & Practices by M. Pratapro.
- Part of this course will focus on market research so material's company website and their E- brochures should be referred by students.

The students are also expected to visit & refer material manufacturers & do market survey & vendor's presentations related to interior profession

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Estimating, Costing & Professional Practice - II	L	S	Credit
Course Code:	CC- 607*	1	1	2

Course Description:

The course Includes Introduction to Estimating & Costing, course. Also gives introduction to process of tender. Market Study in respect of rate is included. Course will give aspect of office management, site management, project management.

Course Outcomes:

- Course explores ability to prepare estimation of interior project.
- Course explores the knowledge of current material rates
- Course explores the ability to enhance bidding process.
- Course will give detail knowledge to the student about financial aspect and legal aspect in executing the project.

Teacher Assessment:

Note: - (*) Means Combined passing for Internal oral & Theory exam.

Note: Their will combine paper of estimation and costing and professional practice of duration 4 hrs. for 100 marks.

Assessment	Marks	Pass
CIE	10	5
ESE	100	35
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents: COURSE CONTENTS: ESTIMATION COSTING

Unit 1 Introduction to subject.

Unit 2 Mode of measurement.

Unit 3 Market survey -Basic material & their rates i.e. stone, brick, clay product, cement, plaster of Paris, timber artificial boards, laminates fitting & fixtures, glass, plastic, metal, etc.

Unit 4 Different terms related to estimate

1. Report
2. complete set of Estimate
3. Bill of Quantities
4. Schedule of Rates
5. Administrative approval
6. Prime cost & Provisional sum

Unit 5 Rate analysis

Unit 6 Introduction to specifications etc.

Unit 7 Quantity survey of single & multi-items.

Unit 8 Preparation of estimate using measurement sheet & abstract sheet.

COURSE DESCRIPTION – PROFESSIONAL PRACTICE

Introduction to professionalism, design practice, working of design organization

Course Contents:

Unit 1 Site Management for professional Interior Designer.

Unit 2 Site experience, visits, reports, and supervision, checking on site.

Unit 3 Measurements and records billing & certificate of payments, etc.

Unit 4 Professional correspondence in practice.

Unit 5 Tender, - Meaning of tender, types of tender documents, Invitation of tender, tender notice opening of tender, scrutiny of tenders, acceptance & rejection of tender's work order etc

References –

- Estimating and Costing in civil Engineering - B.N.Dutta
- Estimating and Costing- J.R.Muley
- Elements of estimating & costing – S.C.Rangawala
- Architectural practice & procedure - Ar.V.S.Apate.
- Professional practice for interior designers - Christine m. pitrowski, ASID, IIDA
- Interior design – Ahmed Kasu
- Building construction & supervision – practical handbook - Pramod Beri
- The students are also expected to visit & refer material manufacturers & do market survey & vendor's presentations related to interior profession
- Part of this course will focus on market research so materials company websites & e-brochures should be referred by students.

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Sustainable Interiors – II	L	S	Credit
Course Code:	ACE- 608	1	1	1

Course Description:

After the era of industrial revolution, the necessity of Sustainable Interiors is becoming an essential parameter in any designing. The efficient use of our natural resources is vitally important to our futures.

There is growing recognition within the sustainability movement that to be truly effective, a green facility must do more than effectively use of natural resources. These facilities need to nurture the health, prosperity and general well-being of the inhabitants of its interior spaces.

Course Outcomes:

- Course explores the ever trendy concept sustainability
- Explore ability to study sustainable material.
- Explore ability to study green Concept
- Explore study of energy conservation.
- The course will give knowledge of sustainable concept and explore the opportunity for specialization

Teacher Assessment:

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents:

Unit 1 Interior eco finishes like-

Unit 2 Eco-furniture, reclaimed timber wood, eco palm wood, eco bamboo, eco cork,

Unit 3 Green interiors by indoor plants.

Unit 4 Sustainable interiors by using human health friendly materials.

formaldehyde free fiberboard & FSC certified fiberboard, eco wheat board, strawboard, eco rubber wood, Eco Paint.

Unit 5 Green Interiors by indoor plants.

Unit 6 Sustainable Interiors by using human health friendly materials.

References:

- Sustainable commercial interior by penny Bonda & Katie Sosnowhik
- Green Building Material by Ross Spiegel & Dru Meadows
- Major Part of this course will focus on market research so material's company website and their E- brochures, papers published by different authors, award-winning projects related to green/sustainable etc. Should be referred by students.
- The students are also expected to visit & refer material manufacturers & do market survey & vendor's presentations related to interior profession
- IGBC (Indian Green Building Council) website.

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Electives – II	L	S	Credit
Course Code:	GE- 609	1	-	2

Course Description:

General elective seminars are exposure and value addition to course, which are selected out of wider choices of subjects and offered in combination uniquely designed each year based on the topical value, resources, and personals availabilities.

Course Outcomes:

- Student will able to Understand and their choice related to “Design” in General
- The Study of Elective Seminar paper, students will propose and will be able to present the seminar.
- It will be introduction for them for academic writing and presenting methods to a border spectrum
- The Course will provide detail knowledge of different fields related to interior projects and explore opportunity of presenting papers and doing specialization on concern subjects.

Teacher Assessment:

Assessment	Marks	Pass
CIE	10	5
ESE	-	-
Internal Evaluation	50	25
External Evaluation	-	-

Course Contents:

Unit 1 Electives are offered in major areas of other related creative fields. The major areas are

- (1) Humanities
- (2) History
- (3) Art
- (4) Craft
- (5) Management.

LIST OF OPEN ELECTIVES	
Offered By INTERIOR DESIGN	
OPEN ELECTIVE	2 Credit
1. Presentation Software study for 2 D/ 3D 2. Film Appreciation 3. Animation Design 4. Exhibition Design 5. Any other open Electives in each semester are subjected to change as per the need of the industry, Market and skill requirements as per specific time and syllabus.	

GUIDELINES OF QUESTION PAPERS

Bachelor of Design – Third Year (B. Des)

Semester – VI

Sub- Interior Design - VI

Total Marks: - 150

Duration: - 9 hrs

Instructions: -

1. Assume suitable data wherever necessary and mention it.
 2. You can use only suitable presentation technique on the given paper only.
 3. Refer drawing given.
-

- Design problem -Title
- Design problem – Brief
- Requirements of the design problem given:
- Drawing Requirements: -
 - 1) Concept & furniture layout plan
 - 2) Sectional Elevations (Min- 2)
 - 3) Views to explain the interior design scheme. (Min-2)
 - 4) Furniture detail (any one)
 - 5) Ceiling and flooring layout.

(Note: - Marking Distribution will be as per design problem)

GUIDELINES OF QUESTION PAPERS
(Which may get differ Slight according to weight age of the questions)

Bachelor of Design – Third Year (B.Des)

Semester – VI

Sub- Interior Technology & Material - IV

Total Marks: - 100

Duration: - 4 hrs

Instructions: -

- 1.Q. No.1 is compulsory and solve any three from remaining.**
 - 2.Figures given to the right indicate marks of the questions.**
 - 3.Use of calculator is permissible.**
 - 4.Draw neat sketches wherever necessary.**
-

- | | | |
|------|--|----|
| Q. 1 | Question of design and drafting of concern topic.
(Plan, elevation, section, etc as specified.) | 40 |
| Q. 2 | Write in brief or discuss following (Any two)
A)
B)
C) | 20 |
| Q. 3 | Describe the following (Any one)
A)
B) | 20 |
| Q. 4 | Write short notes (Any four)
A)
B)
C)
D)
E) | 20 |
| Q. 5 | Explain the following (Any four)
A)
B)
C)
D)
E) | 20 |

GUIDELINES OF QUESTION PAPERS

**Bachelor of Design – Third Year (B.Des)
Semester – VI
Sub- Interior Services - IV**

**Total Marks: - 50
Duration: - 2 hrs**

Instructions: -

- 1.All the questions are compulsory.**
 - 2.Figures given to the right indicate marks of the questions.**
 - 3.Draw neat sketches wherever necessary.**
-

- | | | |
|------|--|----|
| Q. 1 | Draw sketches of the given subject. (Any two) | 10 |
| | A) | |
| | B) | |
| | C) | |
| Q. 2 | Explain the following. (Any one) | 10 |
| | A) | |
| | B) | |
| Q. 3 | Write in brief answers of the following. (Any two) | 10 |
| | A) | |
| | B) | |
| | C) | |
| Q. 4 | Explain with sketches. (Any four) | 20 |
| | A) | |
| | B) | |
| | C) | |
| | D) | |
| | E) | |

GUIDELINES OF QUESTION PAPERS

Bachelor of Design – Third Year (B.Des) Semester – VI Sub- Estimating Costing and Professional Practice - II

Total Marks: - 100

Duration: - 4 hrs

Instructions: -

1. All the questions are compulsory.
2. Figures given to the right indicate marks of the questions.
3. Draw neat sketches wherever necessary.
4. Use of calculator is permissible
5. Assume suitable data wherever necessary.

Q. 1	Explain. (Any two)	10
	A)	
	B)	
	C)	
Q. 2	Explain the following. (Any one)	10
	A)	
	B)	
Q. 3	Write in brief answers of the following. (Any two)	10
	A)	
	B)	
	C)	
Q. 4	Short notes. (Any four)	20
	A)	
	B)	
	C)	
	D)	
	E)	
Q. 5	Write mode of measurement and prevailing market rates of the following items.	10
Q. 6	Short notes. (Any Three)	12
	A)	
	B)	
	C)	
	D)	
Q. 7	Explain. (Any one)	08
	A)	
	B)	
Q. 8	Workout the quantities required for the items of the sketch given. Prepare measurement and abstract.	20