

Bachelor of Design

(W.E.F. Academic Session 2022-23)

CURRICULUM (NEP)

Credit Requirements: 176

8 Semesters



School of Design
Doon University, Dehradun

School of Design

Bachelor of Design (4 Years)

Program Outcomes (POC)

Our undergraduate program is aimed at equipping students with skills to:

- Apply critical and analytical skills and methods to the identification, evaluation and resolution of problems
- Engage confidently in self-directed study and research
- Communicate ideas effectively in written, graphic and oral formats
- Operate effectively in multicultural and diverse environments
- Use appropriate technologies
- Recognize and understand the ethical responsibilities of individuals and organizations in society

Program Specific Outcome (PSOC)

Our curriculum across four years will help students gain:

- The ability to solve design problems, including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping and user testing, and evaluation of outcomes.
- The ability to describe and respond to clients and contexts that design solutions must address, including recognition of the physical, cognitive, cultural, and social human factors that shape design decisions.
- The ability to create and develop visual form in response to design problems, including understanding principles of visual organization/composition and application.
- An understanding of tools, technologies, and materials, including their roles in creating, producing, and using visual forms. This includes both traditional and digital media.
- Functional knowledge of design history, theory, and criticism, including understanding the similarities, differences, and relationships among the various design specializations.
- By applying a broad knowledge of design across a range of disciplines with in-depth knowledge in at least one area of study
- Through the application of project-based learning, incorporating critical, analytical and methodological skills relevant to the identification and resolution of problems in practical and creative ways
- By applying appropriate methods of research and investigation in addressing problems
- By demonstrating skills and use of technologies to enable the production of designed outcomes appropriate to the relevant discipline
- An understanding of basic business practices, including the ability to organize design projects and to work productively as a member of teams.
- Experiences that encourage familiarity with a broad variety of design work in various specializations and media.
- Understanding field realities by engaging with exposure and projects in the real world.

COURSE OUTCOMES

YEAR 1

Course Code: DNC101	Course Title: Design Sketching
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none">● Fundamentals of sketching● Understanding of freehand drawing techniques● Basic understanding of sketching tools● Understanding of one, two Point Perspective, Shading rendering● Anatomy drawing	

Course Code: DNC102	Course Title: Analytical Drawing
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none">● Use of Tools- Straight Edge Ruler and set Square● Understand 2D and 3D forms using freehand construction● Principles of geometric construction● Aim is to encourage students to observe and evolve geometric patterns and both micro and macro levels.	

Course Code: DNC103	Course Title: Colour & Composition
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none">● Understand Elements & Principles of Design● Understand Color Theory● Understand Gestalt Theory● Translation of the abstract into 2D Form	

Course Code: DNG104	Course Title: Material & Workshop Skills
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none">● Exploring the use of materials.● Understand material properties.● Materials explored will include Plaster of Paris, Wood, Metal Sheet and Polystyrene & Acrylic.● Use of Hand tools.● Transform material properties into function.	

Course Code: DNS105	Course Title: Creative Thinking
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none">● Understand the role of creativity and innovation in your own work and in other disciplines.● Understand the importance of diverse ideas, and to convey that understanding to others.	

Course Code: DNC151	Course Title: Design Sketching II
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none">● Emphasis on addition and creation of detail while drawing● Generate more complex perspective views including 1, 2 point ones in freehand drawing.● Rendering Techniques.● Use of Pens.	

Course Code: DNG154	Course Title: Introduction to Photography & Computer Graphics
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● Basic Knowledge of photography, camera Lens, focal length, exposure (shutter speed, aperture, ISO), depth of field. ● Fundamental of software, basic knowledge of software like- adobe photoshop, adobe indesign, adobe Illustrator. ● Understand software tools 	

Course Code: DNC153	Course Title: Geometry & Form in Space
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● Change 2D into 3D forms ● introduced to the concept of geometric and organic volumes. ● Properties of basic solids like cube, cone, pyramid, cylinder and prism ● Platonic and Archimedean solids 	

Course Code: DNC152	Course Title: Design Concerns
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● A broad overview of design & creative approaches to problem solving ● Ability to inter-relate concepts 	

Course Code: DNS155	Course Title: History of Design
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● Understand the history of design as a distinct discipline ● History of design in the West ● History of design in the Indian context 	

YEAR 2

Course Code: DNC201	Course Title: Introduction to Typography
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● Fundamental of typographic principles ● Elements of typography like terminology & measurement, history and evolution of type, printing technologies. 	

Course Code: DNG206	Course Title: Advanced Photography
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● The aim is to build skills as well as sensitivity to photography ● In Depth photography skill ● Communication of ideas and context 	

Course Code: DNS207	Course Title: Film Appreciation
Course Outcomes:	

The student at the completion of the course will be able to:

- Aimed at exploring the value of film viewing in context of Design
- Understand the way that content, form, and contexts work together to create meaning in film

Course Code: DNE202	Course Title: Illustration
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Course Outcomes:

The student at the completion of the course will be able to:

- Understand the basic approach to drawing and composition as a means of story-telling or information giving.
- Effectively communicate an idea, explain a concept or tell a story through pictures .

Course Code: DNE204	Course Title: Publication Design & Printing
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Course Outcomes:

The student at the completion of the course will be able to:

- Understand the process of printing.
- Fundamentals of page layout
- Explore Prints and posters
- Development of skills and advanced knowledge of publishing software, with emphasis on the maintenance of visual continuity in documents for publication

Course Code: DNE203	Course Title: Form Derivation I
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Course Outcomes:

The student at the completion of the course will be able to:

- Introduction to principles of form and aesthetics
- Principles of two dimensional form and three dimensional form
- Generating new form and application in product design

Course Code: DNE205	Course Title: Simple Product Design
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Course Outcomes:

The student at the completion of the course will be able to:

- Understand form derivation, ergonomics and material studies in the context of tangible products
- Designing simple products that meets user needs.

Course Code: DNC251	Course Title: Digital 3D Modeling
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Course Outcomes:

The student at the completion of the course will be able to:

- Understand 3D Software
- Learn 3D modeling, texturing, lighting, camera, rendering.
- Basic animation- keyframe animation & rendering

Course Code: DNC252/DNG255	Course Title: Interaction Design A/B
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Course Outcomes:

The student at the completion of the course will be able to:

- Basic Concepts in Human Computer Interaction.
- Basic Knowledge about principles and method of Interaction design
- Aims at imparting knowledge and furthering research into the domain of designing interactive experiences in media, products and computer design applications.

Course Code: DNS256	Course Title: Design Exposure Visit
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Course Outcomes:

The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> • Develop sensitivity to design in our environment • Develop sensitivity to socio-cultural contexts of design • Field learnings and experiences in design 	

Course Code: DNE253	Course Title: Moving Graphics & Storyboarding
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> • Understanding storyboarding and planning • Basics of after Effects/Premiere keyframe concepts and principles. • Understand Motion Graphics . 	

Course Code: DNE254	Course Title: Form Derivation II
Course Outcomes:	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> • Introduction to advanced principles of form and aesthetics • Principles of form families and house styles • Generating new form refining existing forms 	

YEAR 3

Course Code: DNC301	Course Title: Digital Illustration
Course Outcomes : Reinforcing Illustration Skills in digital medium.	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. Create illustrations in a digital environment and learn rendering skills. 2. Learn use of computers as a medium and as an additional tool for illustrators. 3. How to translate hand drawn items into digital products 	

Course Code: DNC302/DNG305	Course Title: Space Design A/B
Course Outcomes: efficient and economic space design understanding	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. Understand physical spaces and the importance of designing them to fit human comfort and wellness. 2. Importance of space ergonomics and sustainability in space. 3. Understand layouts, materials and budgets while working with space. 	

Course Code: DNP306	Course Title: Self Study
Course Outcomes : help students look at folk art or an informal economic activity in a holistic context and understand how representation is an important mirror of society and culture.	

Course Code: DNE303	Course Title: Design for Immersive Media
Course Outcomes	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. Basic understanding of AR / VR and transmedia technologies 2. Understanding of hardware and software components of immersive media 3. Deliver basic designs for immersive environments 	

Course Code: DNE304	Course Title: Advanced Prototyping
Course Outcomes	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. Understand methods and ways of prototyping for creating products. 2. Understand materials and their usage in prototyping and deciding how best they can be used to simulate a real 	

life product with them.

3. Create a prototype that either looks, feels or functions like the original product.

Course Code: DNC351	Course Title: Packaging Design
Course Outcomes	
The student at the completion of the course will be able to:	
1. Understanding of what goes in packaging design.	
2. Understand the importance of packaging innovation on the lines of creating environmentally friendly and sustainable packaging.	
3. Ability to create packaging prototypes along with the visual component utilizing graphic design inputs.	

Course Code: DNP356	Course Title: Portfolio Building
Course Outcomes	
The student at the completion of the course will be able to:	
1. Learn to present their work effectively and efficiently to prospective clients and employers.	
2. Learn to organize and present their work, brand themselves and present their work across media.	
3. Create their own portfolio.	

Course Code: DNC352/DNG355	Course Title: Identity Design A/B
Course Outcomes	
The student at the completion of the course will be able to:	
1. Develop understanding of Brands & Brand Identity Design.	
2. Understand how to approach and develop branding and collaterals.	

Course Code: DNE353	Course Title: Introduction to Film & Script Writing
Course Outcomes	
The student at the completion of the course will be able to:	
1. Understanding Of Scriptwriting And Video.	
2. Creating A Screenplay.	
3. Write a screenplay for and create and edit a short film.	

Course Code: DNE354	Course Title: Complex Product Design
Course Outcomes	
The student at the completion of the course will be able to:	
1. Design technically complex products with sound demonstration of design skills as well as dealing with technical complexity	
2. Integrate knowledge of manufacturing systems into product design	
3. Understand market and customer requirements and translate them into a comprehensive design brief	

YEAR 4

Course Code: DNP406	Course Title: Internship
Course Outcomes	
The student at the completion of the course will be able to:	
1. Learn about the industry and its culture.	
2. Understand teamwork and working with different units of an institution.	
3. Real time exposure to working in a design studio.	

Course Code: DNC402/DNG405	Course Title: Social Design A/B
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Course Outcomes	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. Understand the importance of participation of each stakeholder in design. 2. Create a project based on in-depth analysis via participation of local populace in a rural community. 	

Course Code: DNC401	Course Title: Design Management & Entrepreneurship
Course Outcomes	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. Understand aspects of the business of design. 2. Gauge what makes a design profitable. Understand strategies of production and scaling. 3. Recognize types of intellectual property and its application and importance in design. 	

Course Code: DNE403	Course Title: Copy-Writing
Course Outcomes	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. Understand the importance of copy in executing good design communication 2. Support design work with the use of effective copy 	

Course Code: DNE404	Course Title: Electricals & Electronics
Course Outcomes	
The student at the completion of the course will be able to:	
<ol style="list-style-type: none"> 1. To Make Students Understand Critical Non-Ideal Effects In Electronic Devices and Systems And How To Address Such Effects 2. Enabling Them To Design And Construct Physical electronic Circuits That Operate As Desired. 	

Course Code: DNP452	Course Title: Design Dissertation
Course Outcomes	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● Plan and execute a design project that deals with systems ● Plan and design modular solutions that can be customized 	

Course Code: DNC451	Course Title: Colloquium
Course Outcomes	
The student at the completion of the course will be able to:	
<ul style="list-style-type: none"> ● Present their Project in a professional manner as is expected in the industry ● Should be able to communicate the salient points of their design process 	

COURSE ABSTRACTS

FIRST SEMESTER

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	First
Subject: Design					
Course Code:	DNC101	Course Title:	Design Sketching		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Fundamentals of sketching ● Understanding of freehand drawing techniques ● Basic understanding of sketching tools ● Understanding of one, two Point Perspective, Shading rendering ● Anatomy drawing 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Design Sketching Type of pencils and its use, line weight and variation, construction lines, hand movement exercise, grading exercise. Freehand straight lines, smooth curves, ellipses, ellipses in minor axis.				5
II	Freehand straight lines, smooth curves, ellipses, ellipses in minor axis,				5
III	Perspective sketching- Ground line, station point etc, Above eye level and below eye level, One point perspective and two point perspective Indoor and outdoor perspective drawing, Texture and Pattern, Figure in motion, detailed objects ,observing and drawing details of natural and manmade objects, Thumbnail sketches and quick studies.				15
IV	Drawing of objects outdoors. Exercises for improving observation and visual memory. Detailed drawing/Object drawing				15
V	Human Anatomy- Muscle structure, 7.5 head figure, hand, feet, ear, nose				20
Suggested Readings:					
<ol style="list-style-type: none"> 1. Design Drawing by Francis D.K Ching & Steven P. Juroszek, Wiley 2. Rendering with pen & Ink by Robert W. Gill, W. Norton & co inc 3. Sketching : The basics by Roselien Steur 4. Anatomy & Drawing by Victor Perard 5. How to Draw: Drawing and Sketching objects and Environments your imagination by Scott Robertson 					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations

Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
SWAYAM OR NPTEL COURSE TITLE HERE + LINK	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	First
Subject: Design					
Course Code:	DNC102	Course Title:	Analytical Drawing		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Use of Tools- Straight Edge Ruler and set Square ● Understand 2D and 3D forms using freehand construction ● Principles of geometric construction ● Aim is to encourage students to observe and evolve geometric patterns and both micro and macro levels. 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Use of tools Straight Edge Ruler and set Square , T Squares, Compasses, pencils etc . Construction will include lines, angles, polygons, derivations, curvilinear shapes.includes use of to aid geometric drawing				15
II	Drawing various kinds of straight lines, including those that connect random points. Further assignments involve the analysis of forms and objects into basic construction principles in one's mind and then using that to create an accurate representation on paper.				15
III	Depictions of 2D and 3D forms using freehand construction techniques while encouraging them to look at forms in a critical, deconstructive manner.				15
IV	Use of isometric grids and architectonic explorations will help students strengthen their analytical drawing skills further. Introduced to the concept of the Fibonacci series, the golden ratio, divine proportions etc Exploring straight lines with variations in weight. Connecting points in space. Making cubes, ellipses, cylinders & spheres freehand, using analytical methods. Making revolved forms based on a defined side profile (bottles, vessels). Representing thickness and flanges; Adding details like handles, spouts. Isometric grids and architectonic forms. Proportional transformation of form based on grids. Analyzing complex forms into basic geometry and then 'constructing' them freehand . Additive and subtractive forms in drawing analytically.				15
Suggested Readings:					

1. Design Drawing by Francis D. K. Ching and Steven P. Juroszek, Wiley	
2. Freehand Drawing For Architects and Interior Designers by Magali Delgado Yanes	
3. Perspective and Sketching for Designers by Jessica Newman	
4. Geometry of Design: Studies in Proportion and Composition by Kimberly Elam	
5. Shell foundations: geometry, analysis, design and construction by N. P. Kurian	
6 .Geometry of construction by T.B. Nichols and Norman Keep	
This course can be opted as an elective by the students of following subjects:	Open for all
Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
SWAYAM OR NPTEL COURSE TITLE HERE + LINK	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	First
Subject: Design					
Course Code:	DNC103	Course Title:	Colour & Composition		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Understand Elements & Principles of Design ● Understand Color Theory ● Understand Gestalt Theory ● Translation of the abstract into 2D Form 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Basic dot, transforming to a line, shapes and other two dimensional manifestations like patterns and texture. The emphasis will be on two dimensional (2D) exploration. Form exploration will include geometric and organic forms though the two will be differentiated and taught to explore and express abstract concepts with the use of basic forms.				15
II	Creating patterns & textures using basic forms will also be explored. It will be important to build sensitivity to use of elements in terms of shape, number, size, proportion etc. White space as a design tool will be explored and employed to achieve visual equilibrium. Movement in 2D form is also to be studied through a single representation and through multiple panels.				20
III	Color theory (value, shade, hue etc), creation of color variation (additive, subtractive etc), various color wheels and their derivatives (complimentary, triads etc) color scales, color interaction etc.				20

IV	Gestalt theory and its principles-Principle of proximity. Principle of closure, Principle of similarity, Principle of continuity.Principles of perception,Principle of organization, Principle of symmetry, its use in visual communication.	20
V	Composition Principles- Balance, contrast, Emphasis, movement, pattern, rhythm, unity/variety. Rule of third, golden section, golden triangle, golden spiral.	15
Suggested Readings:		
<ol style="list-style-type: none"> Design Basics by David A. Lauer and Stephen Pentak Design Element : Understanding the rules and knowing when to break them by Timothy Samara Elements of Design: Form & Color by HK Vyas Color, Form and Shape by Birren Goethe's Theory of Colors by Johann Wolfgang von Goethe Color Interaction with a Three Dimensional Form by HK Vyas Color: A Workshop for Artists and Designers by David Hornung 		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	First
Subject: Design					
Course Code:	DNG104	Course Title:	Materials & Workshop Skills		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> Exploring the use of materials. Understand material properties. Materials explored will include Plaster of Paris, Wood, Metal Sheet and Polystyrene & Acrylic. Use of Hand tools. Transform material properties into function. 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Use of hand tools. Material study like wood,plaster of paris, metal sheet,				15

	Cement, Polystyrene, Acrylic sheet etc.	
II	Exploring the use of materials as per their innate properties and functions derived from them. Materials explored will include Plaster of Paris, Wood, Metal sheet, Polystyrene, Acrylic etc .	15
III	Theoretical aspects of these materials and explore practical aspects like physical properties, weathering, manipulation etc.	15
IV	Explore new form and functions using materials in combination and alone.	15
Suggested Readings:		
1. Carpentry for Beginner- Charles Harold Hayward 2. Plaster of Paris: Techniques from scratch paperback by Reid Harvey 3. Understanding wood: A craftsman's guide to wood technology by R Bruce Hoadly 4. Exquisite modular origami by Meenakshi Mukerji 5. Ornamental origami: Exploring 3D geometric design		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	First
Subject: Design					
Course Code:	DNS105	Course Title:	Creative Thinking		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> Understand the role of creativity and innovation in your own work and in other disciplines. Understand the importance of diverse ideas, and to convey that understanding to others. 					
Credits:	2	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-1		
Unit	Topics				No. of Lectures
I	Introduction to design thinking. The five stages of design thinking Stage 1: Empathize—Research Your Users' Needs. Stage 2: Define—State Your Users' Needs and Problems. Stage 3: Ideate—Challenge Assumptions and Create Ideas. Stage 4: Prototype—Start to Create Solutions. Stage 5: Test—Try Your Solutions Out.				10

II	How to improve creative thinking. Random Input; Problem Reversal; Ask Questions; Applied Imagination - Question Summary; Lateral Thinking; Six Thinking Hats; The Discontinuity Principle; Checklists; Brainstorming; Forced Relationships/Analogy; Attribute Listing; Morphological Analysis; Imitation; Mindmapping; Storyboarding; Synectics; Metaphorical thinking; Lotus Blossom Technique.	15
III	Aids and barriers to creativity.	5
Suggested Readings:		
1. The Art of Creative Thinking : Rod Judkins 2. The 4 lenses of innovation; a power tool for creative thinking : Rowan Gibson 3. Techniques for Creative Thinking; Robert Harris 4. The Do It Yourself Lobotomy : Tom Monahan		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

SECOND SEMESTER

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	Second
Subject: Design					
Course Code:	DNC151	Course Title:	Design Sketching II		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Emphasis on addition and creation of detail while drawing ● Generate more complex perspective views including 1, 2 point ones in freehand drawing. ● Rendering Techniques. ● Use of Pens. 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):			L-P-T:	1-0-3	
Unit	Topics				No. of Lectures
I	Freehand straight lines, smooth curves, ellipses, ellipses in minor axis. Pen sketching(Ball, gel, Ink).				

II	Perspective Terminology like Ground line, station point etc, Perspective drawing above eye level and below eye level exercises, one and two point perspective- indoor and outdoor perspective	
III	Still life drawing, Details objects in ball pen	
IV	Human Anatomy- Head(Male and Female), 7 and 1/2 head body(male and Female), Ear, Eyes, lips, Nose,Hand, feet, Figure in Motion.	
Suggested Readings:		
1. Anatomy and Drawing by Victor Perard 2. Design Drawing by Francis D. K. Ching and Steven P. Juroszek, Wiley 3. How to Draw: drawing and sketching objects and environments from your imagination by Scott Robertson 4. Rendering with Pen and Ink by Robert W. Gill, W Norton& Co Inc 5. Sketching: The Basics by RoselienSteur		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	Second
Subject: Design					
Course Code:	DNG154	Course Title:	Introduction to Photography & Computer Graphics		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Basic Knowledge of photography, camera Lens, focal length, exposure (shutter speed, aperture, ISO), depth of field. ● Fundamental of software, basic knowledge of software like- adobe photoshop, adobe indesign, adobe Illustrator. ● Understand software tools 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Understand Image: Types of shots: distance, angle and movement; digital image basics: image format, resolution, aspect ratio, Pixels, DPI and PPI; composition and aesthetics: rules and guidelines; visual element and principles; timing and decisive moment; photo critique; prominent photographers.				15

II	Introduction to digital photography & technicalities: Introduction to digital photography, digital cameras How camera works; Exposure: shutter speed, aperture, ISO; arriving at proper exposure, depth of field, white balance, understanding histograms Photography techniques: soft focus, long exposure, short exposure, multiple exposures, time-lapse photography; Understanding lenses: wide angle lenses, telephoto lenses, and macro lenses, image sensor: types of image sensors, size and aspect ratios, image formats, image.	15
III	Graphical software such as photoshop, indesign, illustrator. vector and raster graphics. Software interface like menu bar, options bar, tool panel, document window. Graphic Design Concepts & Practices:- 1-Elements of design, 2- Typography, 3- Color, 4- Layout, 5- Information Hierarchy, 6- Industry standard design- Adobe InDesign, Photoshop, and Illustrator	15
IV	Assignments related to Adobe Photoshop, Adobe Indesign, Adobe Illustrator. Adobe Photoshop- Retouch photos, create graphics etc. Adjust color, contrast etc. Prepare images for use on the web or in print. Adobe Illustrator- Create graphics: logos, icons, patterns, packaging etc. Draw vector graphics for web and print. Adobe Indesign-Create layouts with text, color, and graphics. Create multi-page documents such as brochures, books, magazines etc. Prepare files for final output, such as a print or PDF.	15
Suggested Readings:		
1. A History of Photography by Jean-Claude Lemagny and Andre Rouille 2. Photography: A Cultural History by Mary Warner Marien 3. Photography: The Definitive Visual History by Tom Ang 4. Adobe Illustrator CC Classroom in a book by Brian Wood 5. Adobe Photoshop CC Classroom in a book by Andrew Faulkner & Brie Gyncild 6. Adobe InDesign CC Classroom in a book by Adobe Creative Team		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	Second
Subject: Design					
Course Code:	DNC153	Course Title:	Geometry & Form in Space		

Course Outcomes:		
The student at the completion of the course will be able to:		
<ul style="list-style-type: none"> ● Change 2D into 3D forms ● introduced to the concept of geometric and organic volumes. ● Properties of basic solids like cube, cone, pyramid, cylinder and prism ● Platonic and Archimedean solids 		
Credits:	4	Core
Max. Marks:	100	Min. Passing Marks: 30
Total No. of Lectures-Tutorials-Practical (in hours per week):	L-P-T:	1-0-3
Unit	Topics	No. of Lectures
I	Introduced to the concept of geometric and organic volumes, how to generate them and further, how to evolve them into new and original 3D forms.	15
II	Solids will be broken into surfaces, edges and apexes to understand inter relations. Properties of basic solids like cube, cone, pyramid, cylinder and prism	15
III	Platonic and Archimedean solids.	15
IV	The concept of 'duals' and truncations will be introduced and analyzed with 3D paper models.	15
V	Categorizing all known and related terms into a structural tree of geometry. Drawing precise straight lines with varying weight. Parallel lines using set-squares. Parallel curved lines, tangential curves, developing patterns using compass. Bi-section of a line with compass, Bisection of angles with compass, Proportionate division of lines with parallel lines. Perpendicular to a straight line, Parallel lines at specified distances, tangent to a circle. Progressive Circles touching each other within angles. Triangle, Square Pentagon, Hexagon and Octagon with set square and T-square with protractor for exterior angle division.	30
Suggested Readings:		
<ol style="list-style-type: none"> 1. Design Basics by David A. Lauer and Stephen Pentak 2. Design Elements: Understanding the rules and knowing when to break them by Timothy Samara 3. Universal Principles of Design by William Lidwell, Kritina Holden and Jill Butler, Rockport Publishers 4. Elements of Design: Form & Color by HK Vyas 5. Color Influencing Form by Roy Osborne 6. Color, Form and Space by Birren 		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	Second
Subject: Design					
Course Code:	DNC152	Course Title:	Design Concerns		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● A broad overview of design & creative approaches to problem solving ● Ability to inter-relate concepts 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	A broad overview of design & creative approaches to problem solving				15
II	Study of the rationale behind design which introduces a systematic design process, an overview of the practice of design, the societal impact of design, critical issues and the relationship of design to its socio-cultural environment.				15
III	The aim will be to try and break the hold of conventional educational models and structures and encourage a more left-brain oriented approach to problem solving.				15
IV	Practice empathy in applying a human-centered approach to design techniques, such as user research, user experience, prototyping, and journey mapping				15
V	Project on solving a basic design problem from students' immediate environment, using all steps of the design process				30
Suggested Readings:					
1- 101 Design Methods: A Structured Approach for Driving Innovation in Your Organization by Vijay Kumar					
2- Change by Design by Tim Brown					
3- Design Thinking: Process and Methods Manual by Robert Curedale					
4- Solving Problems with Design Thinking - Ten Stories of What Works by Jeanne Liedtka					
5- The Art Of Innovation: Success Through Innovation the IDEO Way by Tom Kelley					
6- The Design Way: Intentional Change in an Unpredictable World by Harold G. Nelson & Erik Stolterman					
7- The Ten Faces of Innovation by Tom Kelley					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
SWAYAM OR NPTEL COURSE TITLE HERE + LINK					
Further Suggestions:					
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.					

Programme/ Class:	Bachelor of Design (4 years)	Year:	First	Semester:	Second
Subject: Design					
Course Code:	DNS155	Course Title:	History of Design		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Understand the history of design as a distinct discipline ● History of design in the West ● History of design in the Indian context 					
Credits:	2	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-1		
Unit	Topics				No. of Lectures
I	Western Context: The chronology of design movements, from Arts & Crafts movement to postmodern design. Focus on the origins of formal design education in BauHaus. Study of design history through artifact analysis and analysis of services, interactions, policies, institutions and legal and technical systems as well as physical objects and spaces.				15
II	Exploring the design tradition in India and its uniqueness. Advent of design and design education in India. Links with handicrafts and artisans. Celebrated Indian designers.				15
Suggested Readings:					
<ol style="list-style-type: none"> 1. The India Report by Charles & Ray Eames 2. Elizabeth Cumming and Wendy Kaplan, The Arts and Crafts Movement, London: Thames and Hudson, 1991 3. Alastair Duncan, Art Nouveau, London: Thames and Hudson, 1994 4. Alastair Duncan, Art Deco, London: Thames and Hudson, 1988 5. Peter Dormer, Design Since 1945, London: Thames and Hudson, 1993 6. Richard Hollis, Graphic Design. A Concise History, London: Thames and Hudson, 1994 					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
SWAYAM OR NPTEL COURSE TITLE HERE + LINK					
Further Suggestions:					
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.					

THIRD SEMESTER

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Third
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Subject: Design			
Course Code:	DNC201	Course Title:	Introduction to Typography
Course Outcomes:			
The student at the completion of the course will be able to:			
<ul style="list-style-type: none"> ● Fundamental of typographic principles ● Elements of typography like terminology & measurement, history and evolution of type, printing technologies. 			
Credits:	4	Core	
Max. Marks:	100	Min. Passing Marks: 30	
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3
Unit	Topics		No. of Lectures
I	Typeface choice :- Kerning, Paragraph indication, Type size, Weight, Type on image/screen, X-height H. Capitalization, Display initials, Line length, Stance, Word emphasis M. Leading, Alignment, Text wraps, Mixing typeface, Hierarchy, Reverse text, Letter/word space, Type distortion.		15
II	Study of Typography, History, Classification, Anatomy and usage of various letterforms. Theoretical and applicable principles of communicating with letterforms. Multilingual Typography. Expressive Typography. Compositions with type.Exploration of three dimensional features of letter forms. Typography in different contexts like Books, Mailers, New media, Posters, Signages, Motion graphics etc. Study of grids and layouts.		15
III	Serifs and Sans-Serifs Types of Serifs . Type designers & Lettering artists.		15
IV	Grids in page layout and composition, Grids for lettering, One letter composition.		15
Suggested Readings:			
<ol style="list-style-type: none"> 1. Thinking with Type: A Critical Guide for Designers, Writers, Editors, & Students, Ellen Lupton 2. The Elements of Typographic Style, Robert Bringhurst 3. The Complete Manual of Typography, James Felici 4. Stop Stealing Sheep & Find Out How Type Works, Erik Spiekermann 5. Typography: Macro + Micro Aesthetics (Fundamentals of typographic design) Willi Kunz, Niggli 			
This course can be opted as an elective by the students of following subjects:			Open for all
Suggested Continuous Evaluation Methods:			Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.			Open for all
Suggested equivalent online courses:			
SWAYAM OR NPTEL COURSE TITLE HERE + LINK			
Further Suggestions:			
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.			

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Third
Subject: Design					
Course Code:	DNG206	Course Title:	Advanced Photography		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● The aim is to build skills as well as sensitivity to photography ● In Depth photography skill ● Communication of ideas and context 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Landscape & Architectural Photography: Picture framing, camera angles, Tripods and their importance, types of lenses and suitability for subjects, Vantage points				15
II	The importance of foreground interest and how background imagery influences photos, recommended gear and Camera techniques, Lighting and lighting equipment for indoors and outdoors.				15
III	Macro photography: Concept of bokeh and how it may be captured; Effects of light in macro photography, Magnification & reproduction ratios, True Macro Vs Close-Up, Macro Photography with regular lenses, Depth of field and shutter speed experiments, Directional light and how to manipulate it, Avoiding lens flares.				15
IV	Portrait Photography: In a studio and non-studio setting, considerations, tricks and light study, capturing identity and personality in portraits, creating empathy, working with subjects and creating comfort.				10
V	Post Processing: Digital corrections in photography, Digital Dark Room Workflow.				5
Suggested Readings:					
<ol style="list-style-type: none"> 1. Advance Photography by M. Langford 2. Applied Depth of Field by Blaker 3. Landscape Photography by H. Angel 4. Photomacrography: An introduction by W. White 5. Visual Aids and Photography in Education by Langford 					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all

Suggested equivalent online courses:
SWAYAM OR NPTEL COURSE TITLE HERE + LINK Basic of Photography by Dr. Narayan Patidar Devi Vishwavidyalaya, Indoor https://onlinecourses.swayam2.ac.in/cec19_ge02/preview
Further Suggestions:
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Third
Subject: Design					
Course Code:	DNS207	Course Title:	Film Appreciation		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> • Aimed at exploring the value of film viewing in context of Design • Understand the way that content, form, and contexts work together to create meaning in film 					
Credits:	2	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T	1-0-1		
Unit	Topics				No. of Lectures
I	Movies and Their Roles in our Lives. Elements of a Film - Story, Narrative Structures, & Audience Semiotics and Cinematic Terms. Film Screening and Discussion on that film.				10
II	Introduction to different Genres of Films (Animation, Adventure, Horror, Suspense, Drama, Romance etc). Familiarizing with World films and filmic movements (French films, Japanese films, Hollywood films, Indian films, Italian films, Iranian films etc., Italian Neorealism, French New wave, Western, German Expressionism etc).				10
III	Literary Elements in Film. Themes and Symbolism. Mise enScène - Settings, Props and Costumes Acting, Cinematography, Lighting. Editing, VFX, Sound.				5
IV	Criticism: Weighing the Balance. Film Screenings and Discussions.				5
Suggested Readings:					
<ol style="list-style-type: none"> 1. Understanding Movies: Louis Giannetti 2. Film Studies: An Introduction: Ed Sikov 3. Understanding the Film: An Introduction to Film Appreciation: Jan Bone and Ron Johnson 					
This course can be opted as an elective by the students of following subjects:					Open for all

Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
SWAYAM OR NPTEL COURSE TITLE HERE + LINK Film Appreciation, IIT Madras-Dr Aysha Iqbal Viswamohan_ https://nptel.ac.in/courses/109106086	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Third
Subject: Design					
Course Code:	DNE202	Course Title:	Illustration		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> Understand the basic approach to drawing and composition as a means of story-telling or information giving. Effectively communicate an idea, explain a concept or tell a story through pictures . 					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Introduction to traditional Illustration, Introduction to various techniques of illustration.				15
II	Mediums Exploration like Watercolor. Charcoal, pen, Ink, oil pastels, dry Pastels, poster colors etc . Different techniques- wet on wet, underpainting, Gradients and Color Blending, Layering Watercolors, Dry Brush, Lifting Color, Watercolor Blooms etc.				15
III	Live sketching - Environmental Studies, Plants, Our Surroundings , animals, vehicles etc				15
IV	Book illustration, editorial, sequential art, concept art, character development.				15
Suggested Readings:					
<ol style="list-style-type: none"> Creative illustration by Andrew loomis The artist's guide to illustration The Illustrators : The British art of illustration 1837-2011 100 Great Children's Picture Books by Martin Salisbury 4th Auction- Original Comic Art and Illustration Illustration Studio- Urban Design Associates Illustration: A Theoretical & Contextual Perspective by Alan Male 					
This course can be opted as an elective by the students of following subjects:					Open for all

Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
SWAYAM OR NPTEL COURSE TITLE HERE + LINK	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Third
Subject: Design					
Course Code:	DNE204	Course Title:	Publication Design & Printing		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Understand the process of printing. ● Fundamentals of page layout ● Explore Prints and posters ● Development of skills and advanced knowledge of publishing software, with emphasis on the maintenance of visual continuity in documents for publication 					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Publishing History, the act or process of producing (a printed work) and selling it to the public, printed work (as a book or magazine) made for sale or distribution.				15
II	Combining Type and Images, Grids, Guides, and Aligning Objects				15
III	Define advanced publishing concepts; design and produce a project; create and maintain visual continuity in a document; and demonstrate advanced levels of skill in layout, design, and production using industry standards.				15
IV	Users: Identify the user groups that your product will target. User Survey: You are free to use internet resources for user survey and field work but it is essential to speak to at least a few real users for the purpose of this project.				15
V	All aspects of its design, including the layout, format, selection of fonts, colors etc. should be incorporated into the final prototype				60
Suggested Readings:					
<ol style="list-style-type: none"> 1. Design Research: Methods and Perspectives by Brenda Laurel and Peter Lunenfeld. 2. Book Design By Andre Haslam 3. On Book Design by Richard Hendel 4. Bookmaking: Editing, Design, Production by Marshall Lee 					
This course can be opted as an elective by the students of following subjects:					Open for all

Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
SWAYAM OR NPTEL COURSE TITLE HERE + LINK	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Third
Subject: Design					
Course Code:	DNE203	Course Title:	Form Derivation I		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Introduction to principles of form and aesthetics ● Principles of two dimensional form and three dimensional form ● Generating new form and application in product design 					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):			L-P-T:	1-0-3	
Unit	Topics				No. of Lectures
I	How form can be morphed and manipulated using various criteria and methodological tools like radii manipulation, formal transition, edge treatment etc				15
II	Explore how new forms can be generated, existing forms can be modified, and explore the transition phases between two distinct forms. Attributes and metaphors that can be given to forms, both in 2D and 3D.				15
III	Sketching to express ideas is essential for this module. And the sketches will be translated to models for some of the assignments.				15
IV	Material Exploration and model making will include Thermocol, MDF, polystyrene and metal wire. The use of color will be explored in the 2D models for this course.				75
Suggested Readings:					
<ol style="list-style-type: none"> 1. Hannah, Gail Greet; Elements of Design, Princeton Architectural Press 2. Byers, Mel; The Design Encyclopedia, Publisher: John Wiley & Sons Publications 3. Lidwell, W., Holden, K., and Butler, J., Universal Principles of Design 4. Evans, P., and Thomas, M., Exploring the Elements of Design 					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations

Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
SWAYAM OR NPTEL COURSE TITLE HERE + LINK	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Third
Subject: Design					
Course Code:	DNE205	Course Title:	Simple Product Design		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Understand form derivation, ergonomics and material studies in the context of tangible products ● Designing simple products that meets user needs. 					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Users: Identify the user groups that your product will target. Study of ergonomics and human factors. User Survey: You are free to use internet resources for user survey and field work but it is essential to speak to at least a few real users for the purpose of this project.				15
II	Market Survey: What products are available in the niche that you have selected in India and abroad?				15
III	Materials: You are free to use/specify any material for your design, keeping the user in mind Processes: You are free to choose the hand-made or machine-made process, keeping the manufacturing numbers in mind.				15
IV	Model: A finished model is essential for this project. It may be a working prototype if time and workshop permit otherwise a 1:1 block model is to be made.				60
V	User Testing: It is important to try out your concept model with actual target users and document the process through relevant photographs.				15
Suggested Readings:					
<ol style="list-style-type: none"> 1. Design Research: Methods and Perspectives by Brenda Laurel and Peter Lunenfeld. 2. Research Design: Qualitative, Quantitative and Mixed Methods Approaches by CRESWELL. 3. 101 Design Methods: A Structured Approach for Driving Innovation in Your Organization by Vijay Kumar. 					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					

SWAYAM OR NPTEL COURSE TITLE HERE + LINK
Further Suggestions:
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.

FOURTH SEMESTER

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Fourth
Subject: Design					
Course Code:	DNC251	Course Title:	Digital 3D Modeling		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Understand 3D Software ● Learn 3D modeling, texturing, lighting, camera, rendering. ● Basic animation- keyframe animation & rendering 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):			L-P-T:	1-0-3	
Unit	Topics				No. of Lectures
I	Introduction to software, Modeling with Polygons, using the graphite, working with XRefs, Building simple scenes, Building complex scenes with XRefs, using assets tracking, deforming surfaces & using the mesh modifiers, modeling with patches & NURBS				15
II	3D modeling Product modeling, Object Modeling, Interior etc.				15
III	Lighting & Camera -Configuring & Aiming Cameras, camera motion blur, camera depth of field, camera tracking, using basic lights & lighting Techniques, working with advanced lighting, Light Tracing, Radiosity, video post, mental ray lighting etc.				30
IV	Animation - Creating Keyframes, Auto Keyframes, Move & Scale Keyframe on the timeline, Animating with constraints & simple controllers, animation Modifiers & complex controllers, function curves in the track view, motion mixer				30
V	Rendering with V-Ray V-ray light setup, V-ray rendering settings, HDRI Illumination, Fine-tuning shadows, Final render setting etc.				30
Suggested Readings:					
<ol style="list-style-type: none"> 1. The animator's Survival Kit by Richard Willams 2. The Animation Book: A Complete Guide to Animated by Kit Laybourne 3. Design for 3D Printing: Scanning, Creating, Editing, Remixing, and Making in Three Dimensions by Bertier Luyt, Samuel N. Bernier, and Tatiana Reinhard 					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all

Suggested equivalent online courses:
SWAYAM OR NPTEL COURSE TITLE HERE + LINK 1- Animations by Dr. Abhishek Kumar, Banaras Hindu University(BHU), Varanasi https://onlinecourses.swayam2.ac.in/cec20_cs08/preview 2-Graphics & Animation Development by Er. Shano Solanki, National Institute of Technical Teacher Training & Research, Chandigarh. https://onlinecourses.swayam2.ac.in/ntr22_ed11/preview
Further Suggestions:
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Fourth
Subject: Design					
Course Code:	DNC252/DNG255	Course Title:	Interaction Design A/B		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> • Basic Concepts in Human Computer Interaction. • Basic Knowledge about principles and method of Interaction design • Aims at imparting knowledge and furthering research into the domain of designing interactive experiences in media, products and computer design applications. 					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Design Fundamentals This course provides an introduction to visual communication principles and design processes. User Centered Design Students will explore topics and processes of interaction design through the lens of human physiology and behavior. Projects will be developed to allow students to strengthen collaborative and design skills while integrating people's needs into the design process. Interactions, Media, Senses 1. Designing interactions for the physical, cognitive and social environments of the user. 2. Medias and co-evolution of technology Understanding design in the context of digital, time based products with data storage, connectivity, sensors, actuators and multi-modal displays. 3. Study of how people perceive, understand, use and experience interactive objects and spaces.				30
II	Design methodology for complex products, services and events: Design of integrated systems, products for future use, products to be used in groups, devices used in public places, design of multi-modal interfaces, expressive interfaces, products that enrich user experience				30

III	The course takes an interdisciplinary approach drawing upon product design, visual communication, information architecture, cognitive psychology and computer science. The focus is on working collaboratively in groups to solve design problems.	30
IV	Interaction Medias 1. Introduction to time media, video, audio, games 2. Storytelling in an interactive medium 3. Design of multi-modal, sound and conversational interfaces 4. Building interactive installations and exhibition spaces	30
Suggested Readings:		
1. Beebe, James; Rapid Assessment Process; Rowman & Littlefield (2001) 2. Beyer, Hugh; Holtzblatt, Karen; Contextual Design: Defining Customer Centered Systems; Morgan Kaufmann (1997) 3. Hackos, JoAnn T.; Redish, Janice C.; User and Task Analysis for Interface Design; Wiley (1998) 4. Handwerker, W. Penn; Quick Ethnography; Altamira Press (2002) 5. Cooper, Alan; Reimann, Robert; About Face 2.0 the Essentials of Interaction Design; Wiley (2003)		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Fourth
Subject: Design					
Course Code:	DNS256	Course Title:	Design Exposure Visit		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Develop sensitivity to design in our environment ● Develop sensitivity to socio-cultural contexts of design ● Field learnings and experiences in design 					
Credits:	2	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	0-0-2		
Unit	Topics				No. of Lectures
I	The Design Exposure Visit module is meant to expose students to field experiences of multiple kinds. There should be visits to manufacturing facilities to help students understand what mass production entails. If possible, visits to smaller manufacturing set ups should also be included to help students mentally compare the two. There should be visits to Design Studios to help students understand how design consulting works. A visit to another design institution will help build curiosity and healthy				30

	<p>competition. There should be some field assignments given that help the students dig deeper and take initiative in fact finding and field exploration. Design is a fledgling field yet so a deeper exploration of resources is important, as is awareness of other parallel fields that design works in tandem with, like engineering, printing, production, supply chains etc.</p> <p>The tour can take place in a nearby city or a further away city but it should involve outstation travel to fully immerse students in the experience, without the usual distractions.</p>	
Suggested Readings:		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Fourth
Subject: Design					
Course Code:	DNE253	Course Title:	Moving Graphics & Storyboarding		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Understanding storyboarding and planning ● Basics of after Effects/Premiere keyframe concepts and principles. ● Understand Motion Graphics . 					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Introduction to storyboarding as an essential tool for planning motion graphics and animation forms a part of the course. Students need to be introduced to basic components of storyboards, Rule of Thirds, Foreground, Middle Ground and Background, Developing Drawing Skills, Shot Angles etc need to be explored.				30
II	Introduction of Adobe Aftereffect, Interface like tools, file, etc				30

III	Fundamental Principles of motion graphics	30
Suggested Readings:		
1. After Effects apprentice: Real world skills for the Aspiring Motion Graphics artist (Apprentice Series); Chris & Trish Meyer 2. Animated Storytelling: Simple Steps For Creating Animation Motion Graphics: Liz Blazer 3. Type in Motion: Innovations in Digital Graphics by Jeff Bellantoni & Matt Woolman . 1. 4. The Art of the Storyboard: Storyboarding for Film, TV, and Animation; John Hart 5. Professional Storyboarding: Rules of Thumb; Sergio Paez and Anson Jew		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 years)	Year:	Second	Semester:	Fourth
Subject: Design					
Course Code:	DNE254	Course Title:	Form Derivation II		
Course Outcomes:					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> ● Introduction to advanced principles of form and aesthetics ● Principles of form families and house styles ● Generating new form refining existing forms 					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Form as sculpture, to incorporate intangible attributes; Form as emotion				15
II	Understanding of house styles and key form characteristics; Form as branding				15
III	Form families and house styles				30
IV	Use of advance modeling materials and skills to generate high fidelity form models				30
Suggested Readings:					

1. Gail Greet Hannah, Elements of Design, Princeton Architectural Press	
2. Elam, Kimberly; Geometry of Design: Studies in Proportion and Composition, Princeton Architectural Press	
3. Hall, Edward Twitchell; The Hidden Dimension, Publisher: Anchor Bachelard, Gaston; Jolas, Maria (Translator); The Poetics of Space, Publisher: Beacon Press; Reprint edition, 1994	
This course can be opted as an elective by the students of following subjects:	Open for all
Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
SWAYAM OR NPTEL COURSE TITLE HERE + LINK	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

FIFTH SEMESTER

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Fifth
Subject: Design					
Course Code:	DNC301	Course Title:	Digital Illustration		
Course Outcomes : Reinforcing Illustration Skills in digital medium.					
The student at the completion of the course will be able to:					
1. Create illustrations in a digital environment and learn rendering skills.					
2. Learn use of computers as a medium and as an additional tool for illustrators.					
3. How to translate hand drawn items into digital products					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Introduction to Illustration tools, their interface, Creating a document, adjusting format, area. Understanding the basics concepts of digital illustration vis a vis manual illustration.				
II	Digital Geometry, introduction to and usage of tools to create and transform shapes. Creating Vectors : linear and curved, editing vectors, pattern creation,				
III	Using colours and text to optimize illustrations. Creating colour palettes, working with CMYK and RGB modes				
IV	Types of illustration styles, Flat illustrations, illustrations with gradients, adding volume, tracing elements, working with layers.				
Suggested Readings:					
1. Digital Illustration Fundamentals: Vector, Raster, Waveform, Newmedia With Dicf, Daef And Asnmf ; Wallace Jackson; Apress					
2. Digital Illustration: A Masterclass In Digital Image-Making; Lawrence Zeegen; RotoVlision					
3. Perspective Sketching: Freehand And Digital Drawing Techniques For Artists & Designers; Jorge Paricio; Rockport Publishers; III Edition					

This course can be opted as an elective by the students of following subjects:	Open for all
Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Fifth
Subject: Design					
Course Code:	DNC302/DNG305	Course Title:	Space Design A/B		
Course Outcomes: efficient and economic space design understanding					
The student at the completion of the course will be able to:					
1. Understand physical spaces and the importance of designing them to fit human comfort and wellness.					
2. Importance of space ergonomics and sustainability in space.					
3. Understand layouts, materials and budgets while working with space.					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Introduction to space, functions of space, defining the style of space, knowing and understanding the space and rising. Analyzing the physical and visual space and its previous conditions and influences. Understanding budgeting.				2
II	What is a functional space? Understanding layouts, making space flexible, space distribution, understanding users and objects in space. Creating moodboards, ideas and elevations. Understanding use of materials, finishes and specifications				4
III	Concept of materiality and colours, Direct and indirect light and energy saving, sustainability of space, understanding the ergonomic aspects and designing of healthy spaces for wellness and comfort.				4
IV	Planning and equipping the space, visibility and communication, temporary and permanent spaces within the space, economic valuation of space				3
V	Object selection, furniture selection and styling, Designing graphics for architectural spaces; signs, information, messages in relation with space				2
Suggested Readings:					
1. Towards A New Architecture, Le Corbusier					
2. Sketchup For Interior Design: 3d Visualizing, Designing, And Space Planning, Lydia Cline					
3. Space Planning Basics, Mark Karlen					
This course can be opted as an elective by the students of following subjects:					Open for all

Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
https://onlinecourses.nptel.ac.in/noc22_ar01/preview	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Fifth
Subject: Design					
Course Code:	DNP306	Course Title:	Self Study		
Course Outcomes : help students look at folk art or an informal economic activity in a holistic context and understand how representation is an important mirror of society and culture.					
The student at the completion of the course will be able to:					
1. Successfully work upon and build a research methodology.					
2. Understand cultural, social, economic and material aspects of art forms and informal income generating activities.					
3. Understand documentation and build a cohesive document on completion of the study.					
Credits:	6	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-5		
Unit	Topics				No. of Lectures
I	This project is a documentation of a design, craft, culture etc. related topic. This will help you to look at any design research topic in a holistic context and understand how it is an important mirror of society and culture. The study should include cultural, social, economic and material aspects of the selected topic. The course is also about structuring research and putting it across in a coherent manner. The final output should be in the form of a tangible report, booklet, brochure etc.				
Suggested Readings:					
1. Crafting Indian Scripts by Jaya Jaitly and Subrata Bhowmick					
2. Handmade In India By Aditi Ranjan And M.P. Ranjan					
3. The Artistry of Handwork by Jaya Jaitly					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
Folk And Minor Art In India By Prof. Shatarupa Thakurta Roy, IIT Kanpur					

https://onlinecourses.nptel.ac.in/noc19_hs61/preview
Further Suggestions:
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Fifth
Subject: Design					
Course Code:	DNE303	Course Title:	Design for Immersive Media		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Basic understanding of AR / VR and transmedia technologies					
2. Understanding of hardware and software components of immersive media					
3. Deliver basic designs for immersive environments					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	History & Development of Immersive Media. Multimedia narratives. Social Media and online reading revival, On demand TV and binge watching revolution. Audio immersions, revival of radios and podcast. Content marketing and immersive transmedia storytelling.				5
II	Understanding AR / VR /MR , stereoscopic displays, motion tracking hardware, input devices and computing platforms, VR applications, VR hardware, Case study Oculus Rift and google cardboard. Web VR. Case studies.				5
III	Scope of usage of immersive media in industries like automotive, healthcare, tourism and real estate.				5
IV	Design Project for immersive media				75
Suggested Readings:					
1. Immersive Longform Storytelling: Media, Technology, Audience By David Dowling					
2. Cases On Immersive Virtual Reality Techniques (Advances In Multimedia And Interactive Technologies) By Kenneth C C Yang					
3. Learning Virtual Reality; Tony Parisi; O'Reilly Media, Inc 2015					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
Media Content Production on Multiple Platforms By Krishna Sankar Kusuma, Jamia Millia Islamia https://onlinecourses.swayam2.ac.in/cec20_ge32/preview					
Further Suggestions:					
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.					

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Fifth
Subject: Design					
Course Code:	DNE304	Course Title:	Advanced Prototyping		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Understand methods and ways of prototyping for creating products.					
2. Understand materials and their usage in prototyping and deciding how best they can be used to simulate a real life product with them.					
3. Create a prototype that either looks, feels or functions like the original product.					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Prototyping Basics; Understanding different kinds of models and their applications				3
II	Principles and choices for model making, workflow, space, tools. Understanding materials for prototyping such as paper, foam, polystyrene, thermoplastics, polyurethane, clay, wood				5
III	Modeling Concepts, Types Of Prototypes, Prototyping Cycles, Soft Prototypes, 3d Quick Models, Paper And Quick Mock Up Models, Principle Models				5
IV	Understanding realistic finishes in prototyping through the use of putty and fillers, coatings, plating, paints etc.				2
Suggested Readings:					
1. Prototype To Product; Alan Cohen					
2. Prototyping and Modelmaking for Product Design, Bjarki Hallgrimsson; Laurence King Publishing Ltd					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
Electronics equipment integration and Prototype building By Prof. N.V.Chalapathi Rao, IISc Bangalore https://onlinecourses.nptel.ac.in/noc22_ee25/preview					
Further Suggestions:					
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.					

SIXTH SEMESTER

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Sixth
Subject: Design					
Course Code:	DNC351	Course Title:	Packaging Design		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Understanding of what goes in packaging design.					
2. Understand the importance of packaging innovation on the lines of creating environmentally friendly and sustainable packaging.					
3. Ability to create packaging prototypes along with the visual component utilizing graphic design inputs.					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	What is packaging, packaging types, packaging dynamics, Brand manifestation & product differentiation,				2
II	Concept Creation, Structural Generation And Visual Component Of Packaging, Packaging Study And Analysis, Structural Design, cartons, bottles, tubes, can, tubs & jars, blister packs, gift packs, innovative forms.				6
III	Typography & graphic selection, surface graphics, information layout and hierarchy, language, photography, illustrations and colours, finishes and effects				6
IV	Packaging sustainability, environmental considerations				1
Suggested Readings:					
1. What is packaging design, Giles Calver, RotoVision SA, 2004					
2. Packaging Design by Bill Stewart; Laurence King Publishing					
3. Packaging Design Strategy by Bill Stewart; CRC Press					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
Further Suggestions:					
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.					

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Sixth
Subject: Design					

Course Code:	DNP356	Course Title:	Portfolio Building
Course Outcomes			
The student at the completion of the course will be able to:			
1. Learn to present their work effectively and efficiently to prospective clients and employers.			
2. Learn to organize and present their work, brand themselves and present their work across media.			
3. Create their own portfolio.			
Credits:	6	Core	
Max. Marks:	100	Min. Passing Marks: 30	
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-5
Unit	Topics		No. of Lectures
I	Compilation of all work done so far that demonstrates student's skills and abilities comprehensively in an appropriate digital format, web based or otherwise. Course should include effective documentation of design projects, studio photography of final prototypes, effective copy, building a consistent visual and narrative style etc.		
Suggested Readings:			
1. My Graphic DNA; Portfolio Design & Self- Promotion; by Wang Shaoqiang; Promopress			
2. Drawing for Product Designers (Portfolio Skills: Product Design) by Kevin Henry; Laurence King Publishing			
This course can be opted as an elective by the students of following subjects:			Open for all
Suggested Continuous Evaluation Methods:			Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.			Open for all
Suggested equivalent online courses:			
Further Suggestions:			
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.			

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Sixth
Subject: Design					
Course Code:	DNC352/DNG355	Course Title:	Identity Design A/B		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Develop understanding of Brands & Brand Identity Design.					
2. Understand how to approach and develop branding and collaterals.					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures

I	What is Branding and why is it important?	2
II	Costing of Branding, Planning & Timescales	3
III	Immersion & Discovery, Brand Purpose, Understanding your audience, Brand Brief	4
IV	Design road map, Logo's role in identity, finding your type, brand colors, custom iconography	4
V	Business Stationery, Packaging Design & Print	2
Suggested Readings:		
1. Branding and Product Design; An Integrated Perspective; Monika Hestad 2. Designing Brand Identity: An Essential Guide for the Whole Branding Team by Alina Wheeler; John Wiley & Sons 3. Logo Design Love: A Guide to Creating Iconic Brand Identities; David Airey; New Riders; 2010		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
Brand Management By Preeti Krishnan Lyndem, Indian Institute Of Management Bangalore https://onlinecourses.swayam2.ac.in/imb19_mg04/preview		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Sixth
Subject: Design					
Course Code:	DNE353	Course Title:	Introduction to Film & Script Writing		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Understanding Of Scriptwriting And Video.					
2. Creating A Screenplay.					
3. Write a screenplay for and create and edit a short film.					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Basic Storytelling, What makes a good story well told, division into three acts, The world of the story, Objective & subjective drama				3
II	Screenwriting tools, Protagonist and objective, conflict, obstacles, premise and opening, theme, unity, exposition, characterization, development of story, preparation and aftermath, plausibility, dialogue, visuals				3

III	Dramatic scenes, Rewriting, Dramatic Irony, Elements of the future and advertising, Stage Vs. Screen	3
IV	Planning the project, Previsualization & storyboarding, choosing videotape format, Choosing equipment & camera, Lighting and art direction, Production sound	3
V	Editing hardware, Sound editing and colour corrections, Titling and simple compositions, Rotoscoping and compositing	3
Suggested Readings:		
1. Digital Filmmaking By Mike Figgis; Faber & Faber 2. Screenplay: The Foundations Of Screenwriting By Syd Field; Rhus 3. The tools for screenwriting; David Howard & Edward Marbley; St. Martin's Press, 1993		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Third	Semester:	Sixth
Subject: Design					
Course Code:	DNE354	Course Title:	Complex Product Design		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Design technically complex products with sound demonstration of design skills as well as dealing with technical complexity					
2. Integrate knowledge of manufacturing systems into product design					
3. Understand market and customer requirements and translate them into a comprehensive design brief					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Introduction to Product Design and Development, Product Design Steps and Product Analysis, Profit Consideration, Value Engineering (History, Concept and Definitions), Value Engineering vs. Cost Cutting.				2
II	Creative Thinking, Problem Identification and VEJP, Types of Product Functions, Functional Analysis, Functional Analysis System Technique.				2
III	Function-Cost Relationship – I, Function-Cost Relationship - II, VE Applications in Product Design, VE Tools and Techniques – I, VE Tools and Techniques – II, Behavioral Roadblocks				3
IV	Industrial Design and Product Design, Types of products ID as per ICSID and WIPO, Product Conceptualisation, Physical simulation of a small				4

	system	
V	Gumstix, Beagle, Raqsberry, Arduino, Kit application. Adaption for I/O, Application of CAD tools (dassault, Siemens, Autodesk, McNeil), specifics of Design for production scale-up, Connectors and wiring, Integration and Validation	4
Suggested Readings:		
1. Lawrence D. Miles; "Techniques of Value Analysis and Engineering", 2nd Edition, McGraw-Hill Book Company, Inc. New York.		
2. Larry W. Zimmerman, Glen D. Hart; "Value Engineering", Reprint 1999, CBS Publishers and Distributors, New Delhi		
3. A. K. Chitale and R. C. Gupta, "Product Design and Manufacturing", 3rd Edition, Prentice-Hall of India.		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
Product Design Using Value Engineering By Prof. Inderdeep Singh, IIT Roorkee https://onlinecourses.nptel.ac.in/noc19_me51/preview		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

SEVENTH SEMESTER

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Fourth	Semester:	Seventh
Subject: Design					
Course Code:	DNP406	Course Title:	Internship		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Learn about the industry and its culture.					
2. Understand teamwork and working with different units of an institution.					
3. Real time exposure to working in a design studio.					
Credits:	6	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	0-0-6		
Unit	Topics				No. of Lectures
I	During the internship students should learn the real world skills to be able to develop an individual career plan, create a resume and successfully interview for a job, demonstrate employability skills; including safely and competently working in a design department or design firm. Students will be required to maintain a work log and write a final report.				

Suggested Readings:		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Fourth	Semester:	Seventh
Subject: Design					
Course Code:	DNC402/DNG405	Course Title:	Social Design & Research A/B		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Understand the importance of participation of each stakeholder in design.					
2. Create a project based on in-depth analysis via participation of local populace in a rural community.					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Participatory Rural Appraisal and Community Based Participatory Research, Introductions.				4
II	Tools for Participation, Transects, participatory mapping, mobility maps, resource maps, cultural maps, health maps, literacy maps, seasonal calendars, timelines				6
III	Creation and execution of participatory toolkits and other research tools; Data collection and analysis in participatory design				5
IV	Delivery of Design Project				
Suggested Readings:					
1. Participatory Rural Appraisal: Principles, Methods and Application; N. Narayanasamy;					
2. Community-Based Participatory Research for Health: From Process to Outcomes; Meredith Minkler and Nina Wallerstein; 2003					
3. Participatory Design for Learning: Perspectives from Practice and Research; Betsy DiSalvo, Elizabeth Bonsignore, Carl DiSalvo, Jason Yip; 2017					
This course can be opted as an elective by the students of following subjects:					Open for all

Suggested Continuous Evaluation Methods:	Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
Development Research Methods By Prof. Rajshree Bedamatta, IIT Guwahati https://onlinecourses.nptel.ac.in/noc19_hs59/preview	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Fourth	Semester:	Seventh
Subject: Design					
Course Code:	DNC401	Course Title:	Design Management & Entrepreneurship		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Understand aspects of the business of design.					
2. Gauge what makes a design profitable. Understand strategies of production and scaling.					
3. Recognize types of intellectual property and its application and importance in design.					
Credits:	4	Core			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Introduction To Design Management. Design Thinking. What Is Design Thinking? How Design Thinking Is About More Than Style				5
II	Customer Profiling &; Value Mapping; Identifying Challenges &; Gathering Data; Making Sense Of Your Data.				8
III	Designing & Design Control – Prototyping; Understanding Customers & Making Choices; Finding The Right Business Model, Testing & Creating Alignment; Measuring & Monitoring; Reinventing.				8
IV	Customer Co Creation & Learning Launch; Leading Growth & Innovation In Your Organization				7
V	Intellectual Property, Definition; Copyright, Patent & Trademarks; Other Iprs (Geographical Indications, Plant Varieties, Designs, Trade Secrets, Traditional Knowledge & Traditional Cultural Expression)				2
Suggested Readings:					
1. Design Management: Using Design To Build Brand Value And Corporate Innovation - Brigitte Borja De Mozota					
2. The Fundamentals Of Design Management – Kathryn Best					
3. Design Thinking: Integrating Innovation, Customer Experience, And Brand Value - Thomas Lockwood					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations

Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.	Open for all
Suggested equivalent online courses:	
Further Suggestions:	
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.	

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Fourth	Semester:	Seventh
Subject: Design					
Course Code:	DNE403	Course Title:	Copy-Writing		
Course Outcomes					
The student at the completion of the course will be able to:					
1. Understand the importance of copy in executing good design communication					
2. Support design work with the use of effective copy					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Elements Of Copywriting; Aim, Features, Strategy, Benefits, Audience, Reaction				6
II	Creating Marketing Communications Messages; Basics Of Strategy Development, Creative Thinking And Marketing Communications Tools				8
III	Understanding the process; understanding what works; Creation Of Advertising Messages For Both Print And Electronic Media				8
IV	Utilizing your copywriting skills, Creating your own copy				8
Suggested Readings:					
1. Writing And Script A Very Short Introduction And Andrew Robinson					
2. The Copywriter's Handbook: A Step-By-Step Guide To Writing Copy That Sells By Robert W. Bly					
3. The Adweek Copywriting Handbook; Joseph Sugarman; John Wiley & Sons, Inc.,2007					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
SWAYAM OR NPTEL COURSE TITLE HERE + LINK					
Further Suggestions:					
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.					

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Fourth	Semester:	Seventh
Subject: Design					
Course Code:	DUNE404	Course Title:	Electricals & Electronics		
Course Outcomes					
The student at the completion of the course will be able to:					
1. To Make Students Understand Critical Non-Ideal Effects In Electronic Devices and Systems And How To Address Such Effects					
2. Enabling Them To Design And Construct Physical electronic Circuits That Operate As Desired.					
Credits:	4	Elective			
Max. Marks:	100	Min. Passing Marks: 30			
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3		
Unit	Topics				No. of Lectures
I	Basic definitions of Charge, Voltage, Current, Power, Energy				4
II	Resistor(R), Ohm's Law, Ideal Sources, Internal Resistance Of Voltage And Current Sources, Energy transfer, resistor Dissipation				10
III	Circuit Laws, Series And Parallel Connections, Analysis Of Circuits, Utility and Power,				10
IV	Capacitors, Magnetic Fields, and Transformers, Capacitance in space, Magnetic field, Magnetic circuit, Transfer Action				6
V	Delivery of a design project using learnings from the course				
Suggested Readings:					
1. THE FIELDS OF ELECTRONICS, Understanding Electronics Using Basic Physics; Ralph Morrison, JOHN WILEY & SONS, INC. 2002					
2. Basic Electronics; Charles Taylor; Global Media; 2007					
This course can be opted as an elective by the students of following subjects:					Open for all
Suggested Continuous Evaluation Methods:					Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.					Open for all
Suggested equivalent online courses:					
SWAYAM OR NPTEL COURSE TITLE HERE + LINK					
Further Suggestions:					
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.					

EIGHTH SEMESTER

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Fourth	Semester:	Eighth
Subject: Design					
Course Code:	DNP452	Course Title:	Design Dissertation		
Course Outcomes					

The student at the completion of the course will be able to:		
<ul style="list-style-type: none"> Plan and execute a design project that deals with systems Plan and design modular solutions that can be customized 		
Credits:	18	Core
Max. Marks:	100	Min. Passing Marks: 30
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T: 2-0-16
Unit	Topics	No. of Lectures
I	<p>The Design Thesis Project is meant to be a final execution of the Design Process under the guidance of academic & professional mentors. It is a demonstration of both, the understanding of inputs received during 7 semesters of education and also, the preparedness to independently execute design projects.</p> <p>Procedure</p> <ul style="list-style-type: none"> → Submission of Thesis Project Proposal to SOD Design Mentor → Approval of Thesis Project Proposal by SOD → Commencement of Thesis Project (Approximately 4 months) → 1st Compulsory Guide Visit (Within 4-6 weeks of Project Start) → Submission of 3 copies of Project Documentation to SOD → Intimation of Colloquium Date by SOD → Colloquium Jury 	330
Suggested Readings:		
<ol style="list-style-type: none"> 101 Design Methods: A Structured Approach for Driving Innovation in Your Organization by Vijay Kumar Design Thinking: Process and Methods Manual by Robert Curedale Solving Problems with Design Thinking - Ten Stories of What Works by Jeanne Liedtka The Design Way: Intentional Change in an Unpredictable World by Harold G. Nelson & Erik Stolterman 		
This course can be opted as an elective by the students of following subjects:		Open for all
Suggested Continuous Evaluation Methods:		Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.		Open for all
Suggested equivalent online courses:		
SWAYAM OR NPTEL COURSE TITLE HERE + LINK		
Further Suggestions:		
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.		

Programme/ Class:	Bachelor of Design (4 Years)	Year:	Fourth	Semester:	Eighth
Subject: Design					
Course Code:	DNC451	Course Title:	Colloquium		
Course Outcomes					
The student at the completion of the course will be able to:					
<ul style="list-style-type: none"> Present their Project in a professional manner as is expected in the industry Should be able to communicate the salient points of their design process 					
Credits:	4	Core			

Max. Marks:	100	Min. Passing Marks: 30	
Total No. of Lectures-Tutorials-Practical (in hours per week):		L-P-T:	1-0-3
Unit	Topics		No. of Lectures
I	A formal presentation of the Thesis Project in the form of an exhibit: may be in the form of a series of panels, supported by a slide presentation and verbal presentation. Should be able to pick the salient points of the design process that are crucial in communicating the project to a panel, and represent them in the most effective way. Students will also answer questions in a Viva Voce.		60
Suggested Readings:			
1. Anderson, Chris. TED Talks: The official TED guide to public speaking: Tips and tricks for giving unforgettable speeches and presentations. Hachette UK			
2. Van Emden, Joan, and Lucinda Becker. Presentation skills for students. Macmillan International Higher Education			
3. Mandel, Steve. Effective presentation skills. Crisp Publications			
This course can be opted as an elective by the students of following subjects:			Open for all
Suggested Continuous Evaluation Methods:			Assignment Submissions, Class Reviews & Presentations
Course prerequisites: To study this course, a student must have had this subject in class/12th/certificate/diploma.			Open for all
Suggested equivalent online courses:			
SWAYAM OR NPTEL COURSE TITLE HERE + LINK			
Further Suggestions:			
ANY COURSE SPECIFIC OBSERVATION IN TERMS OF OUTCOMES/SUBMISSION/REVIEW/CONNECTION TO OTHER COURSES ETC.			