

 <p>Estd. 1962 "A" Accredited by NAAC (2021) With CGPA 3.52</p>	<p>SHIVAJI UNIVERSITY, KOLHAPUR 416 004, MAHARASHTRA PHONE : EPABX – 2609000, www.unishivaji.ac.in, bos@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर ४१६ ००४, महाराष्ट्र दूरध्वनी - ईपीएबीएक्स - २६०९०००, अभ्यासमंडळे विभाग - ०२३१-२६०९०९४</p>		
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Ref.No. SUK/BOS/ 323

Date:10 /06/2024

To,

The Principals,

All Concerned Affiliated Colleges / Institutions.

Shivaji University, Kolhapur.

Subject : Regarding syllabi of Bachelor of Desigh (B.Des.) (Interior Desigh)
Part -III (Sem III& IV) under the Faculty of Inter- Disciplinary Studies.

Sir/Madam,

With reference to the subject, mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabii of Bachelor of Desigh (B.Des.) (Interior Desigh) Part -III (Sem III& IV) under the Faculty of Inter-Disciplinary Studies.

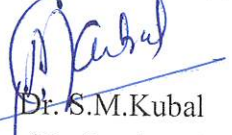
This syllabi and equivalence shall be implemented from the academic year 2024-2025 onwards. A soft copy containing the syllabi is attached herewith and it is also available on university website www.unishivaji.ac.in. (Students / Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2024 & March/April 2025. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,


Dr. S.M.Kubal
(Dy Registrar)

Copy to:

1	Director Board of Evaluation and Examination	9	Centre for Distance Education
2	The Dean, Faculty of IDS	10	Computer Centre
3	The Chairman, Respective Board of Studies	11	Affiliation Section (U.G.)
4	B.A.,B.Com., B.Sc. Exam	12	Affiliation Section (P.G.)
5	Eligibility Section	13	P.G.Admission Section
6	O.E. I, II, III, IV Section	14	Appointment Section
7	Dy.registrar (On Exam)	15	P.G.Seminar Section
8	Dy.registrar (Pre. Exam)	16	I.T.cell

SHIVAJI UNIVERSITY,
KOLHAPUR



UNDER THE FACULTY OF INTERDISCIPLINARY
STUDIES – (IDS)

AS PER THE NATIONAL EDUCATION POLICY -
NEP - 2020

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 2024-2025**

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

SHIVAJI UNIVERSITY, KOLHAPUR - NEP - 2020
THIRD YEAR - Bachelor of Design (B. Des) – Interior Design
Scheme of Teaching and Examination
Semester – V

Course (Subject Title)	Name of the Subject	TEACHING SCHEME						EXAMINATION SCHEME							
		THEORY			STUDIOS			CONTINUES INTERNAL EXAMINATION (CIE)		INTERNAL ORAL EXAMINATION (IOE)		EXTERNAL ORAL EXAMINATION (EOE)		END SEMESTER EXAMINATION (ESE)	
		Credits	No of Lectures	Hours	Credits	No of studios	Total Credit	Total Mark	Min	Total Mark	Min	Total Marks	Min	Total Marks	Min
CC 501	Int. Design - V	2	1	-	4	9	6	50	25	50	25	-	-	-	-
CC -502	Design Execution Drawing - I	2	2	-	4	8	6	50	25	50	25	-	-	-	-
CC-503	Interior Technology & Material – III	1	2	-	2	4	3	25	13	25	13	-	-	50	18
CC-504	Interior Services - III	1	2	-	2	2	3	25	13	25	13	-	-	50	18
CC-505	Estimating, Costing & Professional Practice - I	2	2	-	2	2	4	25	13	25	13	-	-	100	35
OE-506	Open Electives – V	-	1	-	2	1	2		-	50	25	-	-	-	-
			10			26	24	175		225				200	

Fifth Semester Total periods per week – 36
 (Note – each lecture / studio period is considered of 50 minutes)
 Total credits – 24

Total Marks – 600

Sem – V Any Two topics are compulsory to attempt for Credits for open electives from the following.

1. Graphic/ Communication Design
2. Photography
3. Office Accounting Etc.

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.

Note - Open Electives lectures per Sem will be 20 (those can be utilized as per the need of the syllabus of open Electives to be conducted or selected by the students.)

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

OE – Open Elective

SHIVAJI UNIVERSITY, KOLHAPUR - NEP - 2020
THIRD YEAR - Bachelor of Design (B. Des) – Interior Design
Semester – VI
Scheme of Teaching and Examination

Course (Subject Title)	Name of the Subject	TEACHING SCHEME						EXAMINATION SCHEME							
		THEORY			STUDIOS			CONTINUES INTERNAL EXAMINATION (CIE)		INTERNAL ORAL EXAMINATION (IOE)		EXTERNAL ORAL EXAMINATION (EOE)		END SEMESTER EXAMINATION (ESE)	
		Credits	No of Lectures	Hours	Credits	No of studios	Total Credit	Total Marks	Min	Total Marks	Min	Total Marks	Min	Total Marks	Min
CC 601	Int. Design - VI	1	1	-	4	7	5	50	25	50	25	100	50	-	-
DSC-602	Furniture Design - III	-	2	-	2	3	2	50	25	50	25	-	-	-	-
CC-603	Design Execution Drawing - II	1	1	-	2	5	3	50	25	50	25	100	50	-	-
CC-604	Interior Technology & Material – IV	1	1	-	2	4	3	25	13	25	13	-	-	50	18
CC-605	Interior Services - IV	1	1	-	2	2	3	25	13	25	13	-	-	50	18

CC-606	Estimating, Costing & Professional Practice - II	1	1	-	2	2	3	25	13	25	13	-	-	100	35
DSC-607	Synopsis	-	2	-	2	-	2	25	13	25	13	-	-	-	-
AECC - 608	Sustainable Design - I	1	1	-	1	2	1	25	13	25	13	-	-	-	-
OE- 609	Open Electives – VI	-	-	-	2	1	2	-	-	50	25	-	-	-	-
			10			26	24	275		325		200		200	

Sixth Semester Total periods per week – 36

1. A candidate should obtain min 35% marks in theory exam.

Total credits – 24

Total Marks – 1000

Sem – VI Any Two topics are compulsory to attempt for Credits for open electives from the following.

1.Presentation Software study for 2 D/ 3D

2.Animation Design

3.Exhibition Design 0

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.

Note - Open Electives lectures per Sem will be 20 (those can be utilized as per the need of the syllabus of Open

Electives to be conducted or selected by the students.)

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	6
2	CC-502	Design Execution Drawing - I	6
3	CC -503	Interior Technology & Material - III	3
4	CC- 504	Interior Services -III	3
5	CC -505	Estimating, Costing & Professional Practice - I	4
6	OE- 506	Open Elective- V	2
		Total Credit	24

Semester – VI

Sr No	Code No	Name of the Subject	Credit
1	CC -601	Int. Design – VI	5
2	DSC-602	Furniture Design-III	2
3	CC-603	Design Execution Drawing - II	3
4	CC- 604	Interior Technology & Material – IV	3
5	CC -605	Interior Services -IV	3
6	CC- 606	Estimating, Costing & Professional Practice – II	3
7	DSC- 607	Synopsis	2
8	AECC – 608	Sustainable Design – II	1
9	OE -609	Open Elective - VI	2
		Total Credit	24

❖ Student Contact Hrs Per week: 36 hrs	❖ Total Marks for B.Des Part – III - 1600
❖ Lecture / Studio period is of 50 minutes	❖ Total Credits for B.Des – Part- II – 48
❖ CC: Compulsory Course	
❖ AECC: Ability Enhancement Compulsory Course	
❖ DSC: Discipline Specific Core Course -	
❖ OE: Open Elective	
❖ AECC & GEC internal Evaluation should be done at Institute level	
❖ Practical workload will for batch of 20 students	
❖ There shall be separate passing for theory and practical courses.	
❖ Verification and Revaluation: Verification and Revaluation shall be permitted only in case of Written Papers.	
<p>Exit option: - The undergraduate program B. Des of Four Academic Years (Eight semesters) with multiple entry and multiple exit options</p> <ul style="list-style-type: none"> • The students can exit with certificate in a discipline or field after the completion of one-year Academic year (Two semesters) • Students can exit with Diploma after two academic years of (Four Semester) • Students can exit with Bachelor Degree after the completion of three Academic Year (Six Semesters) • Successful completion of four-year undergraduate program would lead a Bachelor Degree with Honor's / Research in Discipline/ Subject. Each semester shall consist of study with minimum of 90 working days. 	

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Interior Design –V	L	S	Credit
Course Code:	CC- 501	1	9	6

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:

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

- The course provides confidence to the students in developing creative ideas, with imaginative and practical approach.

Teacher Assessment:

Assessment	Marks	Pass
Continues Internal Evaluation	50	25
Internal Evaluation	50	25
End Semester Examination	-	-
External Evaluation	-	-

Course Contents:

The student will be able to:

Unit 1 Study of highly complex and complicated Design project of large scale up to 1000 Sqm and specialized multi- functional interior spaces like High end residential spaces, commercial spaces like shopping and entertainment malls, public spaces like Auditorium, museums, hospitals, Administrative buildings, hospitality spaces etc. With the help of presenting a drawing portfolio including sketches, full scale drawing and detailing, drawings for services provided, as per the requirement for design explanation etc.

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

Unit 3 Understand and discuss the interior environment in the context of the exterior for effective communication of design development.

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 etc.

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Design Execution Drawing – I	L	S	Credit
Course Code:	CC- 502	2	8	6

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 design execution drawing of One interior design project of residential, commercial, or public spaces.
- Explore computer tools for preparing the portfolios.
- Exploring & learning detail drawing for execution onsite
- Exploring various materials, services & its application through drawing for execution.
- The course provides confidence to the student to execute their innovative concepts in reality.

Teacher Assessment:

Assessment	Marks	Pass
Continues Internal Evaluation	50	25
Internal Evaluation	50	25
End Semester Examination	-	-
External Evaluation	-	-

Course Contents:

Unit 1 Preparing Working drawings and detailing of One interior design project in each semester (Preferably the student's own design project done in the third/ fourth semester.)

Unit 2 One residential project and other commercial project should be completed by the students and presented as portfolio. Portfolio should be done by computerized Drafting (including all types of layouts, like Furniture, ceiling, electrical, flooring, plumbing ,and services layouts, furniture details and other details if any ,required for projects execution as per the requirement .)

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 Design by Ralond Ashcroft.

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Interior Technology & Material – III	L	S	Credit
Course Code:	CC - 503	2	4	3

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:

Assessment	Marks	Pass
Continues Internal Evaluation	25	13
Internal Evaluation	25	13
End Semester Examination	50	18
External Evaluation	-	-

Course Contents:

- Unit 1 Metals:** Hardware, fittings and fixtures used in interior & exterior.
 sliding, openable metal door used in interior and exterior and Window Grill, staircase railing in Interior and exterior, Advanced materials and its constructions.
- Unit 2 Roofing:** definition, types of roof, requirements of good roof, technical terms used in roof, different roofing material, advantages and disadvantages
- 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 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
- Major part of this course will focus on market research so material's company website and their E- brochures should be referred by students.

SYLLABUS FOR B. Des – III SEMESTER – V

Title of the Course:	Interior Services - III	L	S	Credit
Course Code:	CC- 504	2	2	3

Course Description:

The course includes introduction to different advanced services used in interior project for buildings and high-rise structures. Enable the students to learn for better understanding of different services, amenities required in interior spaces.

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:

Assessment	Marks	Pass
Continues Internal Evaluation	25	13
Internal Evaluation	25	13
End Semester Examination	50	18
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- 505	2	2	4

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:

Assessment	Marks	Pass
Continues Internal Evaluation	25	13
Internal Evaluation	25	13
End Semester Examination	100	35
External Evaluation	-	-

COURSE CONTENTS: ESTIMATION COSTING

Unit 1 Introduction to subject.

Unit 2 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 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 Quantity survey of single & multi-items.

Unit 5 Preparation of estimate of Single & multi items using measurement sheet & abstract sheet.

Unit 6 Specifications: -

- Definition
- Objects, Importance, legal aspects of specifications.
- Use of Specifications
- Types of Specification
- Classification of specification.

COURSE CONTENT – PROFESSIONAL PRACTICE

Introduction to professionalism, design practice, working of design organization

Unit 1 Profession Practice and Different styles and ways of Interior Design practice

Unit 2 Professional preparation- Education preparation, professional association

Unit 3 Clients

Unit 4 Characteristics of Interior Designer.

Unit 5 Office Management

Unit 6 Fees of an Interior Designer

Unit 7 Staff and its Recruitment

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.

LIST OF OPEN ELECTIVES

Offered By
INTERIOR DESIGN

OE - 506 OPEN ELECTIVE

2 Credit

Sem – V Any Two topics are compulsory to attempt for getting marks & Credits from generic electives from the following.

1. Graphic/ Communication Design
2. Photography
3. Office Management & Accounting.

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.

Teacher Assessment:

Assessment	Marks	Pass
Continues Internal Evaluation	-	-
Internal Evaluation	50	25
End Semester Examination	-	-
External Evaluation	-	-

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 & Material - III

Total Marks: - 50

Duration: - 2 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. Draw neat sketches wherever necessary.

Q. 1	Question of design and drafting of concern topic. (Plan, elevation, section, etc. as specified.)	20
Q. 2	Write in brief or discuss following (Any two) A) B) C)	10
Q. 3	Write short notes (Any Two) A) B) C)	10
Q. 4	Describe the following (Any one) A) B)	10
Q. 5	Describe the following (Any one) A) B)	10

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	7	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:

- Explore professional design acumen with enhanced skill for planning interior Project.
- Emphasis on the relationship of space to the contextual environment, achieving design interpretations through client profile, case study & framing of requirements.
- Explore advanced knowledge for materials to be used, construction techniques, furniture & services while designing highly complex and complicated spaces.
- Discuss on décor how it enhances and reflect concept.
- Explore a variety of visual presentation techniques through hand skills & software skills.
- Explore verbal presentation skills to elaborate design projects through literature on Design.
- Design a large space for residential, Commercial & public spaces with the help of application of theory of Design & technical knowledge of services used.
- The course provides confidence to the students in developing creative ideas, with imaginative and practical approach.

Assessments:

Teacher Assessment:

Assessment	Marks	Pass
Continues Internal Evaluation	50	25
Internal Evaluation	50	25
End Semester Examination	-	-
External Evaluation	100	50

Course Contents:

The student will be able to:

- Unit 1** Study of highly complex and complicated Design project of large scale up to 1000 Sqm and specialized multi- functional interior spaces like High end residential spaces, commercial spaces like shopping and entertainment malls, public spaces like Auditorium, museums, hospitals, Administrative buildings, hospitality spaces etc. With the help of presenting a drawing portfolio including sketches, full scale drawing and detailing, drawings for services provided, as per the requirement for design explanation etc.
- Unit 2** Use a variety of drawing media to effectively communicate design solutions & design development.
- Unit 3** Understand and discuss the interior environment in the context of the exterior for effective communication of design development.

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 –III	L	S	Credit
Course Code:	DSC- 602	2	3	2

Course Description: Analyzing furniture forms and its design
 Analyzing furniture forms based on ergonomics, materials, designs and working parameters;
 Analyzing & studying critical nature of each and every. Dimension of furniture element, detail and its comfortable value with material used

Course Outcomes:

- Exploring Different furniture forms.
- Exploring & Learning Design furniture form based on ergonomics, materials, designs and working parameters;
- Studying & Learning preparing drawings for furniture details.

Teacher Assessment:

Assessment	Marks	Pass
Continues Internal Evaluation	50	25
Internal Evaluation	50	25
End Semester Examination	-	-
External Evaluation	-	-

Course Contents:

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

Unit 1 Study of ergonomics

Unit 2 Study of different forms of Furniture elements

Unit 3 Study of materials used

Unit 4 Study of Drawing / Detailing requirement for designing a furniture element.

Unit 5 Designing a small single furniture element with help of detail drawings, preparing making a prototype / model of designed furniture

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:

- Explore design execution drawing of One interior design project of residential, commercial, or public spaces.
- Explore computer tools for preparing the portfolios.
- Exploring & learning detail drawing for execution onsite
- Exploring various materials, services & its application through drawing for execution.
- The course provides confidence to the student to execute their innovative concepts in reality.

Teacher Assessment:

Assessment	Marks	Pass
Continues Internal Evaluation	50	25
Internal Evaluation	50	25
End Semester Examination	-	-
External Evaluation	100	50

Course Contents:

Unit 1 Preparing Working drawings and detailing of One commercial interior design project in this semester (Preferably the student's own design project done in the third/ fourth or in fifth semester.)

Unit 2 One commercial project should be completed by the students and presented as portfolio. Portfolio should be done by computerized Drafting (including all types of layouts, like Furniture, ceiling, electrical, flooring, plumbing, and services layouts, furniture details and other details if any, required for projects execution as per the requirement.)

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:	Interior Technology & Material – IV	L	S	Credit
Course Code:	CC- 604	1	4	3

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:

Assessment	Marks	Pass
Continues Internal Evaluation	25	13
Internal Evaluation	25	13
End Semester Examination	50	18
External Evaluation	-	-

Course Content:

- Unit 1** A.C.P. used as interior and exterior material,
 its types, sizes, fitting and fixtures, advantages and disadvantages
- Unit 2** Acoustics: different composite material, types and its implementation,
 acoustical partition, paneling, ceiling, etc
- Unit 3** Firefighting doors & window etc...
- Unit 4** Advance types of doors and their locking systems.
- Unit 5** Studio work - Actual site experiences and implementation of above
 Mentioned topics in design.
- Unit 6** Market surveys based on above mentioned different materials and related
 presentation.

References:

- Interior Design – Ahmed A Kasu
- Building Services & Equipment's by Fre derrick 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.
- Major part of this course will focus on market research so 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- 605	1	2	3															
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:																			
<ul style="list-style-type: none"> • 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:																			
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Assessment</th> <th style="text-align: center;">Marks</th> <th style="text-align: center;">Pass</th> </tr> </thead> <tbody> <tr> <td>Continues Internal Evaluation</td> <td style="text-align: center;">25</td> <td style="text-align: center;">13</td> </tr> <tr> <td>Internal Evaluation</td> <td style="text-align: center;">25</td> <td style="text-align: center;">13</td> </tr> <tr> <td>End Semester Examination</td> <td style="text-align: center;">50</td> <td style="text-align: center;">18</td> </tr> <tr> <td>External Evaluation</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>					Assessment	Marks	Pass	Continues Internal Evaluation	25	13	Internal Evaluation	25	13	End Semester Examination	50	18	External Evaluation	-	-
Assessment	Marks	Pass																	
Continues Internal Evaluation	25	13																	
Internal Evaluation	25	13																	
End Semester Examination	50	18																	
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, Principals & 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- 606	1	2	3

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:

Assessment	Marks	Pass
Continues Internal Evaluation	25	13
Internal Evaluation	25	13
End Semester Examination	100	35
External Evaluation	-	-

COURSE CONTENTS: ESTIMATING, COSTING

Unit 1 Introduction to subject.

Unit 2 Mode of measurement.

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

Unit 4 Different terms related to estimate

- Bill of Quantities
- Lump sum item and extra item
- Schedule of Rates
- Administrative approval
- Prime cost & Provisional sum

Unit 5 Specification

- Design of Specification Legal aspect of Specification
- Specifications writing

- Source of information for Specifications
- Points for Framing of Specifications

Unit 6 Rate analysis

Unit 7 Preparation of Estimate for large Interior Design Spaces.

Unit 8 Volumetric Estimate of residential buildings for Interior and furniture design. Studio-Preparation of tender document for large Interior Design Project and presentation of it.

COURSE DESCRIPTION – PROFESSIONAL PRACTICE

Introduction to professionalism, design practice, working of design organization

Course Contents:

Unit 1 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 .

Unit 2 Contract.

Unit 3 Site Management

Unit 4 Modern methods of management- Introduction -PERT/CPM, Necessity, systematic execution &, Management, Objectives of project management

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:	SYNOPSIS	L	S	Credit
Course Code:	DSC- 607	-	2	2

Course Description:

Students of Interior pursue their undergraduate Interior Design project thesis as Design through research. The whole course is divided into Three semesters of final year B.Des . in (Sem.6, Sem 7 & Sem 8)

Interior Design Project 1+2 gives the core idea about the topic of how the research will lead to the design. The whole course is divided into three parts.

1. Synopsis, literature review, framing project, and research methodology.
2. Data collection
3. Case study analysis and conclusions, Design Proposal

COURSE OBJECTIVES:

- To prepare a student to independently handle all aspects of Interior design from its evolution to the final outcome.
- To understand the evolutionary stages of design, process, importance etc. through rigorous literature review.
- To justify the whole project from topic selection to design outcome by practical and research approach.
- To deal the project through analysis, investigation and thoughtful synthesis of whole study.

COURSE OUTCOMES (COS):

At the end of the course the student should be able:

- To prepare a proposal which include introduction, need of the study, scope and limitations, Aim and objectives and project methodology.
- To Study, analyze, compile the data, information which is already available in the realm of Interior
- To enrich the knowledge through thoughtful Synthetization of literature review, case study conclusion and data collection in the form of design program.

Assessment	Marks	Pass
Continues Internal Evaluation	25	13
Internal Evaluation	25	13
End Semester Examination	-	-
External Evaluation	-	-

COURSE CONTENT:

Unit No. 1 – literature review

- Area of interest
- Topic selection Evolutionary journey/timeframe about topic
- Relevant examples, cases
- Identify the gap in contemporary
- Any other relevant literature useful for progress of project

Unit No. 2 – Writing proposal (Synopsis)

- Introduction
- Need/relevance of the project
- Literature review
- Scope and limitations
- Aim
- Objectives
- Project methodology
- Bibliography/ references

SESSIONAL WORK:

Synopsis (A4 Size) Sheets

- Graphical presentation of literature review, project methodology, aim, objectives, etc.
- Case study analysis and comparative conclusions

Report in spiral bound format includes chapters –

- Introduction
- Literature review
- Project methodology
- Case study analysis and conclusions
- Bibliography

SYLLABUS FOR B. Des – III SEMESTER – VI

Title of the Course:	Sustainable Design – I	L	S	Credit
Course Code:	AECC- 608	1	2	2

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
Continues Internal Evaluation	25	13
Internal Evaluation	25	13
End Semester Examination	-	-
External Evaluation	-	-

Course Contents:

Unit 1 Introduction to Sustainable Interior Design,

Unit 2 What is Sustainable Interior Design,

Unit 3 Concept of Sustainable Interior Design

Unit 4 Principles of Sustainable Interior Design

Unit 5 Sustainable materials used in Interiors.

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.

LIST OF OPEN ELECTIVES

Offered By
INTERIOR DESIGN

OE - 609 OPEN ELECTIVE

2 Credit

Sem – VI Any Two topics are compulsory to attempt for getting marks & Credits from generic electives from the following.

1. Presentation Software study for 2 D/ 3D
2. Animation Design
3. Exhibition Design

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.

Teacher Assessment:

Assessment	Marks	Pass
Continues Internal Evaluation	-	-
Internal Evaluation	25	13
End Semester Examination	-	-
External Evaluation	-	-

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 – VI
Sub- Interior Technology & Material - IV

Total Marks: - 50
Duration: - 2 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. Draw neat sketches wherever necessary.**

Q. 1	Question of design and drafting of concern topic. (Plan, elevation, section, etc. as specified.)	20
Q. 2	Write in brief or discuss following (Any two) A) B) C)	10
Q. 3	Write short notes (Any Two) A) B) C)	10
Q. 4	Describe the following (Any one) A) B)	10
Q. 5	Describe the following (Any one) A) B)	10

GENERAL 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) | |

GENERAL 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)	8
	A)	
	B)	
Q. 8	Workout the quantities required for the items of the sketch given. Prepare measurement and abstract	20

Grade chart of the course - Bachelor of Design (Interior)				
Pattern -	Semester - NEP 2020			
Course	Bachelor of Design			
part/Sem	(Interior) Sem 5			
Syllabus name -	Bachelor of Design (Interior) Sem 5			
Grade chart @ 50%				
Subject code	Subject name	Total credits	Max. Marks	Min. Marks
	Interior Design -V	6		
		Cont. internal Evaluation.	50	25
		Internal oral Evaluation.	50	25
		Total	100	50
	Design Execution drawing I	6		
		Cont. internal Evaluation.	50	25
		Internal oral Evaluation.	50	25
		Total	100	50
	Interior Technology & Material - III	3		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		End Semester Examination	50	18
		Total	100	50
	Interior Services - I	3		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		End Semester Examination	50	18
		Total	100	50
	Estimation Costing & Professional Practice - I	4		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		End Semester Examination	100	35
		Total	150	75
	Graphic/Communication Design	2		
		Internal oral Evaluation.	50	25
		Total	50	25
	Photography	2		
		Internal oral Evaluation.	50	25
		Total	50	25
	Office Accounting	2		
		Internal oral Evaluation.	50	25
		Total	50	25
Grand total			600	300

As Per Syllabus Aggregate required marks for passing - 300 OR 50%

Sr No.	Marks range	Percentage range	Grade points	Letter Grade
1	540 to 600	90% to 100%	10	O : Out Standing
2	480 to 539	80% to 89.99%	9	A+ : Excellent
3	420 to 479	70% to 79.99%	8	A : Very good
4	360 to 419	60% to 69.99%	7	B+ : Good
5	300 to 359	50% to 59.99 %	6	B : Above Average
6	1 to 299	1 to 49.99%	5	Fail
7	Absent	Absent	4	Ab : Absent

Grade chart of the course - Bachelor of Design (Interior)

Pattern - Semester
Course Bachelor of Design
part/Sem (Interior) Sem 6
Syllabus Bachelor of Design
name - (Interior) Sem 6

Grade chart @ 50%

Subject code	Subject name	Total credits	Max. Marks	Min. Marks
	Interior Design -VI	5		
		Cont. internal Evaluation.	50	25
		Internal oral Evaluation.	50	25
		External oral Evaluation.	100	50
		End Semester Examination	0	0
		Total	200	100
	Furniture Design - III	2		
		Cont. internal Evaluation.	50	25
		Internal oral Evaluation.	50	25
		External oral Evaluation.	0	0
		Total	100	50

	Design Execution drawing II	3		
		Cont. internal Evaluation.	50	25
		Internal oral Evaluation.	50	25
		External oral Evaluation.	100	50
		Total	200	100
	Interior Technology & Material - IV	3		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		End Semester Examination	50	18
		Total	100	50
	Interior Services - IV	3		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		End Semester Examination	50	18
		Total	100	50
	Estimation Costing & Professional Practice - II	3		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		End Semester Examination	100	35
		Total	150	75
	Synopsis	2		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		Total	50	25
	Sustainable Design - I	2		
		Cont. internal Evaluation.	25	13
		Internal oral Evaluation.	25	13
		Total	50	25
	Presentation Software study for 2 D/ 3D	2		
		Internal oral Evaluation.	50	25
		Total	50	25
	Animation Design	2		
		Internal oral Evaluation.	50	25
		Total	50	25
	Exhibition Design	2		
		Internal oral Evaluation.	50	25
		Total	50	25
		Total	1000	500
		Grand total of Sem 5 & 6	1600	800

As Per Syllabus**Aggregate required marks for passing - 500 OR 50%**

Sr No.	Marks range	Percentage range	Grade points	Letter Grade
1	900 to 1000	90% to 100%	10	O : Out Standing
2	800 to 899	80% to 89.99%	9	A+ : Excellent
3	700 to 799	70% to 79.99%	8	A : Very good
4	600 to 699	60% to 69.99%	7	B+ : Good
5	500 to 599	50% to 59.99 %	6	B : Above Average
6	1 to 499	1 to 49.99%	5	Fail
7	Absent	Absent	4	Ab : Absent

As Per Syllabus Aggregate required marks for passing - 800 OR 50%

Sr No.	Marks range	Percentage range	Grade points	Letter Grade
1	1440 to 1600	90% to 100%	10	O : Out Standing
2	1280 to 1439	80% to 89.99%	9	A+ : Excellent
3	1120 to 1279	70% to 79.99%	8	A : Very good
4	960 to 1119	60% to 69.99%	7	B+ : Good
5	800 to 959	50% to 59.99 %	6	B : Above Average
6	1 to 799	1 to 49.99%	5	Fail
7	Absent	Absent	4	Ab : Absent

Marks - 25				
Sr No.	Marks range	Percentage range	Grade points	Letter Grade
1	23 to 25	90% to 100%	10	O : Out Standing
2	20 to 22	80% to 89.99%	9	A+ : Excellent
3	18 to 19	70% to 79.99%	8	A : Very good
4	15 to 17	60% to 69.99%	7	B+ : Good
5	13 to 14	50% to 59.99 %	6	B : Above Average
6	1 to 12	1 to 49.99%	5	Fail
7	Absent	Absent	4	Ab : Absent

Marks - 50				
Sr No.	Marks range	Percentage range	Grade points	Letter Grade
1	45 to 50	90% to 100%	10	O : Out Standing
2	40 to 44	80% to 89.99%	9	A+ : Excellent
3	35 to 39	70% to 79.99%	8	A : Very good
4	30 to 34	60% to 69.99%	7	B+ : Good
5	25 to 29	50% to 59.99 %	6	B : Above Average
6	1 to 24	1 to 49.99%	5	Fail
7	Absent	Absent	4	Ab : Absent

Marks - 100				
Sr No.	Marks range	Percentage range	Grade points	Letter Grade
1	90 to 100	90% to 100%	10	O : Out Standing
2	80 to 89	80% to 89.99%	9	A+ : Excellent
3	70 to 79	70% to 79.99%	8	A : Very good
4	60 to 69	60% to 69.99%	7	B+ : Good
5	50 to 59	50% to 59.99 %	6	B : Above Average
6	1 to 49	1 to 49.99%	5	Fail
7	Absent	Absent	4	Ab : Absent