

**MANAV RACHNA INTERNATIONAL INSTITUTE OF
RESEARCH AND STUDIES**
(Deemed to be University under section 3 of the UGC Act,
1956)

**SCHOOL OF DESIGN
DEPARTMENT OF DESIGN
CURRICULUM
AND
SCHEME OF EXAMINATION
(BACHELOR OF SCIENCE- INTERIOR DESIGN &
DECORATION)
BATCH: 2023-26**

FOREWORD

This is to certify that this booklet contains the entire Curriculum and Scheme of Examination of Bachelor of Science –Interior Design & Decoration (B.sc (IDD) being offered at the School of Design of this University. This has been duly vetted and finally approved by the Academic Council of the University vide held on **05th AUGUST, 2023** and changes, if any deemed appropriate, shall be duly incorporated after the necessary approval by the Academic Council.

This Curriculum and Scheme of Examination of B.Sc. (IDD) shall be implemented w.e.f. AY 2023-24.

Date:

**PVC.Prof. (Dr.) Naresh Grover
Dean-Academics, MRIIRS**

CONTENTS

S.No	Contents	Page No.
1	Preamble	1
2	Vision and Mission	3
3	PEOs	4
4	POs and PSOs	5-6
5	Mapping of PEOs with POs and PSOs	7
6	Semester System and Choice Based Credit System	8-9
7	Study Scheme at Glance	10
8	Semester wise Study Scheme with contact hours, assigned credits and distribution of marks	13-19
9	Course Details/Contents	20-114
	○ Prerequisites	
	○ Course Outcomes	
	○ List of Text Books and Reference Books	
	○ Instructions for Paper Setting	
	○ Distribution of Continuous Evaluation Marks	
	○ Mapping of PEOs with POs and PSOs	

PREAMBLE

Creativity is the essence of Interior Design & Decoration. Interior Design is an art and process of designing and decorating the Interior spaces. Interior Design deals with the optimum utilization of space, physical comfort and visual enrichment. An Interior Designer can undertake projects that include arranging the basic layout of space within the building as well as projects that require understanding of Technical issues. Interior Design is now a specialized branch of the building industry. Interior Designer requires deep knowledge of style, new techniques and latest materials as a profession Interior Design offers great challenges and the sky's the limit.

It has been a long felt necessity to align higher education with the emerging needs of the economy so as to ensure that the graduates of the higher education system have adequate knowledge and skills for employment and entrepreneurship. The higher education system has to incorporate the requirements of various industries in its curriculum, in an innovative and flexible manner while developing a holistic and well-groomed graduate. The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of college/university education, leading to Bachelor of Vocation (B.Voc.) Degree with multiple exit and entry options to a Diploma/Advanced Diploma or Bachelors Degree, under the NSQF (National Skills Qualifications Framework).

To enhance the employability factor of the students, subjects such as Communication I, Autocad for Decorators, Estimating & Costing, 3D Studio Max, Entrepreneurship Development Programme, General Education Elective, Business Skill for Decorators, Field Placement, Visual Communication, Adobe Photoshop, Professional Practice, Internship & Practical Aspects of Project Management are an integral part of the curriculum.

To develop the future architect`s entrepreneurship skill and inclination, subjects such as Communication I, Estimating & Costing, Entrepreneurship Development Programme, General Education Elective, Business Skill for Decorators, Commercial

Decorating, Field Placement, Visual Communication, Professional Practice & Project Presentation and Practical Aspects of Project Management are a part of the curriculum.

With a major focus on the student's skill development to enhance his learning and employability in the job market, subjects such as AutoCAD for Decorators, Living Green, Design Thinking, Furniture Design, Visual Display Retail, 3D Studio Max, Visual Display and Adobe Photoshop are a part of the curriculum.

The course content is developed based on NVEQF (National Vocational Educational Qualification Framework), NSQF, CBCS (Choice Based Credit System), Industry requirements and achieves the following objectives in mind.

1. To develop a holistic personality by imparting human centric learning.
2. To impart skill-based education.
3. To promote Entrepreneurship among student

SCHOOL OF DESIGN

ABOUT THE DEPARTMENT

Faculty of Architecture & Design (SOD) is the design Faculty of MRIIRS which equips students with the competencies necessary for being creative professional Designers and Architects and exposes them to the aesthetic, technical, social, political and ethical dimensions of the designed built environment. Courses, seminars and workshops which run parallel to studios expose students to various other dimensions of design and architecture. SOD aims to foster an innovative and intellectually vibrant learning environment in the field. The quality of education offered matches the international standards of design education.

Presently department offers following programs:

- Bsc- ID (Bachelor of Science in Interior Design) 3 yr full time
- Bsc- IDD (Bachelor of Science in Interior Design & Decoration) 3 yr full time
- B.Design (Bachelor of Design) 4 yr full time with Interior design / VFX and Animation / communication design specializations

Gain access to a wide range of disciplines.

Ours is one of the leading design programs to offer degrees at the undergraduate and graduate within a top-ranked multidisciplinary research university. Located in Faridabad, Haryana, Manna Rachna is a unique place where design, arts, sciences, and humanities converge. We promote an integrated design process that incorporates perspectives from each of these disciplines.

You'll work with people at every point in their careers, with experience in fields as varied as journalism, engineering, fine arts, psychology, business—and of course, design. You'll also have the opportunity to build a strong and diverse professional network with others who are among the best in their fields.

A solid foundation for next steps.

At its heart, design is about solving problems. It's no wonder businesses and institutions are embracing the value of design, and the demand for design professionals has never been greater. Organizations are actively seeking new approaches to problem solving in the face of escalating business, social, and environmental challenges.

Our programs prepare you for top jobs in leading companies and organizations today, while teaching you to design with future generations in mind. In recent

rankings of design schools based on career outcomes, our programs consistently come out on top. Our alumni go on to some of the most desirable positions in the field, with multinational companies, design firms, and nonprofits. Some become design researchers and educators, and many start their own businesses. The career possibilities—and your potential to make an impact on the world—are limited

MRPERS

BACHELOR OF SCIENCE- INTERIOR DESIGN & DECORATION

VISION- *DESIGN YOUR CREATIVE FUTURE AT MANAV RACHNA*

The vision of School of Architecture & Design, MRIIRS is to enhance, consolidate & revitalize the thought process of design, thus evolving strong knowledge base that is progressive and dynamic and which is more relevant to the evolving socioeconomic and geographical context.

MISSION

- M1 At SOD, we're not anticipating the future. We're creating it**
SOD students go beyond aesthetic and technical expertise to think about their work and its effects on others. Our graduate Programs-all remarkably diverse in their area of emphasis, methods of teaching and curricula-stress this core sensibility while pushing students to create meaningful work.
- M 2 At SOD we help you go out in the world**
At the Design Centre's highly respected Sponsored projects program engages corporations both domestically and internationally who wants to explore the future of design through the fresh perspective of students.
- M3 Connecting good design to the outside world**
Design shop will provide a testing ground for validating the design idea developed by SOD students/faculty/technical staff through direct consumer feedback. This will encourage more people to visit the school public interface areas like Design Gallery, Shops etc., thereby getting directly or indirectly exposed to Design.
- M4 At SOD Centre, learning extends to everybody**
Serving as a gateway to the College's degree programs, public programs will offer a wide range of hands-on course for everything from advertising to zine making. The college's extension courses will offer classes to anyone seeking an access point to Design Centre's vast creative resources.

PROGRAMME EDUCATION OUTCOMES – BSC IDD

- PEO1. Should be able to stimulate artistic sensitivity and apply theories of human behavior to human- centered design solutions.
- PEO2. Strengthen intellectual growth and the capacity to develop creative and responsible solutions to unique and changing interior spaces.
- PEO3. Acquire leadership capabilities necessary for the competent practice of interior design and lifelong learning..
- PEO4. Pursue advanced education, research and development, and other creative and innovative efforts in the field of Interior design.

PROGRAMME OUTCOMES – BSC IDD

- PO1. Interior design knowledge:** Incorporate a global perspective when making design decisions, based on sustainable, socio-economic and cultural contexts.
- PO2. Problem analysis:** Analyze interiors, architecture, the decorative arts, and art within historical and cultural context to inform contemporary design solutions
- PO3. Design/development of Interior design solutions:** synthesize theories and concepts of spatial definition and organization into multi-dimensional design solutions.
- PO4. Conducting Investigation of Complex Interior design Problems:** Apply the design process to generate creative solutions to complex problem optimizing the human experience within the interior environment.
- PO5. Modern tool usage:** Create, select, and apply theory, psychology and methodology of colour to design of the interior environment with an understanding of the limitations.
- PO6. The Interior Designer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional interior designer practice.
- PO7. Environment and sustainability:** Apply principle of lighting, acoustics, thermal comfort, and indoor air quality as required to enhance the health, safety, welfare and performance of building occupants

PO8.Ethics: Recognize the ethical and professional responsibilities and the norms of Interior designer practice.

PO9.Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10.Communication: Communicate complex ideas clearly to specialists and non-specialists through appropriate oral, written and representational media.

PO11.Project management and finance: Comply with laws, codes and standards that impact fire safety and life safety. Produce construction drawings and documents using industry standards for variety of interior spaces.

PO12.Life-long learning: Exemplify accepted standards of professionalism and business practice including a commitment to engage in lifelong learning.

PROGRAMME SPECIFIC OUTCOMES

PSO1.Ability to enhance creative design skills in attaining design solutions in interior environment.

PSO2.To understand and specify furniture, fixtures, equipments and finish materials to meet the design criteria for a variety interior space.

Mapping of PEOs, POs & PSOs

POs / PSOs PEOs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
PEO 1	3	3	3	3	3	1	1	-	1	2	3	3	3	3
PEO 2	2	3	3	2	2	2	3	3	3	3	3	2	3	2
PEO 3	3	3	2	3	3	2	1	1	1	1	2	1	3	2
PEO 4	3	3	3	3	3	1	2	1	1	2	2	1	2	3

Choice Based Credit System

Credit based system of study and student's performance/progress is measured by the number of credits that he/she has earned, i.e. completed satisfactorily. Based on the course credits and grade obtained by the student, grade point average is calculated

(a) Course credits assignment

Each course has a certain number of credits assigned to it depending upon its duration in periods for lecture, tutorial, practical and studio in a week. A few courses/activities are without credit (s) and are referred to as Audit Pass Courses (APC) but are mandatory to pass as a partial fulfillment of award of degree.

(b) Earning of credits

At the end of every course, a letter "Grade" shall be awarded in each course for which a student has registered. On obtaining a minimum Pass Grade, student shall accumulate the course credits as Earned Credits. A student's performance shall be measured by the number of credits that he/she has earned and by the weighted grade point average. Grades obtained in the audit courses shall not be counted for computation of grade point average, however shall be mandatory to pass as a partial fulfillment of award of degree.

For Award of Degree of a programme **Bachelor of Science – Interior Design & Decoration**

He/she has to earn minimum **120credits** during the **3-year duration** of the programme **in 6 semesters**.

The total credits required to be earned have been further classified under two baskets of courses: "Compulsory Courses Basket", and "Elective Courses Basket".

The **total credits 96 required** to be earned under "**Compulsory Courses Basket**" and **24 credits** under "**Elective Courses Basket**".

All courses under "Compulsory Courses Basket", are required to be qualified and cleared/pass by each and every students enrolled under the programme and are

semester-wise listed in the study scheme along with credits assigned to each course.

Under Elective Courses Basket, there will be three types of courses:

- Semester-wise courses offered by the department itself
- Open/Inter-disciplinary courses offered at the Institute/University level notified from the office of Dean-Academics.
- Massive Open Online Courses (MOOCs) available on SWAYAM Platform or any other platform as recommended by UGC/AICTE and notified from the office of Dean-Academics.

Each course shall have credits assigned to it. Student shall be required to register courses every semester for as many courses/credits specified under “Elective Courses Basket” depending upon his/her interest, capability/pace of learning and availability of time slot (without any clash in time table) so as to earn all required total credits under the “Elective Courses Basket” during the entire programme duration.

However, for registration of courses [including courses under “Compulsory Courses Basket”, “Elective Courses Basket” and Previous Semester Courses (wherein he/she was declared in-eligible on the basis of attendance or he/she could not clear the course within permissible given chances)], if any, the maximum limit in a semester shall be 30 credits.

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SCHOOL OF DESIGN

DEPARTMENT OF ARCHITECTURE & DESIGN

BACHELOR OF SCIENCE- INTERIOR DESIGN & DECORATION (STUDENT BATCH- 2023-26)

SEMESTER- 01

Course Type	Course Code	Title of Course	Periods/Week					CONTINUOUS ASSESSMENT	END SEM EXAM	TOTAL	Duration and mode of Exam	Credits
			L	T	P	S	Total					
COMPULSORY COURSE												
	BIDD-DS-151	Design Fundamental	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-152	Drafting skills	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-153	Interior Design and Basics	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-154	Drawing techniques - I	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-101	History of Interior design- I	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2
	BIDD-DS-102	Materials and techniques - I	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2
	CDC-SOD-111	Professional Communication-I	2	0	0	0	2	50	50	100	1.5 Hours Theory Examination	2
							22			700		14

Under Elective Courses, beside the mentioned Domain Specific Elective Courses, other Inter-disciplinary, Generic, on-line Courses (MOOCs etc.) and other approved courses shall be offered, which shall be notified well before start of the semester. The student shall be required and allowed to opt the courses out of offered courses as per maximum limit for maximum credits and for the category of Elective Courses under University Rules. Students have to complete 120 credits in 3 years, out of which 96 credits are from domain specific, rest from domain electives, open electives and MOOC's.

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BACHELOR OF SCIENCE- INTERIOR DESIGN & DECORATION (STUDENT BATCH- 2023-26)

SEMESTER- 02

Course Type	Course Code	Title of Course	Periods/Week					CONTINUOUS ASSESSMENT	END SEM EXAM	TOTAL	Duration and mode of Exam	Credits
			L	T	P	S	Total					
COMPULSORY COURSE												
	BIDD-DS-251	Layout and Planning	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-252	Digital Representation - I	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-253	Drawing techniques - II	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-254	Building Material and Construction Techniques-I	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-201	History of Interior design- II	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2
	BIDD-DS-202	Materials and techniques - II	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2
	BIDD-DS-203	Interior Styling and Accessories	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2
	CDC-SOD-112	Professional Communication-II	2	0	0	0	2	50	50	100	1.5 Hours Theory Examination	0
	CH-202B	Environmental Studies	3	0	0	0	4*	100	100	200	2 Hours Theory Examination	4
							24			1000		18

Under Elective Courses, beside the mentioned Domain Specific Elective Courses, other Inter-disciplinary, Generic, on-line Courses (MOOCs etc.) and other approved courses shall be offered, which shall be notified well before start of the semester. The student shall be required and allowed to opt the courses out of offered courses as per maximum limit for maximum credits and for the category of Elective Courses under University Rules. Students have to complete 120 credits in 3 years, out of which 96 credits are from domain specific, rest from domain electives, open electives and MOOC's.

* 1 credit will be given for field study in Environmental Studies subject

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BACHELOR OF SCIENCE- INTERIOR DESIGN & DECORATION (STUDENT BATCH- 2023-26)

SEMESTER- 03

Course Type	Course Code	Title of Course	Periods/Week				Total	CONTINUOUS ASSESSMENT	END SEM EXAM	TOTAL	Duration and mode of Exam	Credits
			L	T	P	S						
COMPULSORY COURSE												
	BIDD-DS-351	Interior Design Studio-I	0	0	0	4	4	50	50	100	3 Hours Practical Examination	4
	BIDD-DS-352	Building Material and Construction Techniques-II	0	0	0	4	4	50	50	100	3 Hours Practical Examination	4
	BIDD-DS-353	Kitchen & Bathroom Design	0	0	0	3	3	50	50	100	3 Hours Practical Examination	3
	BIDD-DS-354	Visual Merchandising	0	0	0	3	3	50	50	100	3 Hours Practical Examination	3
	BIDD-DS-301	Lighting Design	3	0	0	0	3	50	50	100	2 Hours Theory Examination	3
	CDC-SOD-211	Placement Competency Enhancement-I	2	0	0	0	2	50	50	100	1.5 Hours Theory Examination	1
							19			600		18
ELECTIVE COURSE*												
	BDES-AN-354	Digital Illustration-I	0	0	0	2	2	100	100	200	3 Hours Practical Examination	2
	BDES-ID-355	Introduction to Photography	0	0	0	2	2	100	100	200	3 Hours Practical Examination	2
<p>* Under Elective Courses, beside the mentioned Domain Specific Elective Courses, other Inter-disciplinary, Generic, on-line Courses (MOOCs etc) and other approved courses shall be offered, which shall be notified well before start of the semester. The student shall be required and allowed to opt the courses out of offered courses as per prescribed limit for maximum credits in a semester and for the category of Elective Courses under University Rules. Students have to complete 120 credits in 3 years, out of which 96 credits are from domain specific, rest from domain electives, open electives and MOOC's.</p>												

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BACHELOR OF SCIENCE- INTERIOR DESIGN & DECORATION (STUDENT BATCH- 2023-26)

SEMESTER- 04

Course Type	Course Code	Title of Course	Periods /Week	L	T	P	S	To tal	CONTIN UOUS ASSESS MENT	END SEM EXAM	TO TAL	Duration and mode of Exam	Credi ts
COMPULSORY COURSE													
	BIDD-DS-451	Interior Design Studio -II	0	0	0	4	4	50	50	100	3 Hours Practical Examination	4	
	BIDD-DS-452	Building Material and Construction Techniques-III	0	0	0	3	3	50	50	100	3 Hours Practical Examination	3	
	BIDD-DS-453	Furniture Design - I	0	0	0	3	3	50	50	100	3 Hours Practical Examination	3	
	BIDD-DS-454	Digital Representation - II	0	0	0	3	3	50	50	100	3 Hours Practical Examination	3	
	BIDD-DS-401	Sustainable Design	3	0	0	0	3	50	50	100	2 Hours Theory Examination	3	
	BIDD-DS-402	Business Basics	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2	
	CDC-SOD-212	Placement Preparatory	2	0	0	0	2	50	50	100	1.5 Hours Theory Examination	0	
							20			700		18	
ELECTIVE COURSE*													
	BDES-CD-457	Trend Research and Forecasting	0	0	0	2	2	50	50	100	3 Hours Practical Examination	2	
	BDES-AN-454	Motion Art - I	0	0	0	2	2	50	50	100	3 Hours Practical Examination	2	
Summer Internship**													3
<p>Under Elective Courses, beside the mentioned Domain Specific Elective Courses, other Inter-disciplinary, Generic, on-line Courses (MOOCs etc) and other approved courses shall be offered, which shall be notified well before start of the semester. The student shall be required and allowed to opt the courses out of offered courses as per prescribed limit for maximum credits in a semester and for the category of Elective Courses under University Rules. Students have to complete 120 credits in 3 years, out of which 96 credits are from domain specific, rest from domain electives, open electives and MOOC's.</p>													
<p>** Students will have to complete their 4 weeks of internship after the completion of 4th Semester and the credits will be earned for the Summer Internship in the 5th semester</p>													

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BACHELOR OF SCIENCE- INTERIOR DESIGN & DECORATION (STUDENT BATCH- 2023-26)

SEMESTER- 05

Course Type	Course Code	Title of Course	Periods /Week					CONTINUOUS ASSESSMENT	END SEM EXAM	TOTAL	Duration and mode of Exam	Credits
			L	T	P	S	Total					
COMPULSORY COURSE												
	BIDD-DS-551	Summer Internship	0	0	0	3	0	100	100	200	Viva	3**
	BIDD-DS-552	Interior Design Studio -III	0	0	6	0	6	50	50	100	3 Hours Practical Examination	3
	BIDD-DS-553	Furniture Design - II	0	0	0	3	3	50	50	100	3 Hours Practical Examination	3
	BIDD-DS-554	Digital Representation - III	0	0	0	3	3	50	50	100	3 Hours Practical Examination	3
	BIDD-DS-555	Portfolio Development	0	0	4	0	4	50	50	100	3 Hours Practical Examination	2
	BIDD-DS-501	Service design	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2
	BIDD-DS-502	Estimation and Costing	2	0	0	0	2	50	50	100	2 Hours Theory Examination	2
	CDC-SOD-311	Placement Competency Enhancement-II	2	0	0	0	2	50	50	100	1.5 Hours Theory Examination	1
							22			900		16
ELECTIVE COURSE*												
	BDES-CD-556	Introduction to Web Design	0	0	0	2	2	100	100	200	3 Hours Practical Examination	2
	BDES-AN-555	Digital Illustration - II	0	0	0	2	2	100	100	200	3 Hours Practical Examination	2
<p>*Under Elective Courses, beside the mentioned Domain Specific Elective Courses, other Inter-disciplinary, Generic, on-line Courses (MOOCs etc) and other approved courses shall be offered, which shall be notified well before start of the semester. The student shall be required and allowed to opt the courses out of offered courses as per prescribed limit for maximum credits in a semester and for the category of Elective Courses under University Rules. Students have to complete 120 credits in 3 years, out of which 96 credits are from domain specific, rest from domain electives, open electives and MOOC's.</p>												
<p>** Students will have to complete their 4 weeks of internship after the completion of 4th Semester and the credits will be earned for the Summer Internship in the 5th semester</p>												

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SEMESTER- 06

Course Type	Course Code	Title of Course	Periods/Week						CONTINUOUS ASSESSMENT	END SEM EXAM	TOTAL	Duration and mode of Exam	Credits
			L	T	P	S	Total						
COMPULSORY COURSE													
	BIDD-DS-651	Interior Design Thesis	0	0	0	8	9*	100	100	200	3 Hours Practical Examination	9	
	BIDD-DS-601	Professional practices	3	0	0	0	3	50	50	100	2 Hours Theory Examination	3	
							3			300		12	
ELECTIVE COURSE*													
	BDES-AN-654	Fundamental of Audio & Video Editing Lab	0	0	0	2	2	100	100	200	3 Hours Practical Examination	2	
	BDES-CD-657	Corporate Branding	0	0	0	2	2	100	100	200	3 Hours Practical Examination	2	
<p>* Under Elective Courses, beside the mentioned Domain Specific Elective Courses, other Inter-disciplinary, Generic, on-line Courses (MOOCs etc) and other approved courses shall be offered, which shall be notified well before start of the semester. The student shall be required and allowed to opt the courses out of offered courses as per prescribed limit for maximum credits in a semester and for the category of Elective Courses under University Rules. Students have to complete 120 credits in 3 years, out of which 96 credits are from domain specific, rest from domain electives, open electives and MOOC's.</p>													
<p>* 1 credit will be given for field study in Interior Design Thesis Project</p>													

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BIDD-DS-151: DESIGN FUNDAMENTAL

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S:0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:3 Hrs				END SEM.EXAM: 50	
Pre-requisites: None					
Course Type: Program Core					

Course Outcomes

The student will be able to

BIDD-DS-151.1: define basic Elements & Principles.

BIDD-DS-151.2: classify designs on the basis of cultural differences and similarities.

BIDD-DS-151.3: develop a concept from a project topic.

BIDD-DS-151.4: analyze components of historical and modern changes across the world.

BIDD-DS-151.5: interpret their own designs using descriptive language.

BIDD-DS-151.6: modify various interior elements by using sustainable materials and techniques.

PART-A

Unit 1: Elements of Design

- Point, line, volume, shape, texture & color – in relation to light, pattern etc. and application of the same in designing interiors.

Unit 2: Principles of Design

- Ratio; proportions – golden section; relationships; scale; Balance – symmetrical, radial, harmony; unity; variety; rhythm; emphasis.

Unit 3: Gestalt Theory

- Gestalt's Principles of design
- Using Gestalt Psychology in Interior Design

PART-B

Unit 4: Color Theory

- Color Fundamentals
- Color Schemes
- Color Psychology

Unit 5: Name different styles and describe their evolution and influences in our society.

- Explain the key components that make up a style
- Evaluate historical accomplishments and modern changes to environments across the globe
- Predict what future trends and opportunities exist

Unit 6: Provide examples of how design elements and principles are used in a variety of creative fields.

- Acknowledge design strategies utilized in interiors, architecture, landscaping, advertising, photography, art, fashion, etc.
- Describe types of issues that may arise when transforming a concept into a finished piece of work
- Discuss standards for excellence and creative ingenuity among disciplines
- Prepare and articulate your own design concept using descriptive language

Text Books/ Reference Books:

1. Karla J. Nielson and David A Taylor, 2002, Interiors An Introduction,3rd edition, Publishers-Mcgraw-Hill College.
2. Maureen Mitton, 28 February 2012, Interior Design Visual Presentation, A Guide to Graphics , Models and Presentation Techniques,4th edition, John Wiley & Sons.

Software required/Weblinks:

NONE

Instructions for paper setting: **Seven questions are to be set in total. First question will be conceptual covering the entire syllabus and will be compulsory to attempt. Three questions will be set from each part 'A' and part 'B'. Students need to attempt two questions out of three from each part. Each question will be of 8 marks.**

Assessment Tools:

Assignment/Tutorials

Sessional tests

Surprise questions during lectures/Class Performance

Term end examination (THEORY)

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
BIDD-DS-151.1	2	3	–	1	–	–	–	–	2	2	–	1	1	–
BIDD-DS-151.2	1	3	1	1	1	2	1	1	–	1	–	–	–	2
BIDD-DS-151.3	1	2	3	2	1	–	–	1	1	2	1	1	1	–
BIDD-DS-151.4	1	3	–	2	1	1	1	–	1	1	–	–	–	–
BIDD-DS-151.5	–	1	2	1	3	–	–	–	1	3	1	–	2	–
BIDD-DS-151.6	–	–	1	–	1	–	3	–	–	–	2	–	–	2

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

(Deemed to be University under section 3 of the UGC Act 1956)

BIDD-DS-152: DRAFTING SKILLS

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S: 0	2	CONTINUOUS EVALUATION: 50
Duration of Examination: 3 Hrs					END SEM. EXAM: 50
Pre-requisites: None					
Course Type: Program Core					

Course Outcomes**The student will be able to**

BIDD-DS-152.1: Select the drawing tools and accessories used in drafting and lettering techniques.

BIDD-DS-152.2: Demonstrate geometrical shapes and projection with the help of engineering scale and free hand sketches.

BIDD-DS-152.3: Develop measured drawings of spaces using an imperial scale indicating the appropriate dimension notations, industry standards such as line weights, symbols, reference bubbles, titles.

BIDD-DS-152.4: Distinguish between the professional presentations either as rendered presentation drawings for clients, or measured and dimensioned working drawings for contractors.

BIDD-DS-152.5: Explain how to calculate the quantity of space.

BIDD-DS-152.6: Create a wide variety of textures to be used on plans and elevations and provide visual identification.

PART- A**Unit 1: Set up manually drafted drawings on the appropriate paper using correct scale**

- 1.1 Identify drafting equipment from kit
- 1.2 Utilize proper equipment to create drafted drawings

Unit 2: Basics of Geometric form

- 2.1 Lines and line weight
- 2.2 Basics of 2D geometric Shapes
- 2.3 2D Compositions

Unit 3: 3D Formation

- 3.1 Basic and complex 3D Compositions
- 3.2 Different ways of presentation of solids in 3D projections - Isometric Projections & Axonometric Projections
- 3.3 Surface Development

PART- B**Unit 4: Demonstrate the correct use of a measuring tape and create working sketches for drafting plans.**

- 4.1 Obtain accurate measurements using measuring tape.
- 4.2 Accurately record measurements of space and items on rough room outline.

Unit 5: Draft accurate floor plans and elevations using appropriate scale

- 5.1 Create correct lines using appropriate dimensions
- 5.2 Calculate exact measurements and apply to drawings using an imperial scale

Unit 6: Draft 3D view using appropriate scale

- 6.1 utilize the plan and elevation and create 1 point perspective view of the same

Text Books/ Reference Books:

1. [Karla Nielson](#) & [David Taylor](#), 2009, Interiors: An Introduction, Edition 4 (illustrated), Publishers- McGraw-Hill Companies, Incorporated, 2006.
2. N.D. Butt, 2014, Engineering Drawing, Publishers- Charter Publication.
3. Diana Bennett Wirtz, 2014, Hand Drafting for Interior Design, 2nd Edition, Bloomsbury Publishing India Private Limited.
4. Francis D. K. Ching, 1 January 2009, Architectural Graphics 5th edition, Publisher/Edition: John Wiley/2009 ISBN No. 978-0470399118
5. Francis D. K. Ching, 2018, Interior Design Illustrated, 4th Edition, John Wiley & Sons, 2018, ISBN 111937720X, 9781119377207

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Instructions for paper setting: The subject will be assessed through a practical examination.

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
BIDD-DS-152.1	-	-	-	-	3	-	-	-	2	2	-	3	1	1
BIDD-DS-152.2	-	1	-	-	-	-	-	1	2	2	1	3	1	1
BIDD-DS-152.3	1	-	-	-	1	-	-	2	2	3	3	3	2	2
BIDD-DS-152.4	-	3	1	-	1	-	-	1	1	2	3	3	3	2
BIDD-DS-152.5	1	1	-	1	3	-	-	1	1	1	3	3	1	2
BIDD-DS-152.6	1	-	-	1	3	1	-	1	1	3	3	2	3	3

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

(Deemed to be University under section 3 of the UGC Act 1956)

BIDD-DS-153: Interior Design and Basics

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S:0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:				3	END SEM.EXAM: 50
Hrs					
Pre-requisites: None					
Course Type: Program Core					

Course Outcomes

BIDD-DS-153.1: The student will be able to understand the methods of drawing.

BIDD-DS-153.2: The student shall be able to categorize various elements of design.

BIDD-DS-153.3: The student shall be able to apply various rendering techniques.

BIDD-DS-153.4: The student will be able to identify different color schemes.

BIDD-DS-153.5: The student will be able to classify the application of color through various mediums.

BIDD-DS-153.6: The student will be able to develop full rendered drawing for presentation.

Unit 1: Introduction to Design

- What is design
- Importance of design
- Difference between interior designer, stylist and architect
- Research on National and International Interior designers and architects

Unit 2: Role of Concept and Inspiration in design

- Different types of inspiration
- Extraction of elements and proper ways of utilizing elements in design
- Concept board and concept writeup

Unit 3: Design Thinking

- What is Design Thinking
- Role and Importance of design thinking
- Five Stages of Design Thinking

Unit 4: Design presentation and execution

- Concept and Mood Boards
- Material Board
- Bubble diagram
- Interior Projects Pipeline and execution

Unit 5: Role of Anthropometry in Design

- Static and Functional anthropometry
- Importance of Anthropometric data
- Anthropometry detailed Data

Unit 6: Role of Ergonomics in Design

- Importance of Ergonomics in Interior Design
- 4 Principles Of Ergonomic Interior Design
- Ergonomic Detailed Data

Note: Render a professional visually correct and balanced composition by using all elements and fundamentals as demonstrated during class, lectures and in class exercises.

λ select appropriate materials and equipment to illustrate, furniture, finishes and ambience of the design.

λ measure objects accurately using ratio analysis

λ shade properly obtaining maximum gradations
λ evaluate absence of drawing contrast and detail
λ understand the effects of light and how to achieve mass, volume,
λ create exciting concept renderings through use of cropping, view selection and focal point analysis.
λ create professional concept renderings using marker techniques, parallel line, colour and overlays.
λ prepare drawings for scheduled critiques.
λ Mount artwork and prepare a portfolio for a formal presentation.

Text Books/ Reference Books:

1. Helen Bowers, March 2005, *Interior Materials & Surface – The Complete Guide*, Firefly Books Ltd.
2. John Montague, February 2013, *Basic Perspective Drawing – Visual Guide, 6th edition*, ISBN: 978-1-118-41412-5, John Wiley & Sons.

Instructions for paper setting: The subject will be assessed through a practical examination.

Seven questions are to be set in total. First question will be conceptual covering entire syllabus and will be compulsory to attempt. Three questions will be set from each Part A and Part B (one from each unit). Student needs to attempt two questions out of three from each part. Each question will be of 20 marks.

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
BIDD-DS-153.1:	2	2	2	2	2	2	2	2	2	1	3	3	2	2
BIDD-DS-153.2:	1	2	2	2	2	2	2	2	2	2	2	2	1	1
BIDD-DS-153.3:	2	2	2	2	3	3	3	2	2	2	2	2	2	2
BIDD-DS-153.4:	2	2	2	2	2	3	2	2	2	2	2	2	2	2
BIDD-DS-153.5:	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BIDD-DS-153.6:	1	2	2	2	2	2	1	2	2	1	2	2	2	2

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BIDD-DS-154: Drawing techniques - I

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S:0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:				3	END SEM.EXAM: 50
Hrs					
Pre-requisites: None					
Course Type: Program Core					

Course Outcomes

- BIDD-DS-154.1:** The student will be able to understand the methods of drawing.
BIDD-DS-154.2: The student shall be able to categorize various elements of design.
BIDD-DS-154.3: The student shall be able to apply various rendering techniques.
BIDD-DS-154.4: The student will be able to identify different color schemes.
BIDD-DS-154.5: The student will be able to classify the application of color through various mediums.
BIDD-DS-154.6: The student will be able to develop full rendered drawing for presentation.

Part A

Unit 1: Color & Render

- Gradation Scale: Tones, Rendering Basics, Effect of Light Source
- Contrast & Values: Composing black & whites, Value of gray, 2-D & 3-Dimensional effect
- Rendering – Mediums: Intro to dry pastels, Intro to Watercolors

Unit 2: Material and textures

- Drawing Basics: Point & Line, Shape & Forms, Textural value

Unit 3: Rendering Techniques

- Rendering – Interior Space: Composing Space, Incorporate materials' rendering, Light Source
- Rendering – Metal & Glass: Material Effect, Rendering Metal, Rendering Glass
- Rendering – Furniture: Material Effect, Rendering Wood and Furniture

Part B

Unit 4 Creative art exercises

- Different type of art styles and sketching techniques
- Conceptual art rendered sketches

Unit 5: Freehand interior accessories sketches

- Introduction to drawing Perspectives
- Freehand 1 point perspective of simple shapes and Interior accessories

Unit 6: Freehand 2d plans

- 2D rendered plans of indoor and outdoor interior spaces

Note: Render a professional visually correct and balanced composition by using all elements and fundamentals as demonstrated during class, lectures and in class exercises.

λ select appropriate materials and equipment to illustrate, furniture, finishes and ambience of the design.

154.4:														
BIDD- DS- 154.5:	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BIDD- DS- 154.6:	1	2	2	2	2	2	1	2	2	1	2	2	2	2

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(Deemed to be University under section 3 of the UGC Act 1956)

BIDD-DS-101: HISTORY OF INTERIOR DESIGN -I

Periods/week		Credits	Max. Marks: 100
L: 2	T: 0	P: 0	2
Duration of Examination:			3
Hrs			END SEM.EXAM: 50
Pre-requisites: None			
Course Type: Program Core			

Course Outcomes

The student will be able to

- BIDD-DS-101.1: Understand** the Growth and progression in the historical field of Interior Design
- BIDD-DS-101.2: Analyze** the interior culture and furniture of Non - European countries
- BIDD-DS-101.3: Define** Interior design styles and their evolution
- BIDD-DS-101.4: Discover** the work of Legendary Designers and their contribution ti interior design
- BIDD-DS-101.5: conclude** formal presentation on the basis of gathered information.
- BIDD-DS-101.6: improve** design proposals and presentation with reference to Period furniture.

PART-A

Unit 1: INTRODUCTION TO THE ROLE AND IMPORTANCE OF HISTORY IN THE INTERIOR DESIGN PROFESSION.

- Growth and progression in the historical field of Interior Design (Primitive beginning from Stone age to Neolithic age)
- CLASSIFICATION OF PERIODS IN SPATIAL DESIGN
 - PRE-HISTORIC: living spaces and primitive designs
 - ANCIENT WORLD: Ancient Europe, Ancient Greece, Ancient Rome.
 - MIDDLE AGES: Gothic
 - RENAISSANCE: Early Renaissance, High Renaissance and Baroque.

Unit 2: Non-European Traditions

- Islamic World
- Interiors in China & Japan
- Influences of Pre-Columbian American art & culture, African influences in interiors

Unit 3: INTERIOR DESIGN STYLES AND THEIR EVOLUTION

- Eclecticism, Coastal and Contemporary Style etc.

PART-B

Unit 4: FAMOUS LEGENDARY DESIGNERS AND THEIR CONTRIBUTION TO INTERIOR DESIGN

- Elsie De Wolfe, David Hicks, Le Corbusier, Mies Van Der Rohe, F.L Wright, Dorothy Draper Etc.

UNIT 5: CONTEMPORARY DIRECTIONS: DESIGN DEVELOPMENTS

- Late Modernism, Postmodernism, Minimalism , Deconstructivism , Hi-Tech

Unit 6: Discuss furniture manufacturing from different cultures

- Research a variety of production methods
- Identify production methods that demonstrate sustainable practices

Text Books/ Reference Books:

1. Ahmad A. Kasu, 1 January 2018, Interior Design, ASHISH BOOK CENTRE, ISBN-13 : 978-8178131863
2. Dr. Leslie Pina, 2009, Furniture in History: 3000 B.C - 2000 A.D, 2nd edition, Pearson

Software required/Weblinks:

NONE

Instructions for paper setting: **Seven questions are to be set in total. First question will be conceptual covering the entire syllabus and will be compulsory to attempt. Three questions will be set from each part 'A' and part 'B'. Students need to attempt two questions out of three from each part. Each question will be of 8 marks.**

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
BIDD-DS-101.1:	3	2	-	-	-	-	-	-	-	1	-	-	-	1
BIDD-DS-101.2:	2	3	-	2	2	-	1	-	-	-	2	1	-	-
BIDD-DS-101.3:	-	1	2	3	2	-	-	1	1	2	1	-	-	-
BIDD-DS-101.4:	2	1	1	1	3	1	-	-	1	1	1	-	2	-
BIDD-DS-101.5:	-	1	1	2	2	-	-	1	2	2	2	2	2	-
BIDD-DS-101.6:	1	1	2	1	2	3	1	-	1	2	1	1	-	2

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES
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BIDD-DS-102: MATERIALS AND TECHNIQUES - I

Periods/week		Credits	Max. Marks: 100
L: 2	T: 0	P: 0	2
Duration of Examination:			2
Hrs			END SEM.EXAM: 50
Pre-requisites: None			
Course Type: Program Core			

Course Outcomes

The student will be able to -

BIDD-DS-102.1: List the variety of paints, wood, floor, wall covering materials etc.

BIDD-DS-102.2: Explain through research and compile report on sustainability components production, installation, durability, cost, life-cycle cost, to develop a better understanding of the various important factors which should be considered when specifying products.

BIDD-DS-102.3: Identify specific components of composition of new materials for interiors using knowledge of construction techniques of materials.

BIDD-DS-102.4: Analyze the manufacturing process, application methods and recommend materials that will make less of an impact on our environment.

BIDD-DS-102.5: Recommend the materials that can be applied to meet the functional and aesthetic needs of your clients.

BIDD-DS-102.6: Create a budget estimate of the quantities of materials needed.

PART-A

Unit 1 Discuss the different types of interior and exterior materials with cost and estimation

1. Wooden & Bamboo, Radiant heat Flooring, Granite & Marble, Cork & Laminates, Veneers & Vinyl, Carpet & acrylic.
2. History & Ingredients of Paint, Binders, Primers & Pigments, Cost and estimation.
3. Types of Wood, Manufacturing Process, Seasoning: Air-drying & Kiln-Drying, Grading, Veneer Construction, Specialized Veneers, Effects in veneering, Plywood, Laminates, Environmental impact.

Unit 2 Discuss the many different types of materials and products on the global and local market and how they can be applied to meet the functional and esthetic needs of your clients.

- 2.1 Select specific materials based on client needs in Residential settings.
- 2.2 Clearly explain the performance, properties and application of the different materials in the global and local market place.
- 2.3 Recommend materials that will make less of an impact on our environment and are made from renewable Resources.

Unit 3 Demonstrate how to calculate quantities required to price out materials to meet your clients Needs

- 3.1 State the quantities of materials needed to create a budget estimate
- 3.2 Create a complete budget estimate
- 3.3 Explain how to calculate square footage, square yards, lineal feet, calculations for wallpaper and paint.

PART-B

Unit 4 Wall covering, Metal and Leather & Suede

- 4.1 Types of wall coverings, Wall Paper, Calculation of Wallpaper, Fabric Wall covering, Baseboards, Gypsum Board, Bamboo and tiles etc, History of Plaster on Walls, Application Process.
- 4.2 Properties & history of Metal, Metal Finishes – Mechanical, Chemical & Coating, Ferrous & Nonferrous Metals, Environmental impact.
- 4.3 Skin sizes & Grain, Preparation, Tanning & Finishing, Splitting & Coloring, Sources of Leather, Imitation Leather, Environmental Impact.

Unit 5 Discuss new methods of material applications that are more sustainable to the environment

- 5.1 Research application methods that support green building practices
- 5.2 Select materials for residential projects based on knowledge of the manufacturing process using the three pillars of sustainability through social, economic and environmental practices

Unit 6 Prepare client proposal of a variety of materials and finishes used in residential and commercial settings

- 6.1 Prepare a client proposal for the materials and finishes of an interior space.
- 6.2 Catalog a variety of materials and identify specific components of composition.

Text Books/ Reference Books:

1. Nick Gibbs, 30 July 2005, The Real Wood Bible, Firefly Books Ltd; Spi edition.
2. Virginia Hencken Elsasser& Julia Sharp, 26 January 2017, Know your Home Furnishings,2nd Revised edition, Bloomsbury Academic USA.
3. Helen Bowers,5 March 2005, Interior Materials & Surfaces: The Complete Guide, Publisher-Firefly Books.
4. Ahmad A. Kasu, 1 January 2018, Interior Design, ASHISH BOOK CENTRE, ISBN-13: 978-8178131863
5. M. Pratap Rao, January 2012, Interior Design Principles & Practice,4th edition, STANDARD PUBLICATIONS-DELHI

Software required/Weblinks:

None

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Instructions for paper setting: Seven questions are to be set in total. First question will be conceptual covering the entire syllabus and will be compulsory to attempt. Three questions will be set from each part ‘A’ and part ‘B’. Students need to attempt two questions out of three from each part. Each question will be of 10 marks.

Course Articulation Matrix

CO Statement	P O 1	P O 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
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BIDD- DS- 102.1	2	-	-	1	1	1	2	-	1	1	1	-	1	3
BIDD- DS- 102.2	3	-	-	1	-	2	2	1	-	3	1	2	3	3
BIDD- DS- 102.3	1	-	-	3	-	1	1	2	-	-	-	1	3	3
BIDD- DS- 102.4	2	1	2	1	-	2	1	1	-	1	3	1	2	3
BIDD- DS- 102.5	3	2	1	3	2	3	-	2	1	1	-	1	2	3
BIDD- DS- 102.6	-	-	-	1	-	-	-	1	-	1	1	3	1	1

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CDC-SOD-111: Professional Communication-I

Periods/week			Credits	Max. Marks: 100
L: 2	T: 0	P: 0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:			2	END SEM.EXAM: 50
Hrs				
Pre-requisites: None				
Course Type: Program Core				

Course Outcomes

CDC-SOD-111.1: Students will be able to develop all-round personality by mastering interpersonal skills to function effectively in different circumstances.

CDC-SOD-111.2: Students will be able to demonstrate effective communication through grammatically correct language.

CDC-SOD-111.3: Students will be able to apply effective listening and speaking skills in real life scenarios.

Unit 1: Attitudinal Communication

1.1 Attitude and its Impact on Communication

1.2 Courtesy & Politeness in Communication

1.3 Diversity & Inclusion – Bullying, Cultural Sensitivity, Stereotypes, Sexual Harassment, LGBTQ, Respect, Chivalry, Racial & Gender Discrimination, Disability Harassment, Inclusion.

1.4 Power Dressing

Unit 2: Syntactical Communication - I

2.1 Common errors in communication

2.2 Identification of word class

2.3 Errors & rectifications in

2.3.1 Article usage

2.3.2. Tenses usage - Present Perfect vs. Past Simple vs. Past Perfect

2.3.2 Subject Verb Agreement

Unit 3: Phonetics

3.1 Impact of First Language Influence

3.2 Tone

3.3 Intonation

3.4 Rate of Speech

3.5 Pronunciation: Vowels & Consonant sounds

Unit 4: Developing Communication Skills -I (Listening & Speaking)

4.1 Concept of LSRW: Importance of LSRW in communication.

4.2 Listening Skills : Real Life challenges, Barriers to Listening

4.3 Speaking : Self Introduction, Interview, GD, Resume

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

[Course Articulation Matrix](#)

CO Statement (CDC--111)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
CDC-SOD-111.1	-	-	-	-	-	-	-	-	2	2	-	1	-	-
CDC-SOD-111.2	-	-	-	-	-	-	-	-	2	1	-	2	-	-
CDC-SOD-111.3	-	-	-	-	-	-	-	-	2	1	-	1	-	-

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BIDD-DS-251: LAYOUT and PLANNING

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S:0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:				3	END SEM.EXAM: 50
Hrs					
Pre-requisites: None					
Course Type: Program Core					

Course Outcomes

The student will be able to

BIDD-DS-251.1: list out the variety of furniture types as per function of the space.

BIDD-DS-251.2: demonstrate design solutions in formal proposals.

BIDD-DS-251.3: develop 2d layouts & multiple layout solutions.

BIDD-DS-251.4: distinguish between good qualities of material available locally and globally.

BIDD-DS-251.5: select sustainable practices for design solutions.

BIDD-DS-251.6: estimate the overall budget of their proposed solutions.

PART-A

Unit 1: Furniture & its types

- 1.1 Role of furniture in interior design
- 1.2 Furniture categories – Residential, Hospitality, Office, outdoor spaces

Unit 2: Anthropometric & Ergonomics

- 2.1 Measuring drawing of a furniture – plan, elevation and drawings on full scale

Unit 3: Select appropriate furniture for specific client needs

- 3.1 Introduction and Instruction on use of equipment
- 3.2 Identify the scope of the work for client projects
- 3.4 Relationship of furniture and layouts: -Profiles, requirements for programming, Block planning

PART-B

Unit 4: Arrange furniture based on space requirements

- 4.1 Conduct space exploration for multiple furniture layout solutions.
- 4.2 Estimate the size of furniture that can be accommodated in specific spaces.
- 4.3 Recommend how rooms can be divided into functional areas
- 4.4 Respect existing traffic patterns and utilize recommended clearances.
- 4.5 Create functional and aesthetically pleasing layouts.
- 4.6 Determine how the architectural lines of a space as well as the design elements and principles are utilized to achieve harmony.

Unit 5: Make qualified decisions regarding the selection of furniture and finishes.

- 5.1 Describe how suitability and style, proportion and scale, function, quality construction and cost factors into furniture purchasing.
- 5.2 Anticipate client questions about product use and be able to justify materials and pieces selected.

Unit 6: Demonstrate an understanding of global production of furniture and its role in sustainable furniture design.

- 6.1 Identify and describe good qualities in local and global furniture manufacturing.

6.2 Consider how sustainable practices can be incorporated into the core of decorating choices and recommendations.

Text Books/ Reference Books:

1. Karla J. Nielson and David A Taylor, 2002, Interiors AnIntroduction, 3rd edition, Publishers-Mcgraw-Hill College.
2. Maureen Mitton and Courtney Nystuen, 19 April 2016, Residential Interior Design – A guide to Planning Spaces,3rd edition, Wiley

Software required/Weblinks:

NONE

Instructions for paper setting:

subject will be assessed through a practical examination.

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
BIDD-DS-251.1	1	3	1	–	2	–	–	–	–	–	–	2	1	–
BIDD-DS-251.2	1	2	1	–	2	–	–	1	2	2	2	2	3	–
BIDD-DS-251.3	1	2	3	2	2	1	–	–	1	2	1	1	1	–
BIDD-DS-201.4	1	2	1	1	1	2	3	1	2	1	1	1	–	3
BIDD-DS-251.5	1	2	1	2	1	1	3	–	1	1	1	2	–	2
BIDD-DS-251.6	1	1	1	2	2	1	1	2	1	1	3	1	–	–

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

(Deemed to be University under section 3 of the UGC Act 1956)

BIDD-DS-252: Digital Representation - I

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S: 0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:				3	END SEM.EXAM: 50
Hrs					
Pre-requisites: None					
Course Type: Program Core					

Course Outcomes**BIDD-DS-252.1:** defines basic concepts of AutoCAD.**BIDD-DS-252.2:** demonstrates software skills in creating 2D layouts.**BIDD-DS-252.3:** applies dimensioning methods to accurately produce drawings.**BIDD-DS-252.4:** Discover innovative application of tools in photoshop for image editing**BIDD-DS-252.5:** Applies all necessary photoshop tools to create rendered plan and elevation**BIDD-DS-252.6:** Improve overall presentation of their design proposals in Photoshop**PART- A****Unit 1: CAD Basics**

- Simple Exercises in 2D CAD software (AutoCAD/ArchiCAD) specifically or proficiency in drawing/editing objects, texts, dimensioning, making and inserting blocks,
- Understanding of unit's settings, scale, limits, line type, line weight, layers, colors and print commands.
- Complete design representation in the form of Orthographic Multiview Drawings using CAD.
- Create layers on drawing to ensure clear instructions and measurements

Unit 2 Demonstrate basic computer aided drafting techniques needed to produce industry quality drawings

- Produce computer-aided floor plans and elevations, Organizing plans, sections and elevations
- Drawing and printing to scale, text styles and sizes, hatches and dashed lines, discuss standard menu tools, Blocks advanced editing tools
- Dimensioning drawings to complete tasks and demonstrate correct application

Unit 3: Create and save drawing files

- Demonstrate how to set up and use folders
- Apply printing/plotting set-up commands
- Organize file hierarchies
- Employ file formats according to industry standards

PART- B**Unit 4: Getting Started with Photoshop**

- Exploring the Toolbox, The New CS4 Applications Bar & the Options Bar, Exploring Panels & Menus, Creating & Viewing a New Document, Customizing the Interface, Setting Preferences

Unit 5: Working with Images & Basic Editing Tools

- Zooming & Panning an Image, Working with Multiple Images, Rulers, Guides & Grids, Undoing Steps with History, Adjusting Color with the New Adjustments Panel, The New Masks Panel & Vibrance Color Correction Command, The New Note Tool & the Save for Web & Devices Interface, The New Auto-Blend & Auto-Align Layers Commands, The New 3D Commands
- Selecting with the Elliptical Marquee Tool, Using the Magic Wand & Free Transform Tool, selecting with the Regular & Polygonal Lasso Tools, Combining Selections, Using the Magnetic Lasso Tool, Using the Quick Selection Tool & Refine Edge, Modifying Selections

Unit 6: Photoshop Layers & Plan Rendering

- Understanding the Background Layer, Creating, Selecting, Linking & Deleting Layers, Locking & Merging Layers, Copying Layers, Using Perspective & Layer Styles, Filling & Grouping Layers, Introduction to Blending Modes, Blending Modes, Opacity & Fill, Creating & Modifying Text
- Importing the AutoCAD plans in photoshop and rendering the plans and elevations to make presentable drawings

Ref Book:

1. Jim Leggitt, December 2009, Drawing Shortcuts, developing quick drawing skills using today's technology, 2nd edition, Wiley & Sons, ISBN: 978-0-470-43548-9
2. Christopher Natale, 3 October 2011, Perspective Drawing for Interior Space, 1st edition, Fairchild Books ISBN: 978-1-60901-071-3
3. John Mantague, February 2013, Basic Perspective Drawing – Visual Guide, 6th edition, ISBN: 978-1-118-41412-5, John Wiley & Sons
4. Suining Ding, 28th March 2011, Sketching Interiors from Traditional to Digital, 1st edition, Fairchild Books ISBN: 978-1-56367-918-6
5. John Pile, 1st January 1989, Perspective for Interior Designers ISBN: 0-8230-4008-9 Perspective, William F. Powell, Walter Foster Publishing

* Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Instructions for paper setting: The subject will be assessed through a practical examination.

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
BIDD-DS-252.1:	2	1	2	1	2	3	1	2	2	2	2	2	2	2
BIDD-DS-252.2:	3	2	1	2	1	3	3	3	3	2	2	2	2	2
BIDD-DS-252.3:	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BIDD-DS-252.4:	3	2	2	1	2	2	2	1	2	2	2	2	2	2

BIDD- DS- 252.5:	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BIDD- DS- 252.6:	2	2	2	1	2	2	2	3	2	2	2	2	2	3

MRPERS

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

(Deemed to be University under section 3 of the UGC Act 1956)

BIDD-DS-253: DRAWING TECHNIQUES - II

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S: 0	2	CONTINUOUS EVALUATION: 50
Duration of Examination: 3Hrs					END SEM.EXAM: 50
Pre-requisites: None					
Course Type: Program Core					

Course Outcomes**BIDD-DS-253.1:** The student will be able to understand the methods of perspective drawing.**BIDD-DS-253.2:** The student shall be able to categorize various three-dimensional perspective sketching.**BIDD-DS-253.3:** The student shall be able to apply various mediums for rendering.**BIDD-DS-253.4:** The student will be able to identify different rendering techniques.**BIDD-DS-253.5:** The student will be able to develop three-dimensional sketching techniques.**BIDD-DS-253.6:** The student shall be able to develop Free Hand Perspective Sketches.**PART- A****Unit 1: Isometric Projection Sociography**

- Isometric projection of all platonic solids such as cube, cuboid, hexagonal prism, pyramids, cone and sphere
etc – isometric projection of singly and doubly curve surfaces.
- Sociography and methods of representing it in 2 D projections.
- Applying Sociography in 3 D geometrical projections especially Isometric Projections

Unit 2: Develop and use a one-point perspective grid using a variety of architectural scales.

- Introduction of concepts such as Station Point, Picture Plane, Eye Level, etc.
- Develop a one-point perspective drawing technique using correct mathematical calculations and appropriate architectural scale.
- Outline the basic points on a one-point grid and draw interior space
- Ensure accuracy and detailed points of reference

Unit 3: Design and use a two-point perspective grid using a variety of architectural scales.

- Develop a two-point perspective drawing technique using correct mathematical calculations and appropriate scale
- Establish a new two-point grid to prepare drawings with a different view of space
- Ensure accuracy and detailed points of reference

PART- B**Unit 4: Create one-point and two-point perspective drawings using floor plans and furniture specification sheets.**

- Employ accurate mathematical calculations to plot furniture on a perspective grid using furniture specification sheets.

Unit 5: Apply pen and ink or color to drawings using a variety of mediums

- Practice techniques using colored pencils & markers to enhance drawings and show emphasis
- Create depth by using appropriate line weights and shadows to final drawings
- Prepare formal drawings for presentation in a portfolio

Unit 6: Free Hand Perspective Sketches

- Develop new techniques to use pencil & markers on drawings

- Estimate special relationships using eye measuring techniques
- Anticipate quantity of time used to complete assignments
- Outdoor sketching including Lawns, bushes, Water Bodies, Plants & trees in different media. Indoor sketching – furniture, lights, corridor, lobby, class room etc.

Ref Book:

6. Jim Leggitt, December 2009, Drawing Shortcuts, developing quick drawing skills using today’s technology, 2nd edition, Wiley & Sons, ISBN: 978-0-470-43548-9
7. Christopher Natale, 3 October 2011, Perspective Drawing for Interior Space, 1st edition, Fairchild Books ISBN: 978-1-60901-071-3
8. John Mantague, February 2013, Basic Perspective Drawing – Visual Guide, 6th edition, ISBN: 978-1-118-41412-5, John Wiley & Sons
9. Suining Ding, 28th March 2011, Sketching Interiors from Traditional to Digital, 1st edition, Fairchild Books ISBN: 978-1-56367-918-6
10. John Pile, 1st January 1989, Perspective for Interior Designers ISBN: 0-8230-4008-9 Perspective, William F. Powell, Walter Foster Publishing

* Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Instructions for paper setting: The subject will be assessed through a practical examination.

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
BIDD-DS-253.1:	2	1	2	1	2	3	1	2	2	2	2	2	2	2
BIDD-DS-253.2:	3	2	1	2	1	3	3	3	3	2	2	2	2	2
BIDD-DS-253.3:	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BIDD-DS-253.4:	3	2	2	1	2	2	2	1	2	2	2	2	2	2
BIDD-DS-253.5:	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BIDD-DS-253.6:	2	2	2	1	2	2	2	3	2	2	2	2	2	3

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES
(Deemed to be University under section 3 of the UGC Act 1956)

BIDD-DS-254: BUILDING MATERIAL AND CONSTRUCTION TECHNIQUES – I

Periods/week				Credits	Max. Marks: 100
L: 0	T: 0	P: 4	S: 0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:				3	END SEM.EXAM: 50
Hrs					
Pre-requisites: None					
Course Type: Program Core					

COURSE OUTCOMES

BIDD-DS-254.1: Understand building terminology i.e., parts of a building

BIDD-DS-254.2: Apply basics of foundation and able to know various brick bonds to construct walls for the different purposes

BIDD-DS-254.3: Identify different stone and brick courses and designs its construction with detailing.

BIDD-DS-254.4: Analyze the purpose of plaster in regards with different materials.

BIDD-DS-254.5: Evaluate how openings are made with the construction of types of arches, lintels and openings according to functionality of the space.

BIDD-DS-254.6: Create various combinations of door types using different material and configurations.

PART-A

Unit 1 Introduction

1. Basic Building Components – terminology & various component
2. Wall section (Foundation to Super structure) & Openings
3. RCC & Types of structure

Unit 2 Brick Masonry

- 2.1 Brick Types
- 2.2 Brick Bonds – English, Flemish with 1, 1.5 and 2 brick thickness

Unit 3 Stone Masonry

- 2.3 Stone Masonry
- 2.4 Other masonry – Hollow bricks, AAC brick, Conc. Blocks,

PART-B

Unit 4 Walls

- 4.1 Plastering, pointing
- 4.2 Load bearing wall, partition wall out of Brick
- 4.3 Partition wall is made out of a variety of materials. Wood frame, glass, Aluminium frame double skin partition

Unit 5 Openings

- 5.1 Lintels & Arches – Types & Materials
- 5.2 Doors & windows – Frames & shutters, Materials: Timber, Metal, UPVC, Engineered wood, Stone Jambs

Unit 6 Doors

- 6.1 Part of doors
- 6.2 Basic timber Joinery
- 6.3 Types of plywood and ply boards and their usages. Thickness and sizes available in market
- 6.4 Glass Sheet and their usages. Thickness and sizes available in market
- 6.5 Types of Doors- Paneled Doors, Flush Doors, partially glazed Doors, partially solid & Wire mesh doors

Text Books/ Reference Books:

Author's name - S. C. Rangwala

Year - 2010

Title - Building Construction

Edition - Fifth
Publisher - Charotar Publishing House Pvt. Limited, 2009

Software required/Web links:

None

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Instructions for paper setting: The subject will be assessed through a practical examination.

Course Articulation Matrix

CO Statement	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
BIDD-DS-254.1:	3	1	1	2	1	2	2	1	1	2	2	3	1	2
BIDD-DS-254.2:	3	2	2	2	1	2	1	2	2	3	2	3	2	2
BIDD-DS-254.3:	3	3	2	3	-	-	-	1	1	2	1	3	2	3
BIDD-DS-254.4:	2	3	3	3	1	2	2	2	1	2	2	3	3	3
BIDD-DS-254.5:	3	2	3	3	1	2	3	2	2	3	2	3	3	3
BIDD-DS-254.6:	1	1	2	1	1	2	2	2	2	2	3	3	3	3

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES
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BIDD-DS-201: HISTORY OF INTERIOR DESIGN- II

Periods/week		Credits	Max. Marks:100	
L: 2	T: 0	P: 0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:		3	END SEM.EXAM: 50	
Hrs				
Pre-requisites: None				
Course Type: Program Core				

Course Outcomes

The student will be able to

BIDD-DS-201.1: Recall basic concepts of Art & Craft Movement

BIDD-DS-201.2: Discuss the Art and Interiors of Scandinavian Tradition

BIDD-DS-201.3: Analyze the industrial revolution in architecture & design

BIDD-DS-201.4: Understand the ancient Indian architecture & design to utilize the information in heritage conservation and restoration

BIDD-DS-201.5: Identify the features of pre-independence Indian architecture and design

BIDD-DS-201.6: Recognize and develop Indian traditional art and design based on different states and their culture.

PART-A

Unit 1: Art & Craft Movement

- Origins of Art & Craft Movement
- Main Ideas and concept
- Key figures of Art & Craft Movement

Unit 2: Scandinavian Traditions

- Interior Design in Iceland, Norway, and Sweden.
- Interior Design in Denmark, Finland
- Contributions of Architects such as Aalvar Alto etc.

Unit 3: Overview of Architectural, Interior Design, Industrial Design, Graphic Design, Forces of Industrialization in Europe.

- Impact of Industrial revolution in Design- Interior, graphics
- Revolution in materials

PART-B

Unit 4: Indian Context

- Indus valley civilization
- Hindu Temple Architecture: Konark, Diawara Temples, Khajuraho Temples
- Buddhist Rock Cut Architecture: Chaityas And Viharas.

Unit 5: Indian History- Pre-Independence

- Mughal era – Taj mahal, Fatehpur Sikri, Qutub Minar & other features of pre independence era

Unit 6: Indian Traditional Designs

- Traditional Styles of different Indian cultures - their art, design & decorations of home accessories across the states in India including Rajasthan, Gujarat, Andhra, Tamil Nadu, Madhya Pradesh, Sikkim, Himachal etc

Text Books/ Reference Books:

1. Dr. Leslie Pina, 2009,. Furniture in History: 3000 B.C - 2000 A.D, 2nd edition, Pearson
2. Karla J. Nielson and David A Taylor, 2002, Interiors An Introduction, 3rd edition, Publishers-Mcgraw-Hill College.

Software required/Weblinks:

NONE

Instructions for paper setting: **Seven questions are to be set in total. First question will be conceptual covering the entire syllabus and will be compulsory to attempt. Three questions will be set from each part 'A' and part 'B'. Students need to attempt two questions out of three from each part. Each question will be of 8 marks.**

Assessment Tools:

Assignment/Tutorials

Sessional tests

Surprise questions during lectures/Class Performance

Term end examination (THEORY)

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
BIDD-DS-201.1	3	1	1	1	2	-	-	-	-	2	-	2	-	-
BIDD-DS-201.2	1	3	2	2	1	-	1	1	1	2	1	2	-	-
BIDD-DS-201.3	2	2	1	2	3	-	1	1	2	2	2	1	-	3
BIDD-DS-201.4	2	1	2	1	2	3	2	2	2	1	1	1	-	-
BIDD-DS-201.5	2	1	2	1	3	1	-	2	2	2	2	1	2	-
BIDD-DS-201.6	2	1	1	2	2	-	1	1	2	2	1	3	-	-

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

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BIDD-DS-202: MATERIALS AND TECHNIQUES - II

Periods/week			Credits	Max. Marks: 100
L: 2	T: 0	P: 0	2	CONTINUOUS EVALUATION: 50
Duration of Examination:			2	END SEM.EXAM: 50
Hrs				
Pre-requisites: None				
Course Type: Program Core				

Course Outcomes

BIDD-DS-202.1: List the advantages & disadvantages of specifying certain textiles in different applications from different cultures based on composition, manufacturing processes and weaving techniques.

BIDD-DS-202.2: Explain the performance of different weaves of fabric and patterns in carpets.

BIDD-DS-202.3: Identify variety of textiles man-made, natural and blended available in the market

BIDD-DS-202.4: Analyze the environmental impact created when specifying specific types of fibers

BIDD-DS-202.5: Select soft products and materials used in residential and commercial settings based on client's needs focusing on sustainable products and cradle to cradle ideology

BIDD-DS-202.6: Develop a design concept which meets all the criteria (i. e historical context, accessibility) of a given decorating project using the creative process and prepare complete budget estimate based on quantities required for specific locations.

PART-A**Unit 1: Outline the differences between natural and synthetic fibers and environmental concerns**

- 1.1 Research and present findings on the differences between natural and man-made fibers
- 1.2 Explain the environmental impact created when specifying specific types of fibers
- 1.3 Collect a variety of textiles both man-made and natural and explain the difference between them
- 1.4 Discuss the advantages and disadvantages of blending natural and man-made fibers.

Unit 2: Explain production methods used in manufacturing textiles for end use applications

- 2.1 Examine the performance of different weaves of fabric and patterns in carpets
- 2.2 Locate examples of different weaves of fabrics and be prepared to identify each one

Unit 3: Decipher fabric composition, application and uses from a variety of domestic and global sources

- 3.1 Research the advantages and disadvantages of specifying certain textiles in different applications
- 3.2 Discuss textiles from different cultures based on composition, manufacturing processes and weaving techniques used

PART-B**Unit 4: Choose appropriate textiles for interior Applications based on specific client requirements**

- 4.1 Demonstrate how to blend pattern, textures and colors
- 4.2 Explain the types of finishes and textiles that best suit a client's requirements

Unit 5: Identify specific soft products and materials used in residential and commercial settings

- 5.1 Choose specific materials required based on client's needs
- 5.2 Clearly explain the performance, properties and application methods of different materials in the local /
- 5.3 Prepare proposal of recommendations based on environmentally renewable resources

Unit 6: Demonstrate how to calculate quantities of materials needed for specific applications

- 6.1 Create a complete budget estimate based on quantities required for specific locations
- 6.2 Explain how to calculate square footage, square yards, lineal feet when estimating fabric
- 6.3 Prepare an estimate for materials based on specific calculations

Text Books/ Reference Books:

1. *Elaine Louie, 23 September 2004*, House Beautiful Collections of Display, Publisher : Sterling, ISBN-13 : 978-1588162458
2. *Virginia Hencken Elsass, 23rd August 2003*, Know your Home Furnishings, Student edition, Fairchild Books.

3. Jan I. Yeager, 1 January 2000, Textiles for Residential and Commercial Interiors, 2nd Revised edition, Fairchild Books;

Software required/Weblinks:

None

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Instructions for paper setting: Seven questions are to be set in total. First question will be conceptual covering entire syllabus and will be compulsory to attempt. Three questions will be set from each part 'A' and part 'B'. Students need to attempt two questions out of three from each part. Each question will be of 10 marks

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
BIDD-DS-202.1	3	2	1	3	1	1	2	1	1	3	1	3	3	3
BIDD-DS-202.2	3	1	1	1	-	1	1	1	1	3	1	3	2	3
BIDD-DS-202.3	2	-	2	1	1	2	3	2	3	2	-	3	1	3
BIDD-DS-202.4	2	-	-	2	-	3	2	2	1	1	1	2	3	3
BIDD-DS-202.5	3	1	2	2	-	1	2	1	3	3	1	3	2	3
BIDD-DS-202.6	3	3	3	3	1	2	2	2	1	3	2	3	3	3

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES
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BIDD-DS-203: INTERIOR STYLING AND ACCESSORIES

Periods/week		Credits	Max. Marks: 100
L: 2	T: 0	P: 0	2
Duration of Examination:			2
Hrs			END SEM.EXAM: 50
Pre-requisites: None			
Course Type: Program Core			

Course Outcomes

BIDD-DS-203.1: Define the need and role of accessories in interior spaces.

BIDD-DS-203.2: Analyze elements which can fit into the definition of accessories, complementing the overall concept.

BIDD-DS-203.3: Evaluate role of lighting fixture for enhancement of aesthetic and functions purposes

BIDD-DS-203.4: Develop appropriate option according to client's requirement for window treatment

BIDD-DS-203.5: Identify current marketing trends in industry

BIDD-DS-203.6: Create Estimate of material and labor need to complete a job, and overall presentation for design proposals

PART-A

Unit 1: Introduction of Accessories

1. Terminology
2. List various types of Interior accessories & its impact on space
3. Importance of Colors, Elements & Principles of design in selecting various accessories.
4. Understand ways to coordinate accessories with regard to different types of furniture arrangements

Unit 2: Decorative movable pieces

- 2.1 Various types of Wall arts, paintings, sculptures, vases, candles and art artifacts
- 2.2 Discuss how products are used to enhance the aesthetics of any interior spaces.
- 2.3 Discuss wall shelves and organizers

Unit 3: Lighting Fixtures

- 3.1 Various types of lighting fixtures
- 3.2 Discuss how variety and combination of light fixtures are used to enhance the aesthetics and functionality of any interior space

PART-B

Unit 4: Window treatments

- 4.1 Describe types of window treatment and its Importance in interior space
- 4.2 Discuss different types of headings, linings, trims, hardware and fabrics used to create treatments
- 4.3 Research and present findings on different period window treatments and how they would co-ordinate with Interiors
- 4.4 Show how to measure a window for hard or soft window treatments
- 4.5 Calculate yardage to avoid waste of materials
- 4.6 Discuss soft furnishing like rugs, carpets, cushions

Unit 5: Latest trends and forecast

- 5.1 Research and present findings of regional and global trends

Unit 6: Estimation of cost

- 6.1 Estimate the quantity, labor, and ways of procurement to complete the job on time
- 6.2 Create a flow chart of activities

Text Books/ Reference Books:

1. **Karla. J. Nelson, 15 September 1989**, Window Treatments, 1- Edition, Wiley.
2. Charles T. Randall, 1 January 1707, The Encyclopedia of Window Fashions, 6- Edition, Charles Randall Inc.ISBN: 1-890379-12-3
3. Carol A. Sampson,1 April 1991, Estimating Materials Costs and Time for Interior Designers, Watson-Guptill , ISBN: 0-8230-1629-3
4. Decorating Magazines

Software required/Weblinks:

NONE

Instructions for paper setting: Seven questions are to be set in total. First question will be conceptual covering the entire syllabus and will be compulsory to attempt. Three questions will be set from each part 'A' and part 'B'. Students need to attempt two questions out of three from each part. Each question will be of 8 marks.

Assessment Tools:

Assignment/Tutorials

Sessional tests

Surprise questions during lectures/Class Performance

Term end examination (THEORY)

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O 1	PS O 2
BIDD-DS-203.1:	3	2	2	2	3	1	1	–	1	2	–	2	–	–
BIDD-DS-203.2:	2	3	2	1	2	1	1	–	1	–	2	2	–	–
BIDD-DS-203.3:	2	2	1	2	3	2	2	2	2	2	2	2	–	–
BIDD-DS-203.4:	1	2	3	2	2	1	1	1	2	1	2	2	–	–
BIDD-DS-203.5:	2	1	1	1	2	1	2	2	2	2	3	2	–	2
BIDD-DS-203.6:	2	1	1	2	3	–	–	2	1	2	2	3	2	–

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

(Deemed to be University under section 3 of the UGC Act 1956)

CDC-SOD-112: PROFESSIONAL COMMUNICATION-II

Periods/week		Credits	Max. Marks: 100
L: 2	T: 0	P: 0	0
Duration of Examination:		2	CONTINUOUS EVALUATION: 50
Hrs.			END SEM.EXAM: 50
Pre-requisites: None			
Course Type: Program Core			

Course Outcomes

CDC-SOD-112.1: Students will be able to exhibit effective reading and writing skills at professionally simulated environment

CDC-SOD-112.2: Students will be able to enhance skills to effectively deliver formal and informal presentations to a variety of audiences in multiple contexts.

CDC-SOD-112.3: Students will be able to learn grammatically correct formal writing skills.

Unit 1: Developing Communication Skills- II (Reading & Writing)

1.1 Reading Comprehension

1.2 Writing Skills: Specific to AMCAT. Introduction to Writing: Organizing Principles of Paragraph, Precise Writing, Punctuations

1.3 Report Writing

1.4 Note Taking

Unit 2: Syntactical English II

2.1 Indianism & Localism

2.2 Conditionals

2.3 Preposition of Time & Place

Unit 3: Effective Communication

3.1 Concepts of Chronemics: Interpretation of time with business environment

3.2 Monochronic vs. Polychronic Cultures

3.3 Non- Verbal Communication: Kinesics & Proxemics

3.4 Acing virtual (video) interviews

Unit 4: Presentation Skills

4.1 Opening & closing of Presentations

4.2 Audience Analysis

4.3 Structuring the Presentation

4.4 Best Practice in Presentations

Assessment Tools:

Continuous Evaluation will be based on Assignment, Project, Attendance, Class Test and Performance in both Sessional Exams.

Sessional I	30%
Sessional II	30%
Assignment	20%
Class Performance	10%
Attendance	10%

Course Articulation Matrix

CO Statement (CDC--111)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
CDC-SOD-112.1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CDC-SOD-112.2	-	-	-	-	-	-	-	-	-	2	-	-	-	-
CDC-SOD-112.3	-	-	-	-	-	-	-	-	-	1	-	-	-	-

MRPERS

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES
(Deemed to be University under section 3 of the UGC Act 1956)

CH-202B: ENVIRONMENTAL STUDIES

Periods/week		Credits	Max. Marks: 200
L: 3	T: 0	P: 0	4
Duration of Examination:		3	CONTINUOUS EVALUATION: 100
Hrs			END SEM.EXAM: 100
Pre-requisites: None			
Course Type: Program Core			

Course Outcomes: The students will be able to:

- CH-202B.1. describe the multidisciplinary nature of environmental studies and importance of different types of ecosystems
- CH-202B.2. explain the significance of equitable use of natural resources and biodiversity conservation.
- CH-202B.3. identify the environmental problems
- CH-202B.4. evaluate different environmental policies & practices
- CH-202B.5. analyze ethical implications of environmental issues and disaster management
- CH-202B.6. explain the duality of Chemistry

PART- A

Unit 1 : Introduction to environmental studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development.

Unit 2 : Ecosystems

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems :

- a) Forest ecosystem
- b) Grassland ecosystem
- c) Desert ecosystem
- d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit 3 : Natural Resources : Renewable and Non-renewable Resources

- Land resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water : Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Unit 4 : Biodiversity and Conservation

- Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hotspots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

PART-B

Unit 5 : Environmental Pollution

- Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.

CH-202B.4	2	1	1	-	-	-	-	1	2	3	-	-	-	2
CH-202B.5	-	-	-	2	-	-	-	-	-	-	1	-	-	-
CH-202B.6	1	-	-	-	-	1	3	-	-	3	1	1	-	1

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Course Code	Course Name	Regional	National	Global
BIDD-DS-151	Design Fundamental			✓
BIDD-DS-152	Drafting skills			✓
BIDD-DS-153	Interior Design and Basics			✓
BIDD-DS-154	Drawing techniques - I			✓
BIDD-DS-101	History of Interior design- I			✓
BIDD-DS-102	Materials and techniques - I			✓
CDC-SOD-111	Professional Communication-I			✓
BIDD-DS-251	Layout and Planning			✓
BIDD-DS-252	Digital Representation - I			✓
BIDD-DS-253	Drawing techniques - II			✓
BIDD-DS-254	Building Material and Construction Techniques-I		✓	
BIDD-DS-201	History of Interior design- II			✓
BIDD-DS-202	Materials and techniques - II			✓
BIDD-DS-203	Interior Styling and Accessories			✓
CDC-SOD-112	Professional Communication-II			✓
CH-202B	Environmental Studies			✓
BIDD-DS-351	Interior Design Studio-I			✓
BIDD-DS-352	Building Material and Construction Techniques-II		✓	
BIDD-DS-353	Kitchen & Bathroom Design			✓
BIDD-DS-354	Visual Merchandising			✓
BIDD-DS-301	Lighting Design			✓
CDC-SOD-211	Placement Competency Enhancement-I			✓
BDES-AN-354	Digital Illustration-I			✓
BDES-ID-355	Introduction to Photography			✓
BIDD-DS-451	Interior Design Studio -II			✓
BIDD-DS-452	Building Material and Construction Techniques-III		✓	
BIDD-DS-453	Furniture Design – I			✓
BIDD-DS-454	Digital Representation - II			✓
BIDD-DS-401	Sustainable Design			✓
BIDD-DS-402	Business Basics			✓
CDC-SOD-212	Placement Preparatory			✓
BDES-CD-457	Trend Research and Forecasting			✓
BDES-AN-454	Motion Art - I			✓
BIDD-DS-551	Summer Internship			✓

BIDD-DS-552	Interior Design Studio -III			✓
BIDD-DS-553	Furniture Design - II			✓
BIDD-DS-554	Digital Representation - III			✓
BIDD-DS-555	Portfolio Development			✓
BIDD-DS-501	Service design			✓
BIDD-DS-502	Estimation and Costing			✓
CDC-SOD-311	Placement Competency Enhancement-II			✓
BDES-CD-556	Introduction to Web Design			✓
BDES-AN-555	Digital Illustration - II			✓
BIDD-DS-651	Interior Design Thesis			✓
BIDD-DS-601	Professional practices			✓
BDES-AN-654	Fundamental of Audio & Video Editing Lab			✓
BDES-CD-657	Corporate Branding			✓

	Environment and Sustainability	Professional Ethics	Human Values	Gender Equality
Environmental Studies CH 202B	✓			
Professional practices (BIDD-DS-601)		✓		
Business Basics (BIDD-DS-402)		✓		

Course Code	Course Name	Employability	Entrepreneurship	Skill development
BIDD-DS-152	Drafting skills			✓
BIDD-DS-154	Drawing techniques - I			✓
CDC-SOD-111	Professional Communication-I			✓
BIDD-DS-251	Layout and Planning	✓		
BIDD-DS-252	Digital Representation - I			✓
BIDD-DS-253	Drawing techniques - II			✓
BIDD-DS-254	Building Material and Construction Techniques-I		✓	
BIDD-DS-203	Interior Styling and Accessories	✓	✓	
CDC-SOD-112	Professional Communication-II			✓
BIDD-DS-351	Interior Design Studio-I	✓		
BIDD-DS-352	Building Material and Construction Techniques-II		✓	
BIDD-DS-353	Kitchen & Bathroom Design	✓		

BIDD-DS-354	Visual Merchandising	✓		
BIDD-DS-301	Lighting Design	✓	✓	
CDC-SOD-211	Placement Competency Enhancement-I			✓
BDES-AN-354	Digital Illustration-I			✓
BDES-ID-355	Introduction to Photography			✓
BIDD-DS-451	Interior Design Studio -II	✓	✓	
BIDD-DS-452	Building Material and Construction Techniques-III		✓	
BIDD-DS-453	Furniture Design – I	✓	✓	
BIDD-DS-454	Digital Representation - II			✓
BIDD-DS-401	Sustainable Design	✓	✓	
BIDD-DS-402	Business Basics		✓	
CDC-SOD-212	Placement Preparatory			✓
BDES-CD-457	Trend Research and Forecasting			✓
BDES-AN-454	Motion Art - I			✓
BIDD-DS-551	Summer Internship			✓
BIDD-DS-552	Interior Design Studio -III	✓	✓	
BIDD-DS-553	Furniture Design - II	✓	✓	
BIDD-DS-554	Digital Representation - III			✓
CDC-SOD-311	Placement Competency Enhancement-II			✓
BDES-CD-556	Introduction to Web Design			✓
BDES-AN-555	Digital Illustration - II			✓
BIDD-DS-651	Interior Design Thesis		✓	
BIDD-DS-601	Professional practices	✓	✓	
BDES-AN-654	Fundamental of Audio & Video Editing Lab			✓
BDES-CD-657	Corporate Branding			✓