Course: ARC-901: Architectural Design–IX

<table>
<tr><td>Course Code</td><td>ARC-901</td></tr>
<tr><td>Course Title</td><td>Architectural Design –IX (Research Thesis)</td></tr>
<tr><td>Marks</td><td>900</td></tr>
<tr><td>Teaching per Week</td><td>06 hours/ week</td></tr>
<tr><td>Minimum weeks per Semester</td><td>23 weeks(including class work, examination, preparation, holidays, etc)</td></tr>
<tr><td>Effective From</td><td>Dec. 2019</td></tr>
<tr><td>Purpose of Course</td><td>Research On Architecture Design</td></tr>
<tr><td>Course Objective</td><td>Acquire a strong theoretical foundation, clarity of thought and also to orient the students to structured research in a focused manner.
Develop research capabilities and individual scholarly attitude.
Develop analytical, synthesizing and interpretive skills and be able to present the same in standardized and systematic academic formats.</td></tr>
<tr><td>Course Outcomes</td><td>CO1: Systematically abstract, analyze, synthesize and interpret existing literature.
CO2: Develops a specialized knowledge in a subject area which maybe an extension to the prescribed coursework.
CO3: Builds his his/her capacity to work independently and methodically in a variety of intellectually demanding contexts.</td></tr>
<tr><td>Mapping between COs with PSOs</td><td>
<table>
<tr><th></th><th>PSO1</th><th>PSO2</th><th>PSO3</th><th>PSO4</th><th>PSO5</th></tr>
<tr><td>CO1</td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Pre-requisite</td><td>Diverse perspectives to build an evidence-based, cogent and coherent body of analysis and answers.</td></tr>
<tr><td>Course Content</td><td>Unit 1:
1.1 Selection and research of thrust area
1.1.1 Identification & brief Description of Literature/ library/ case studies to form background study.
1.1.2 Thesis Plan: Identifying aims and objectives (for implementing thrust area in subsequent design proposals), methodology, scope and limitations.
Unit 2:
2.1 Detailed Literature Review of selected Thrust Area
2.1.1 Issue forming the Design Criteria for Thesis Project.
2.1.2 All Literature and Library studies including prescribed</td></tr>
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	standards for selected Thesis Project. 2.1.3 Selection of Site(s) for implementation of Thesis Project. 2.1.4 Selection of case Studies, along with criteria.
Reference Books	-----NA----(depending on topic)
Teaching Methodology	literature self-studies, seminars , juries/reviews
Evaluation Method	Internal assessment – 70% (attendance, case studies, juries/review) External assessment – 30% (University exam- Jury/viva)

Course: ARC-902: Professional Practice

<table>
<tr><td>Course Code</td><td>ARC-902</td></tr>
<tr><td>Course Title</td><td>Professional Practice</td></tr>
<tr><td>Marks</td><td>200</td></tr>
<tr><td>Teaching per Week</td><td>02 hours/ week</td></tr>
<tr><td>Minimum weeks per Semester</td><td>23 weeks(including class work, examination, preparation, holidays, etc)</td></tr>
<tr><td>Effective From</td><td>Dec.2019</td></tr>
<tr><td>Purpose of Course</td><td>Comprehensive Introduction To Architectural Professional Practice</td></tr>
<tr><td>Course Objective</td><td>The objective is to introduce to The architectural profession and its regulatory and statutory bodies.
Develop an understanding of legal liabilities and obligations as an architect and the importance of code of conduct and ethics in professional practice</td></tr>
<tr><td>Course Outcomes</td><td>CO1: Familiarity with the procedures for tendering, arbitration, valuation of works and real estate and aspects of international practice. Proficiency in preparation of projects proposals and presentations for procuring projects.</td></tr>
<tr><td>Mapping between COs with PSOs</td><td>
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<tr><td>CO1</td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Pre-requisite</td><td>Understanding of the Code of Practice in Architecture</td></tr>
<tr><td>Course Content</td><td>Unit-1:
1.1 Organisation of Profession
1.1.1 Introduction to the professional Organisations e.g. the Indian Institute of Architects, the Uttar Pradesh Architects Association.
1.1.2 Their Objectives, working constitution, byelaws, categories of membership, election procedure etc.
1.1.3 Detailed Study of the Architects' Act 1972, Council of Architecture and its role.
Unit-2:
2.1 Professional Conduct, Conditions of Engagement
2.1.1 Conditions of engagement of an architect - Duties: Responsibilities and liabilities of an architect towards the profession and society, Scale of Professional charges and mode of payment etc.,</td></tr>
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	2.1.2 Code of professional conduct and ethics, Need and types of competitions, procedure for conducting competitions. **Unit 3:** **3.1 Tenders and Contracts** 3.1.1 Concept of Contract and essential elements of contract. Tenders, their need and types. 3.1.2 Preparation of tender documents and procedure for awarding tenders and award of projects. 3.1.3 Type of building contracts. 3.2 Preparation of contract document – 3.2.1 General conditions of contract, defect liability period, running & final payment, retention amount and virtual completion. **Unit 4:** **4.1 Office Organisation and Management** 4.1.1 Setting up practice- Business organization, Types of offices proprietorship, partnership, Private Limited etc., Salaried appointments - public sector, private sector. 4.1.2 Basic understanding of Income tax and GST, Basic understanding of Office accounting procedures. 4.1.3 Office Procedure in government organization. **Unit 5:** **5.1 Valuation of Properties** 5.1.1 Fundamental concepts of Valuation 5.1.2 classification and types of valuation 5.1.3 Elements and factors affecting valuation; 5.1.4 Valuation of immovable properties, 5.1.5 Techniques for valuation of landed and building property. **Unit 6:** **6.1 Arbitration Concept and need of Arbitration.** 6.1.1 Law governing arbitration in India – Salient features of the Indian Arbitration Act 1940 and provisions in subsequent amendments. 6.1.2 Role of Arbitrator. 6.1.3 Nature of arbitration. 6.1.4 Appointment of arbitrator/s, Umpire, Conduct, Powers, and duties of arbitrators and umpires, Procedure of arbitration and preparation of awards etc.
Reference Books	1. Dr. Roshan H. Namavati, Professional practice 2. Council of Architecture, handbook of professional document. 3. The Indian Institute of architects, the handbook of Professional Practice. 4. Madhav Devshaktu, Professional Practice.
Teaching Methodology	discussions, seminars , juries/reviews
Evaluation Method	Internal assessment – 70% (attendance, case studies, juries/review) External assessment – 30% (University exam- Jury/viva)

Course: ARC-903: Universal Design

<table>
<tr><td>Course Code</td><td>ARC-903</td></tr>
<tr><td>Course Title</td><td>Universal Design</td></tr>
<tr><td>Marks</td><td>100</td></tr>
<tr><td>Teaching per Week</td><td>2 hours/ week</td></tr>
<tr><td>Minimum weeks per Semester</td><td>23(including class work, examination, preparation, holidays, etc)</td></tr>
<tr><td>Effective From</td><td>Dec. 2019</td></tr>
<tr><td>Purpose of Course</td><td>Sensitizing students towards needs of disabled people and make them capable to design barrier free buildings.</td></tr>
<tr><td>Course Objective</td><td>To study the needs of people with disabilities and provide them barrier free built environment to move about safely and freely and to use the facilities within the built environment.
To create an environment that supports the independent functioning of individuals and participates without assistance, in everyday activities.</td></tr>
<tr><td>Course Outcomes</td><td>CO1: Development of sensitivity and understanding of architectural design elements for creating barrier free built environments.
CO2: Understanding of different types of accessibility and material for disabled persons.
CO3: Knowledge of different signages and planning concepts for disabled persons.</td></tr>
<tr><td>Mapping between COs with PSOs</td><td>
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<tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Pre-requisite</td><td>Design resolution and understanding of bye-laws and standards</td></tr>
<tr><td>Course Content</td><td>Unit 1:
1.1 Introduction
1.1.1 Types of disability, Mobility devices and controls.
1.1.2 Guidelines and space standards for barrier free built Environment for disabled and elderly persons in various buildings such as institutes, hospitals, public spaces, shopping complexes and office buildings etc.</td></tr>
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	1.1.3 Construction and maintenance standards, classifications of buildings and access provisions. **Unit 2:** **2.1 Design** 2.1.1 Design elements within buildings, Site planning, parking, approach to plinth levels, corridors, entrance and exit, windows, stairways, lifts, toilets, signage, guiding and warning systems. 2.1.2 Floor materials. 2.1.3 Design elements outside the buildings - kerb at footpath, road crossing, public toilet, bus stop, toilet booth, and signage. 2.1.4 Provisions for residential buildings and public buildings and places like auditorium, parks, restaurants, railway station. 2.1.4 Access audit and implication in building byelaw.
Reference Books	1. NC State University(1997) Universal Design, Copyright 2. The Center for Universal Design, Version 2.0 3. The John F. Kennedy Center for the Performing Arts., Accessibility Tipsheet: Universal Design Resources on the Web, 2006 (accessed 27.12.2012)(www.kennedy-center.org Similar) Preiser, 4. W.F.E. (2002). Infusing Universal Design into the Curriculum. 5. In Universal Design: 17 Ways of Thinking and Teaching. Edited by Christophersen, J., pp 217-241. Husbanken, Norway. Preiser, W.F.E., & Ostroff, E. (2001). 6. Universal Design Handbook. McGraw Hill, New York.
Teaching Methodology	Theory lectures, Guest lectures, site visits of barrier free built environment
Evaluation Method	Access audits, evaluating systems and tools, design problem Attendance (10%)+ continuous evaluation(70%)+end semester viva(20%)

Course: ARE-904: ELECTIVE

<table>
<tr><td>Course Code</td><td>ARE-904</td></tr>
<tr><td>Course Title</td><td>Elective (Building Science)</td></tr>
<tr><td>Marks</td><td>100</td></tr>
<tr><td>Teaching per Week</td><td>02 hours/ week</td></tr>
<tr><td>Minimum weeks per Semester</td><td>23 weeks (including class work, examination, preparation, holidays, etc)</td></tr>
<tr><td>Effective From</td><td>Dec. 2019</td></tr>
<tr><td>Purpose of Course</td><td>Understanding of inter relation of built environment with material environment also issues of climatic balance in traditional and contemporary built environments</td></tr>
<tr><td>Course Objective</td><td>Understanding of Thermal balance in Human beings
Designing Climate responsive structure
Conceptual understanding of Air flow in Buildings</td></tr>
<tr><td>Course Outcomes</td><td>CO1: To study human heat balance and comfort.
CO2: To familiarize students with the design and settings for buildings for daylight and factors that influence temperature.
CO3: To inform about the air pattern around buildings and the effect of wind on design and siting of buildings
CO4: To expose the students to the various design strategies for building in different types of climatic zones.</td></tr>
<tr><td>Mapping between COs with PSOs</td><td>
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<tr><th></th><th>PSO1</th><th>PSO2</th><th>PSO3</th><th>PSO4</th><th>PSO5</th></tr>
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<tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>C04</td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Pre-requisite</td><td>Understanding of climate responsive architecture</td></tr>
<tr><td>Course Content</td><td>Unit 1:
1.1 Climate And Human Comfort
1.1.1 Factors that determine climate of a place
1.1.2 Components of Climate
1.1.3 Climate classifications for building designers in tropics
1.1.4 Climate characteristics.
1.1.5 Human body heat balance – Human body heat loss – Effects of climatic factors on human body heat loss</td></tr>
</table>

	1.1.6 Effective temperature – Human thermal comfort **Unit 2:** **2.1 Design Of Solar Shading Devices** 2.1.1 Movement of sun 2.1.2 Locating the position of sun – Sun path diagram – Overhead period–Solar shading–Shadow angles 2.1.3 Design of appropriate shading devices **Unit 3:** **3.1 Heat Flow Through Building Envelope Concepts** 3.1.1 The transfer of heat through solids – Definitions – Conductivity, Resistivity, Specific heat, Conductance, Resistance and Thermal capacity – Surface resistance and air cavities 3.1.2 Air to air transmittance (U value) – Time lag and decrement 3.1.3 Types of envelops with focus on glass. **Unit 4:** **4.1 Air Movement Due To Natural And Built Forms** 4.1.1 The wind – The effects of topography on wind patterns 4.1.2 Air currents around the building 4.1.3 Air movement through the buildings -The use of fans – Thermally induced air currents – Stack effect, Venturi effect – Use of court yard. **Unit 5:** **5.1 Climate And Design Of Buildings** 5.1.1 Design strategies in warm humid climates, hot humid climates, hot and dry climates and cold climates 5.1.2 Climate responsive design exercises
Reference Books	1.O.H. Koenigsberger and Others, "Manual of Tropical Housing and Building" – Part I - Climate design, Orient Longman, Madras, India, 2010. 2. Bureau of Indian Standards IS 3792, "Hand book on Functional requirements of buildings other than industrial buildings", 1987. 3.Martin Evans, "Housing Climate and Comfort", Architectural Press, London, 1980 4. B. Givoni, "Man, Climate and Architecture", Architectural Sciences Series – Applied Science Publishers Ltd., London, 1981. 5. B. Givoni, "Passive and Low Energy Cooling of building", Van Nortrand Reinhold New York, USA, 1994. 6. Galloe, Salam and Sayigh A.M.M., "Architecture, Comfort and Energy", Elsivier Science Ltd., Oxford, U.K., 1998.
Teaching Methodology	Lecture notes , Climatology lab, Group discussion , Debates , Case studies , Analysis, E-resource
Evaluation Method	Internal assessment – 70% (attendance, case studies, juries/review) External assessment – 30% (University exam- Jury/viva)

Course: ARE-904: Elective

<table>
<tr><td>Course Code</td><td>ARE-904</td></tr>
<tr><td>Course Title</td><td>Elective (Social Science And Architecture)</td></tr>
<tr><td>Marks</td><td>100</td></tr>
<tr><td>Teaching per Week</td><td>02 hours/ week</td></tr>
<tr><td>Minimum weeks per Semester</td><td>23 weeks(including class work, examination, preparation, holidays, etc)</td></tr>
<tr><td>Effective From</td><td>Dec. 2019</td></tr>
<tr><td>Purpose of Course</td><td>To expose the students to the relationship between man and environment.</td></tr>
<tr><td>Course Objective</td><td>To familiarize the students with basic concepts, theories and issues of Sociology and its relevance to Architecture.</td></tr>
<tr><td>Course Outcomes</td><td>CO1: Comprehend what have been the major issues in the development of architectural design in socio- cultural context.
CO2: Illustrate the place specific nature of architectural design.
CO3: Appraise about architecture and its relationship to its historical, political, social, economic, technological contexts.</td></tr>
<tr><td>Mapping between COs with PSOs</td><td>
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<tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Pre-requisite</td><td>Understanding of Society</td></tr>
<tr><td>Course Content</td><td>Unit 1:
1.1 Introduction Study of Sociology
1.1.1 Sociology and Architecture, Basic concepts –Society, Group, Community (Rural and Urban), Association, Institution.
Unit 2:
2.1 Culture and Society Concepts of culture
2.1.1 Cultural identity and cultural diversity, Factors of sociocultural changes.
Unit 3:
3.1 Social Development
3.1.1 Introduction to the concept of development,
3.1.2 Types of development - rural, urban and rurban.
Unit 4:
4.1 Demography</td></tr>
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	4.1.1 Population growth and its impact 4.1.2 Population subsistence, Migration. **Unit 5:** **5.1 Social Institutions Family, Marriage, Religion.** **Unit 6:** **6.1 Social Infrastructure Education, Health, Recreation.**
Reference Books	1. An Introduction to Sociology. (n.d.).VidyaBhushan. 2. Bart, P. and Frankel, L. (n.d.). *The student's sociologicalhandbook*. 3. Brinkerhoff, D. and White, L. (1998). *Sociology*. St. Paul, MN [etc.]: WestPubl. 4. Chitambar, J. (n.d.). *Introductory ruralsociology*. 5. Dr. Kumar, K. (n.d.). *RuralSociology*. 6. Dr. Valsyayan (n.d.). *UrbanSociology*. 7. McCurdy, D., Shandy, D. and Spradley, J. (n.d.). *Conformity and conflict: Readings in Cultural Anthropology*.
Teaching Methodology	discussions, presentations , juries/reviews
Evaluation Method	Internal assessment – 70% (attendance, case studies, juries/review) External assessment – 30% (University exam- Jury/viva)

Course: ARE-904: Elective

<table>
<tr><td>Course Code</td><td>ARE-904</td></tr>
<tr><td>Course Title</td><td>Elective (Humanities And Architecture)</td></tr>
<tr><td>Marks</td><td>100</td></tr>
<tr><td>Teaching per Week</td><td>02 hours/weeks</td></tr>
<tr><td>Minimum weeks per Semester</td><td>23 weeks (including class work, examination, preparation, holidays, etc)</td></tr>
<tr><td>Effective From</td><td>Dec. 2019</td></tr>
<tr><td>Purpose of Course</td><td>Basic study of human behaviour and interaction with environment.</td></tr>
<tr><td>Course Objective</td><td>Forces that shape the built environment and how it (architecture and urban form) contributes to the cultural identity of people, period, and place.</td></tr>
<tr><td>Course Outcomes</td><td>CO1:Comprehend what have been the major issues in the development of architectural design in socio- cultural context
CO2: Illustrate the place specific nature of architectural design
CO3: Appraise about architecture and its relationship to its historical, political, social, economic, technological contexts.</td></tr>
<tr><td>Mapping between COs with PSOs</td><td>
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<tr><td>Pre-requisite</td><td>Society, architecture and settlement pattern</td></tr>
<tr><td>Course Content</td><td>Unit 1:
1.1 Sociology and Its Relation to Architecture
1.1.1 Definition of Sociology; nature, scope and utility of Sociology; branches of sociology.
1.1.2 Different social processes - cooperation, conflict, competition, accommodation, assimilation, progress and evolution.
1.1.3 Forms of social organization: society, community, family, culture 1.1.4 Different family structures and architectural responses to different family types and housing typologies (traditional and contemporary)
1.1.5 Relationship of social, economic and political systems to the built environment, relevance in Architecture.
Unit 2:
2.1 Man, Environment and Society</td></tr>
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	2.1.1 Journey of man from ancient through medieval to contemporary; formation of group living, settlements and beginning of community living as rural &urban. 2.1.2 Concepts of society, culture, traditions & civilization and their progressive development through different ages from Paleolithic to contemporary. 2.1.3 Culture and society, cultural lag, Deviant subculture, Culture and civilization. 2.1.4 Different theories about culture and social identity with reference to architecture, social construction of space. 2.1.5 Relation between culture and built form (exploration of architectural examples) based on design practices followed across India and the world. 2.1.6 Social development for Sustainable development, Sustainable Indigenous communities with case examples. **Unit 3:** **3.1 Indigenization and Cultural Change** 3.1.1 Society and environment, Social change, Factors of social change, Social stratification, Rural & Urban, class &caste 3.1.2 Social and cultural aspects of building practices; Architecture as an identity; Loss of architectural identity and role of culture. 3.1.3 Social changes in Gujarat (structural, occupational, rural, religious and housing) including renaissance and social reform movement. 3.1.4 Gujarat Model Social development - characteristics, advantages and disadvantages 3.1.5 Urban Sociology focusing on study of life and interaction in cities and metropolitan areas, the economic, cultural and social changes of urbanisation leading to production or disintegration of identities. 3.1.6 Study of demography, migration Social aspects of migration, , gentrification, ghettoization, housing& slums and its effect on urbanisation and architecture
Reference Books	1. An Introduction to Sociology. (n.d.).VidyaBhushan. 2. Bart, P. and Frankel, L. (n.d.). The student's sociologicalhandbook. 3. Brinkerhoff, D. and White, L. (1998). Sociology. St. Paul, MN [etc.]: WestPubl. 4. Chitambar, J. (n.d.). Introductory ruralsociology. 5. Dr. Kumar, K. (n.d.). RuralSociology. 6. Dr. Valsyayan (n.d.). UrbanSociology.
Teaching Methodology	discussions, seminars , juries/reviews
Evaluation Method	Internal assessment – 70% (attendance, case studies, juries/review) External assessment – 30% (University exam- Jury/viva)

Course: ARE-904: Elective

<table>
<tr><td>Course Code</td><td>ARE-904</td></tr>
<tr><td>Course Title</td><td>Elective (Art And Design)</td></tr>
<tr><td>Marks</td><td>100</td></tr>
<tr><td>Teaching per Week</td><td>02 hours/week</td></tr>
<tr><td>Minimum weeks per Semester</td><td>23 weeks (including class work, examination, preparation, holidays, etc)</td></tr>
<tr><td>Effective From</td><td>Dec. 2019</td></tr>
<tr><td>Purpose of Course</td><td>To develop the importance in Art in Architecture</td></tr>
<tr><td>Course Objective</td><td>1. Exposure to various mediums and techniques.
2. Bold enough to handle to the colours for the presentation sheets.
3. To develop mastery in sketching and expression through forms.
4. The skill and knowledge gained through the subject is most useful to their profession</td></tr>
<tr><td>Course Outcomes</td><td>CO1: To develop presentation skills, visual expression and representation, imaginative thinking and creativity through hands on working with various mediums and materials.
CO2:To familiarize the students with the various mediums and techniques of art through which artistic expression can be achieved
CO3: To familiarize students with the grammar of art by involving them in a series of free hand exercises both indoor and outdoor to understand form, proportion, scale, etc
CO4: Involving them in a series of exercises which will help them experiment with form and volume.
CO5: To involve students in a series of exercises which will look at graphic and abstract representations of art.</td></tr>
<tr><td>Mapping between COs with PSOs</td><td>
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<tr><td>CO5</td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Pre-requisite</td><td>Understanding of various art forms.</td></tr>
<tr><td>Course Content</td><td>Unit 1
1.1 Introduction to art</td></tr>
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	1.1.1 Elements and principles of drawing 1.1.2 Types of drawing 1.1.3 Visual effects of drawing 1.1.4 Scale drawing Composition 1.1.5 Approach to sketching 1.1.6 Study of light, shade and shadow. 1.1.7 Exercise involving Indoor and outdoor sketching – Spot sketching - Drawing from imagination – Study of 3 D effects through light and shade from nature – Tools and materials – Illustration – Study of human being and mobiles. **Unit 2** **2.1 Painting I** 2.1.1 Introduction of painting – Colour – Properties of colour – Colour schemes – Types of colours . 2.1.2 Application and visual effects of colour. 2.1.3 Exercise involving Study of colour – Properties of paper, brush and other tools – Basic washes – 3D effects from still-life, nature and built environment using mono chromatic and multi colour. **Unit 3** **3.1 Painting II** 3.1.1 Indoor and out door painting – Rendering techniques Exercise involving Water colour 3.1.2 Water soluble colour pencil – Tempra – Acarali – Water soluble oil colour – Oil colour – Pen and ink – Brush – Air brush 3.1.3 Mixed mediums – Study of multi colour and 3D effects from nature and built environment. **Unit 4** **4.1 Sculpture** 4.1.1 Introduction of sculpture –Sculpture using various materials such as clay, plaster of Paris, paper mache, and wire. **Unit 5** **5.1 Applied Art** 5.1.1 Graphic representations – 5.1.2 Visual composition and Abstraction- 5.1.3 Exercises involving Logo design, collage, calligraphy and printing.
Reference Books	1. Moivahuntly, “The artist drawing book”, David & Charles, U.K., 1994. 2. Arundell (Jan) Exploring sculpture, Mills and Boon, London/Charles, T. Brand Ford Company, U.S.A. 3. The art of drawing trees, heads, colours, mixing, drawing, landscape and painting, water colour, oil colour, etc. – The Grumbacher Library Books, New York, 1996. 4. Caldwell peter, “Pen and Ink Sketching”, B.T. Bats ford Ltd., London, 1995.
Teaching Methodology	discussions, presentations , juries/reviews
Evaluation Method	Internal assessment – 70% (attendance, case studies, juries/review) External assessment – 30% (University exam- Jury/viva)