

Key Indicator – 1.3 Curriculum Enrichment
(50)

1.3.2 Number of certificate / value-added courses / Diploma Programme/ online courses of MOOCS / SWAYAM / e-Pathshala / NPTEL etc. where the students of the institution have enrolled and successfully completed

(30)

Criterion 1 – Curricular Aspects
(150)



Criteria 1.3.2

Notices, Brochure and Course content or syllabus along with course outcome of Value added/Add on /Certificate courses offered

(Appendix-III)

Sushant University

DECLARATION FOR VALUE ADDED COURSES

This is to certify that the below mention value added courses offered during the academic session 2020-21 are Non-credit and offered outside the curriculum during the Academic Year.

S.NO	School	Name of the add on/certificate/value added program/Diploma Programs/ onlinecourse of MOOCS/SWAYAM/e Patashala/ NPTEL etc	Program duration (No of contact Hours)
1	VHTBS	Sustainable Practices in Hospitality	32 Hours
2	SSAA	Building Information Modelling	32 Hours
3		Transport Planning	32 Hours
4	SOD	Creative practices	35 hours
5	SOB	Digital Literacy	32 Hours
6	SHS	self-grooming and care	30 Hours
7		Health and covid-19 understanding	30 Hours
8	SET	Introduction to Industry 4.0 & IoT	30 Hours

Signature & Seal - Vice-Chancellor
Sushant University

Amr Kaya
26/9/21



2020-21

08/02/2021

Office Order

Vatel Hotel & Tourism Business School, Sushant University will be Offering Value Added course in the Academic session 2020-21 Even Semester.

Course Details

S.No	Name of the Value-Added course	Duration (Contact Hours)	Courses offered for	Resource Person	Date of Commencement
1	Sustainable Practices in Hospitality	32	BHM	Anshu Rawal	15/02/2021

The Syllabus of the courses offered is attached for your reference as annexures.
The assessment of the same will be as under:

Assessment Procedure

S.No	Name of the Value-Added course	Assessment methodology/Components
1	Sustainable Practices in Hospitality	Assessment on the basis of Quiz and Attendance

It is **mandatory for the students of the respective batches** (as mentioned in the course detail sheet) to attend the Value-added courses specially curated for them based on the gaps and need analysis. The same will be beneficial for the students and will contribute to lifelong learning.

The courses are offered **free of cost and certificates will be presented to students' post completion of the course.**
For any queries related to the Value-added course kindly contact the undersigned

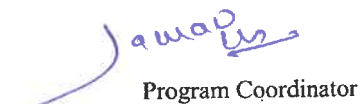
Ms. Chandana Paul
Assistant Professor - VHTBS
Coordinator – Value added Courses



VAC Coordinator



Vatel Hotel & Tourism Business School
Sushant University
Sector-55, Gurugram



Program Coordinator

Sushant
University

Vatel Hotel & Tourism
Business School



**Value Added Course
(Non Credited)**

Sustainable Practices in Hospitality

Course Code: 20 VHTBS-VA01

Even - 2020

16th Feb to 5th May, 2021

Duration: 32Hrs.



Faculty Incharge: Ms Anshu Rawal

Follow us on     

 www.sushantuniversity.edu.in



Anshu Rawal
Vatel Hotel & Tourism Business School
Sushant University
Sector-55, Gurugram

Value Added Course

Course Title: Sustainable Practices in Hospitality	
Course Designed by:	Ms. Anshu Rawal

1. Course Introduction and Objectives

This course will help participants to develop an understanding of sustainable practices and environmental initiatives within the hospitality industry. The participants will learn about energy conservation, waste management and responsible tourism.

Employability-level: Professional Skill

1. Foundati on Core	2. Foundation Skill	3. Professional Core	4. Professional Skill	5. Premier Skill
			✓	

2. Course Learning Outcomes

By the end of the lesson, Professionals will be able to:

CLO1 : Learn about energy conservation in the hospitality industry.

CLO2: Learn about waste management in the hospitality industry

3. Course Pedagogy

Primarily class lectures followed by question-answer sessions/ assignments/ interactive sessions, reading of sustainable practices in hospitality industry, presentation, would be used as an important pedagogy.



Anshu Rawal
Vice-Chancellor, Hotel & Tourism Business School
Sushant University
Sector-14, Gurugram

4. Course Contents and Duration

Session No.	Session Topic / Sub-topic Description	Date	No. of session (per hour)
1	This lesson will discuss the significance of sustainable practices in the hospitality industry	16/02/21 - 22/02/21	4
2	Explore various sustainable practices and initiatives implemented in the hospitality industry Study Energy Conservation:	24/02/21 - 8/03/21	6
3	Study Energy Conservation	10/03/21 – 19/03/21	6
4	Gain knowledge about effective waste management practices in hospitality	24/03/21 – 5/04/21	5
5	Discover the concept of responsible tourism and its relevance to sustainable practices	7/04/21	2
6	Familiarize yourself with various green certifications and eco-labels available for hotels and resorts.	12/04/21 - 14/04/21	3
7	Focus on sustainable practices in hospitality.	19/04/21	1
8	Apply your knowledge by engaging in practical projects that promote sustainable practices	26/04/21 - 28/04/21	3
9	Stay Updated about sustainable practices in the hospitality industry	3/05/21	1
10	Foster collaboration with fellow students, industry professionals, and sustainability organizations	5/05/21	2
Total			32



Jas
 Vice-Chancellor
 Ashoka University
 Gurgaon, Haryana

5. Course Assessment Scheme

There are two components of assessment – continuous and final – as part of Course. Participants would be encouraged and guided to complete their assignment activities and gather enough knowledge throughout the Course.

Continuous Assessment

The faculty would keep records of a Participant attendance and engagement. The following Rubric will be used for continuous assessment:

Attendance	Student has consistent attendance in class and comes to class on time.	Student has reasonable attendance in class and mostly comes to class on time.	Student has some absences from class and/or is not always on time.	Student has poor attendance and/or is frequently late to class.
Engagement	Proactively and regularly contributes to class discussion; initiates discussion on issues related to class topic. Always ready to answer the question asked.	Proactively contributes to class discussion; asks questions and responds to direct questions.	Few contributions to class discussions; seldom volunteers but responds to direct questions.	Student never participates in class discussion; fails to respond to direct questions.

Final Assessment

Assessment on the basis of Quiz and Attendance

6. Course References

Include the list of text and reference books, videos, materials for reading/ watching given by the course facilitator, and any other online resources etc. as suggested during the course conduct.]

1. "Sustainable Hospitality: Sustainable Development and Management in the Hospitality Industry" by Elena Cavagnaro.
2. "Sustainable Hospitality and Tourism: A Toolkit for Practitioners" by Miguel Angel Gardetti (Editor), Ana Laura Torres (Editor)
3. "Sustainability in the Hospitality Industry: Principles of Sustainable Operations" by Phillip Sloan, Willy Legrand, and Joseph S. Chen
4. "Sustainable Tourism: A Comprehensive Guide to Principles and Practices" by David Weaver and Laura Lawton



Jawar
 Hotel & Tourism Business School
 Sushant University
 Sector-25, Gurgaon



**Value Added Course
Resource Person Profile**

Name – Ms Anshu Rawal

Designation – Assistant Professor, Sushant University

Experience – 6 Years in Hospitality Industry & Academics

Specialization- Front Office

Email id – anshurawal@ansaluniversity.edu.in



Ms Anshu Rawal is a hospitality educator, who has completed her Master degree from one of the prestigious institute in India, IHM Pusa, New Delhi with specialization in human resource management. Before joining Ansal University, Gurugram, she has worked as assistant professor at lovely professional university, Jalandhar, Punjab. She has also worked with the Lalit Suri Hospitality School, Faridabad.

An enthusiastic and perfectionist, who takes keen interest in moulding student's personality to make them industry ready is her passion. She is a graduate in Bachelors of hotel and hospitality administration from Delhi Institute of hotel management, Lajpat Nagar, New Delhi.

She started her hospitality career as an operational trainee at The Imperial, New Delhi. She has been associated with brands like ITDC Hotels – Hotel Ashok. Hotel Samra, Jaypee Hotels.



Jaw
Vatel Hotel & Tourism Business School
Sushant University
Sector-55, Gurugram

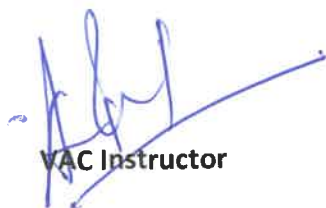
GAP ANALYSIS

Value Added Course Name – Sustainable Practices in Hospitality
Offered for: BHM & MBA Programs of Vatel Hotel & Tourism Business School
Offered in: Even 2020-21
Gaps Identified

- Gap 1** – Students fail to describe the different energy conservation techniques used in the hotel industry.
- Gap 2** – Students fail to identify the various waste management methods adopted by the hospitality industry.
- Gap 3** – There is a gap between the theoretical knowledge and actual sustainable practices currently used in the hospitality industry.

MOTIVATION BEHIND OFFERING THIS COURSE AS A VALUE-ADDED COURSE

- Sustainable hospitality is becoming increasingly important as the negative impacts of the tourism industry on the environment and local communities come to light. More travelers are seeking out eco-friendly accommodations and businesses in the hospitality industry are responding by implementing sustainability initiatives.
- One of the key reasons why sustainable practices are important in the hospitality industry is because they help to preserve the natural environment. Hotels and resorts, for example, consume large amounts of energy and water on a daily basis.
- Additionally, many hotels are now embracing renewable energy sources such as solar power to meet their energy needs. These efforts not only reduce greenhouse gas emissions but also contribute to the overall sustainability of the industry. Another reason why sustainable practices are important in hospitality is because they can lead to cost savings for businesses.
- Adopting energy-efficient technologies and implementing waste reduction strategies can help hotels and restaurants reduce their operational costs. By implementing recycling programs and reducing food waste, restaurants can cut down on disposal costs. In addition to these financial benefits, sustainable practices can also enhance a business's reputation and attract environmentally conscious customers.



VAC Instructor



Program Coordinator

Vatel Hotel & Tourism Business School
Sushant University
Sector 14, Gurugram

SCHOOL OF ART AND ARCHITECTURE
SUSHANT UNIVERSITY
OFFICE ORDER

July 13, 2020

Ref : SAA/00/JUL/13/018A

School of Art and Architecture, Sushant University will be offering the following value added course the odd semester of Academic session 2020-21.

Course details

S.No	Name of the Value Added Course	Duration (Contact hours)	Faculty	Date of commencement
1	Building Information Modelling	32	Dr. Purva Majumdar	03/08/2020

The assessment of the same will be as under :

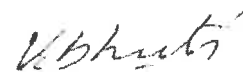
S.No	Name of the Value Added Course	Assessment methodology
1	Building Information Modelling	Attendance, class engagement and submission of assignments

The courses are offered free of cost. It is mandatory for the students to attend the Value added course being offered by the school in order to qualify for certification. The same will be beneficial for the students and will contribute to holistic learning.

For any queries related to the Value added course kindly contact the undersigned.



Purva Majumdar
Assistant Professor
Co-ordinator in charge - Value added courses



Prof Vibhuti Sachdeva
Dean
School of Art and Architecture



VALUE ADDED COURSE (NON CREDIT COURSE) ON

Building Information Modeling (BIM)

DURATION: 32 HOURS

FACULTY COORDINATOR : DR. PURVA MUJUMDAR

Course Objective:

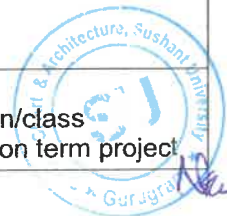
The aim of teaching this course is to make the student understand the theory and application of Building Information Modeling / Management (BIM) Concept for Architecture-Engineering-Construction Industry Practices, Management concepts for Architectural practice.



WEEK DATE	LECTURE	TASK
Week 1/ 7.08.2020	INTRODUCTION TO BUILDING INFORMATION MANAGEMENT/MODELING (BIM) <ul style="list-style-type: none"> • The current AEC Business model • Documented inefficiencies of traditional approaches • BIM: New tools and new processes • BIM as a lifecycle platform • Benefits of BIM 	<ul style="list-style-type: none"> • Understanding relevance and applicability of this course in AEC projects. • Class will be divided into group of 3-4 students in each and they will prepare presentation / report on BIM Concepts.
Week 2/ 14.08.2020	BIM CORE TECHNOLOGIES AND SOFTWARE: <ul style="list-style-type: none"> • Evolution to object-based parametric modelling • Beyond parametric shapes • BIM Environments, Platforms and tools • BIM model quality and model checking • BIM Platforms 	<ul style="list-style-type: none"> • Class lecture/discussion on BIM core technologies and software • Students will prepare presentation/ practice problems on different BIM technologies and softwares.
Week 3/ 21.08.2020	COLLABORATION AND INTEROPERABILITY: <ul style="list-style-type: none"> • Data exchange methods • Product data models • Standardization • Evolution from file-based exchange to BIM servers • Interfacing technologies 	<ul style="list-style-type: none"> • Class lecture/discussion on BIM collaboration and interoperability. • Students will choose a design/engineering application with no effective interface with BIM design tool and identify the information that need to be exchanged in both directions.
Week 4/ 28.08.2020	BIM FOR OWNERS AND FACILITY MANAGERS: <ul style="list-style-type: none"> • Owner's role in a BIM Project • Cost and time management • An owner and facility manager's building model • BIM implementation on a project 	<ul style="list-style-type: none"> • Class lecture/discussion on BIM processes and workflows for owners and facility managers • Case study/ practice problems on BIM processes and workflows for owners and facility managers.
Week 5/ 04.09.2020	BIM FOR ARCHITECTS AND ENGINEERS: <ul style="list-style-type: none"> • Scope of design services • BIM use in design processes • Building object models and libraries • Consideration in adoption for design practice 	<ul style="list-style-type: none"> • Class lecture/discussion on BIM processes and workflows for architects and engineers • Case study/ practice problems on BIM processes and workflows for architects and engineers.
Week 6/ 11.09.2020	BIM FOR CONSTRUCTION MANAGERS: <ul style="list-style-type: none"> • Information construction managers want from BIM • BIM enabled process change • Developing a construction building information model 	<ul style="list-style-type: none"> • Class lecture/discussion on BIM processes and workflows for construction managers • Case study/ practice problems/model development on BIM for



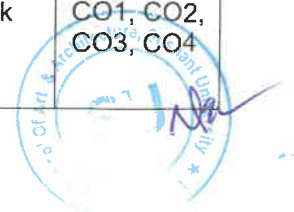
	<ul style="list-style-type: none"> 3D: Visualization and coordination 	construction managers – Part 1
Week 7/ 18.09.2020	(10+10+10+10+10+10) = 60 marks converted to 40%	Evaluation of marks.
Week 8/ 25.09.2020	BIM FOR CONSTRUCTION MANAGERS: <ul style="list-style-type: none"> 4D: Construction analysis and planning 5D: Quantity takeoff and cost estimating Production planning and control Off-site fabrication and modular construction BIM in the field 	<ul style="list-style-type: none"> Class lecture/discussion on BIM processes and workflows for construction managers Case study/ practice problems/model development on BIM for construction managers – Part 2
Week 9/ 02.10.2020	BIM FOR SUBCONTRACTORS AND FABRICATORS: <ul style="list-style-type: none"> Types of subcontractors and fabricators Benefits of BIM process Generic BIM system requirements for fabricators Specific BIM requirements for fabrication 	<ul style="list-style-type: none"> Class lecture/discussion on BIM processes and workflows for subcontractors and fabricators Case study/ practice problems/model development on BIM for subcontractors and fabricators
Week 10/ 09.10.2020	BIM ADOPTION AND IMPLEMENTATION: <ul style="list-style-type: none"> BIM Mandates BIM Roadmaps, Maturity models and measures BIM Guides BIM Education and Training 	<ul style="list-style-type: none"> Class lecture/discussion on BIM adoption and implementation BIM roadmap, maturity model, guides for students/practitioners
Week 11/ 16.10.2020	THE FUTURE: BUILDING WITH BIM <ul style="list-style-type: none"> BIM before 2000: Predicting trends Development and impact of BIM Current Trends Vision 2025 Beyond 2025 	<ul style="list-style-type: none"> Class lecture/discussion on BIM future and challenges Presentation/Report on future of BIM/BIM implementation
Week 12/ 23.10.2020	TERM PROJECT: <ul style="list-style-type: none"> Project overview Requirements and features Design, Model and Workflow Challenges and lessons learned Conclusion and future outlook 	<ul style="list-style-type: none"> Class lecture/discussion on term project and its requirements/features
Week 13/ 30.10.2020	BIM CASE STUDY 1: <ul style="list-style-type: none"> Project overview Motivation for the project The Building The NCH Project BIM Execution Plan Visualization, Simulation, and Design Optimization Summary 	<ul style="list-style-type: none"> Students presentation/class discussion on term project
Week 14/ 06.11.2020	BIM CASE STUDY 2: <ul style="list-style-type: none"> Project overview Complex spatial arrangement 	<ul style="list-style-type: none"> Students presentation/class discussion on term project



	<ul style="list-style-type: none"> • BIM based design coordination • Free form patterned exterior • Mega truss structure: laser scanning • VR and 4D Simulation • Needs for schedule reduction • Lessons learned 	
Week 15/ 13.11.2020	10+10+10+60 = 90 marks converted to 60%	Final Presentation of Term Project for Grading
Week 16/ 20.11.2020	End-term internal marking & up gradation of assignments. Class discussion to clarify doubts.	Final Presentation of Term Project for Grading

Summative Assessment Components and Criteria

Assignment No.	Assignment Type	Specifications	Weightage	Submission Date	Course Outcomes
Assignment1	Group	<ul style="list-style-type: none"> • Presentation / report on BIM Concepts. 	10	Due Week 2	CO1, CO2, CO3, CO4
Assignment2	Group	<ul style="list-style-type: none"> • Presentation/ practice problems on different BIM technologies and softwares 	10	Due Week 3	CO1, CO2, CO3, CO4
Assignment3	Group	<ul style="list-style-type: none"> • Problem on design/engineering application with no effective interface with BIM design tool and identify the information that need to be exchanged in both directions 	10	Due Week 4	CO1, CO2, CO3, CO4
Assignment4	Group	<ul style="list-style-type: none"> • Case study/ practice problems on BIM processes and workflows for owners and facility managers 	10	Due Week 5	CO1, CO2, CO3, CO4
Assignment5	Group	<ul style="list-style-type: none"> • Case study/ practice problems on BIM processes and workflows for architects and engineers 	10	Due Week 6	CO1, CO2, CO3, CO4
Assignment6	Group	<ul style="list-style-type: none"> • Case study/ practice problems/model development on BIM for construction managers 	10	Due Week 9	CO1, CO2, CO3, CO4
Assignment7	Group	<ul style="list-style-type: none"> • Case study/ practice problems/model development on BIM for subcontractors and fabricators 	10	Due Week 10	CO1, CO2, CO3, CO4



Assignment 8	Group	<ul style="list-style-type: none"> BIM roadmap, maturity model, guides for students/practitioners 	10	Due Week 11	CO1, CO2, CO3, CO4
Assignment 9	Group	<ul style="list-style-type: none"> Presentation/Report on future of BIM/BIM implementation 	10	Due Week 12	CO1, CO2, CO3, CO4
Term Project	Individual	<ul style="list-style-type: none"> Term Project Presentation 	10	Due Week 15 & 16	CO1, CO2, CO3, CO4, CO5, CO6

Grading Criteria and Assessment Rubrics applicable on all assignments

Dimension	Below Average (0 to 5)	Average (5 to 6)	Above average (6 to 7)	Good (7 to 8)	Excellent (8 to 10)
Understanding of the Topic: Technical Knowledge	Lacked technical knowledge	Little knowledge not adequate to understand	Fair knowledge capable of understanding	Good knowledge and inquisitive	Excellent, Able to answer queries
Application of the Knowledge	Unaware of application of various systems of structural design	Little awareness application of various systems of structural design	Fair and capable of identification various systems of structural design	Good understanding of application of various systems of structural design	Very Good understanding of application of various systems of structural design
Presentation: Quality of work	Poor quality/ incomplete work	Quality of work not up to standard of the class	Fair quality of completed work	Good quality of work includes lucid drawings and well-organized set of drawings with graphics	Very good quality of work includes well drawn drawings, with graphics, text neatly organized thereby resulting in a professional quality work.
Finishing of presentation	Inactive and lack of participation	Active but less involved with group members	Active and involved	Active and involved with complete interest	Active and involved with leadership qualities
Compilation of data	Copied	Not adequate	Fair inputs visible	Good work relevant to the topic	Very good work with respect to the topic
Analysis of data	Inability	Unable to explain	Fair inputs visible	Good work relevant to the topic	Very good work with respect to the topic
Participation in class and projects	Poor	Moderate	Adequate	Full	Full



Plagiarism

What is Plagiarism?

The theft of ideas (such as the plots of narrative or dramatic works) or of written passages or works, where these are passed off as one's own work without acknowledgement of their true origin; or a piece of writing thus stolen.

-- The Oxford Dictionary of Literary Terms. 2008. Oxford University Press.

Common Forms of Plagiarism

- Copying directly from others without acknowledgement of the original source
- Using ideas or rephrasing text from without acknowledgement of the original source
- Using charts, tables, pictures or diagrams from others without referencing
- Reusing some parts of your previous work
- Submitting other people's work as your own

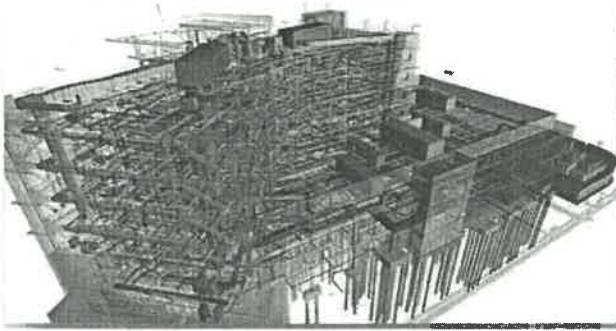
How to avoid plagiarism?

- Use your own ideas.
- Paraphrase + give proper credit to the original source.
- Use quotation marks when using exact words from other authors + give proper credit to the original source.
- Organise and track your sources and materials

Recommended Text (Reference Book)

1. "BIM and Construction Management: Proven Tools, Methods, and Workflows", Brad Hardin, Dave McCool, John Wiley & Sons
2. "BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers and Contractors", Chuck Eastman, Paul Teicholz, Rafael Sacks, Kathleen Liston, Wiley
3. Online readings on internet





Course Name: Building Information Management (BIM)

Course Code: 20SAA-VA01

Name of Faculty: Dr. Purva Mujumdar

**Contact Days / Hours – Friday 3:00 to 5:00 PM
32 hours**

Course Outline

Aim

The aim of teaching this subject is to make the student understand the theory and application of Building Information Modeling/Management (BIM) Concept for Architecture-Engineering-Construction Industry Practices.

Teaching Method

- Lecture about the given topic
- Predominantly, discussions in the classroom
- Hands on approach through software demonstration and tutorials
- Research through internet
- Case study projects relevant to the course being studied
- Analysis based learning

Course Outcomes

CO1 Understand the model-based workflow in the architecture-engineering-construction industry using Building Information Modeling (BIM)

CO2 Understand how construction practices can be improved by BIM.

CO3 Learn to use BIM for modelling, design/construction coordination, estimating, scheduling, safety planning, as-built modelling etc.

CO4 Understand the functionalities and use of BIM related software programs and real-world project information.

CO5 Conduct studies on varied case examples and projects.

CO6 Identify technical limitations and drawbacks in current practices and devise conceptual or well-developed solutions to overcome the problems.

Approach

The course shall be taught with class lectures on the relevant topics, class presentations with involvement of students, case studies, term project, class discussions, tutorials, demonstration of programs and softwares etc. The goal is to achieve knowledge, awareness and skills of using Building Information and Modeling/Management in the Architectural-Engineering-Construction industry.

Weekly Schedule



SCHOOL OF ART AND ARCHITECTURE
SUSHANT UNIVERSITY
OFFICE ORDER

December 14, 2020

Ref : SAA/00/DEC/14/022A

School of Art and Architecture, Sushant University will offer the following value added course during the even semester of Academic session 2020-21. This course will be offered in online mode.

Course details

S.No	Name of the Value Added Course	Duration (Contact hours)	Faculty	Date of commencement of the semester
1	Transport Planning	32	Ar. Himanshu Sanghani, Ar Arjun Kamal	07/01/2021

*The date of commencement of the Course is subject to the provision in the timetable and the same shall be communicated by the SAA Dean Office.

The assessment of the same will be as under :

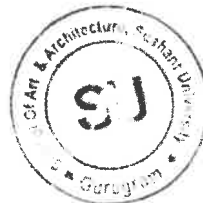
S.No	Name of the Value Added Course	Assessment methodology
1	Transport Planning	Attendance, class engagement and submission of assignments

The courses are offered free of cost. It is mandatory for the students to attend the online Value added course being offered by the school in order to qualify for certification. The same will be beneficial for the students and will contribute to holistic learning.

For any queries related to the Value added course kindly contact the undersigned.



Ar. Himanshu Sanghani
Professor
Co-ordinator in charge - Value added courses



Prof Vibhuti Sachdeva
Dean
School of Art and Architecture





TRANSPORT PLANNING

Non Credited Course (Duration: 34 hours)

Introducing Value added Courses 2020-21 Even Semester

Classes to commence from 7th January 2021

Faculty Co-ordinator-Prof. Himanshu Sanghani / email-sanghani@sushantuniversity.edu.in

Course objectives-

The course aims at preparing students to realise the importance and need of sustainable traffic and transportation infrastructure in urban and regional development. Students are expected to have:

Knowledge:

Interaction between land-use and planning will provide students to assess and speculate the relevant different modes of transport. Different surveys conducted will help the students to theorize and examine various concepts and populate geometric designs related to survey/transportation. To be able to conduct and summarise independent research and will be able to translate theoretical concepts in to spatial configurations.

Value:

For the subject, which will strongly prepare the students to list the terms and objectives while documenting exercises related to transportation. In order to define the vocabulary for traffic rules and regulations.

Skills:

To be able to demonstrate principles of road design and aptly apply in various other projects such as neighbourhood planning, local area planning, housing designs and sector designing. In statistical and analytical skills related to transportation, which will enhance and then will be able to convince peers.

Design:

At the end of semester students will gather the ability to design roads based on theory, strategize and plan economics involved in road infrastructure.

Sushant University, Sector 55, Golf Course Road, Gurugram,
Haryana – 122003,

+91124 4750400/ +9112 4750501/ 1800 200 5520

Value Added Course Outline

Course Name: Traffic & Transportation Planning

Course Code: 20SAA-VA02

Faculty: Prof. Himanshu Sanghani

Contact Days / Hours – Friday 3:00 to 5:00 PM
(32 hours)



Course Outline

Aim

The course aims at preparing students to realize the importance and need of sustainable traffic and transportation infrastructure in urban and regional development.

Learning Outcomes

Students are expected to have:

Knowledge:

On interaction between land use and planning will provide students to assess and speculate the relevant different modes of transport.

Different surveys conducted will help the students to theorize and examine various concepts and populate geometric designs related to survey/transportation.

To be able to conduct and summarise independent research and will be able to translate theoretical concepts into spatial configurations

Value:

For the subject, it will strongly prepare the students to list the terms and objectives while documenting exercises related to transportation.

In order to define the vocabulary for traffic rules and regulations.

Skills:

To be able to demonstrate principles of road design and aptly apply in various other projects such as neighbourhood planning, local area planning, housing designs and sector designing. In statistical and analytical skills related to transportation, which will enhance and then will be able to convince peers.

Design:

At the end of semester students will gather the ability to design roads based on theory, strategize and plan economics involved in road infrastructure.



Approach

Transportation, although it involves designing, comprises empirical data at large. Faculty have adapted simple mathematical and numbers game mode, which would simplify the various statistical and empirical data within the subject. This game mode will make them understand about signal time, surveys regarding vehicle count & occupancy, distances, regions and zones, land-use planning, and geometric designs.

Teaching Method

The teaching is based on the lectures and presentations, which initiates collaborative learning. The semester also involves seminars, conducting traffic surveys and exploratory exercises, which would make them understand the pragmatics involved in transportation. Each student is required to submit the required outcomes on specified dates.

Lesson Plan

S.No.	Week	Date	Topic
1	Week 01	07-01-21	Introduction -Course Content for the subject
2	Week 02	15-01-21	Role and importance of transport, characteristics and role of various forms of transport systems road, rail, air, water;
3	Week 03	22-01-21	Evolution of mass transport development in India, urbanization and transport demand, motorization trends
4	Week 04	29-02-21	Concept of PCU and level of service, capacity of uninterrupted flow conditions, factors affecting capacity and level of service
5	Week 05	05-02-21	Capacity of rural and urban roads, capacity at intersections.
6	Week 06	12-02-21	Traffic Volume Count, origin destination survey, speed and delay study, parking surveys, road network inventory, accident study
7	Week 07	19-02-21	Need, design of survey proforma, methods of conducting surveys, analysis, and interpretation;
8	Week 08	26-02-21	Roads: Road hierarchy, design control and criteria, geometric design elements, sight distance, and control of access; at grade and grade-separated intersections
9	Week 09	05-03-21	Traffic Signs - principles, types and design considerations, road markings
10	Week 10	12-03-21	Regulation of Traffic - speed regulation, regulation of vehicle, parking regulations, Case Studies



11	Week 11	19-03-21	Traffic Signals - types, optimal cycle length, and signal settings, warrants
12	Week 12	26-03-21	Parking: Parking space norms and standards, design standards
13	Week 13	02-04-21	Pedestrian Facilities: Capacity guidelines for at-grade and grade-separated facilities,
14	Week 14	09-04-21	Design considerations Cycling Facilities: Capacity guidelines and design considerations for cycle tracks
15	Week 15	16-04-21	Public Transport / Para Transit Facilities
16	Week 16	23-04-21	Design standards for bus stops, auto-rickshaw, taxi, cycle- rickshaw stands

Plagiarism

What is Plagiarism?

The theft of ideas (such as the plots of narrative or dramatic works) or of written passages or works, where these are passed off as one's own work without acknowledgement of their true origin; or a piece of writing thus stolen.

-- The Oxford Dictionary of Literary Terms. 2008. Oxford University Press.

Common Forms of Plagiarism

- Copying directly from others without acknowledgement of the original source
- Using ideas or rephrasing text without acknowledgement of the original source
- Using charts, tables, pictures or diagrams from others without referencing
- Reusing some parts of your previous work
- Submitting other people's work as your own

How to avoid plagiarism?

- Use your own ideas.
- Paraphrase + give proper credit to the original source.
- Use quotation marks when using exact words from other authors + give proper credit to the original source.
- Organize and track your sources and materials



Recommended Databases

- Arasan, V, Thamizh (2004), "Transportation Systems Planning and Operation", Allied

Publishers Pvt. Ltd., Chennai.

- Guidelines on Low-cost Traffic Management Techniques for Urban Areas, (2001), Indian Roads Congress.
- Kadiyali, L. R. (1991), "Traffic Engineering and Transport Planning", Khanna Publishers, New Delhi.
- Kanda, Arun and Others (2002), "Transportation Systems: status and directions", Phoenix Publishing House Pvt. Ltd., New Delhi.
- Motor Vehicle Act, 1988, Govt. of India.
- Indian Journal of Transport Management, CIRT, Pune.
- Indian Highways (Journals), Indian Road Congress, New Delhi.
- Sarkar P.K., Maitri V. and Joshi G.J. (2014) Transportation Planning: Principles, Practices and Policies, Prentice Hall India Learning Private Limited, New Delhi.
- Saxena, S.C. (1989) A Course in Traffic Planning and Design, Dhanpat Rai and Sons, New Delhi.
- Verma, A. and Ramanayya, T.V. (2014) Public Transport Planning and Management in Developing Countries, CRC Press, London.



08/9/2020

Office Order

School of Design, Sushant University will be offering Value Added course in the Academic session 2020-21 ODD Semester 1,3,5.

Course Details

S.No	Name of the Value-Added course	Duration (Contact Hours)	Courses offered for	Resource Person	Date of Commencement
1	Creative Practices	35	SOD 2016-19 (I,II,IIIYear)	Simar Dhingra	08/09/2020

The Syllabus of the courses offered is attached for your reference as annexures.
The assessment of the same will be as under:

Assessment Procedure

S.No	Name of the Value-Added course	Assessment methodology/Components
1	Creative Practices	Present the journey of design in the form of a narrative with problem situations and how they were overcome by the team

It is **mandatory for the students of the respective batches** (as mentioned in the course detail sheet) to attend the Value-added courses specially curated for them based on the gaps and need analysis. The same will be beneficial for the students and will contribute to lifelong learning.

The courses are offered **free of cost and certificates will be presented to students post completion of the course.**

For any queries related to the Value-added course kindly contact the undersigned

Value Added Course offered by:

SIMAR DHINGRA

+91 9413043484
ar.simardhingra@gmail.com

CAREER OBJECTIVE:

My objective is to obtain a position in a professional environment where my skills are valued and can benefit the organization.

PROFESSIONAL SYNOPSIS:

Assistant Professor at School of Design, Sushant University, Gurugram: August-2020 to Present

Key Responsibilities- Admission, Admin, Academics

- Worked as Assistant Professor in School of Design and School of Architecture.
- **Associated as an Coordinator for B.Des Foundation.**
- Working as Admission Coordinator for the department as set to enhance number of students for School of Design.
- Coordinating for other matters like Scholarship, Lateral Entry Admissions, Student Welfare etc.
- Active member in Spatial Design Domain Team; Admission related Counseling and workshops.
- Developed school curriculums along with lesson plans, assessment rubrics, and supportive pedagogy inventory.

Assistant Professor at CODE, Vivekananda Global University, Jaipur: April-2019 to August-2020

Key Responsibilities- Admission, Admin, Academics

- Worked as Assistant Professor in Department of Architecture & Interior Design.
- Associated as an Academic Head for Architecture 1st year & Coordinator for M-Des UX Design.
- Actively participated in the national level event "STAMBH"; "ENCODE" & "#NOLOCKDOWNONEDUCATION" organized by CODE.
- Coordinated the academic of the department as set.
- Worked in the admission cell to enhance number of students for Centre of Design Excellence.
- Scheduled academic activities and events and meetings related to both Architecture and Interiors.

Assistant Professor at Poornima University, Jaipur: January-2018 to Nov-2018

Key Responsibilities- Admission, Admin, Academics

- Worked as Assistant Professor in Department of Interior Design.
- Coordinated the academic of the department as set.
- Associated as a coordinator for training and placement.
- Prepared scheme and syllabus of the Interior Design Department.
- Providing inputs/signing off on the project progress at various steps.
- Worked in the admission cell to enhance number of students for the School of Design.
- Anchoring for the Poornima Trends 2018- Annual Fashion Show at Hotel ITC Rajputana, Jaipur.
- Scheduled academic activities and events and meetings related to course including IIID Symposium, Jaipur Chapter held during the tenure.

Design Head at Featherlite (Supertech) India Pvt. Ltd., New Delhi: November-2015 to May- 2017

I was employed with Featherlite as a Designer (Nov-15 to Oct-16) and with sincere efforts & excellent performance, got promoted in Nov-16 for the position of Design Head.

Key Responsibilities-

Making CAD layout plans, Production Drawings and Furnishing technical & commercial data for Management of projects.

Major Project-

Featherlite Corporate Office, Noida; Make My Trip Corporate Office, New Delhi; The British School, New Delhi, BIBA Rangriti, Delhi NCR

Working as a Freelancer and Third Party Consultants for various projects like Supertech India Pvt. Ltd , Noida; Featherlite Corporate Office & Showroom, Noida; Residential & Interior Drawings in Bhilwara & Jaipur.

Junior Architect at First Principle Design Pvt Ltd, Kalka Extn, New Delhi: June-2015 to November-2015

Key Responsibilities- Working Drawing, Presentation Drawing, Project Coordination (Individual Bungalows, Apartments, Commercial Building)

Dilip Soni Architects, Navrangpura, Ahmedabad, Gujarat: January- 2014 to June-2014 (Internship)

Key Responsibilities- Working Drawing, Presentation Drawing (Residences, Schools & Club House)



Sushant University
School of Design



Creative Practices

This module introduces students to the basic design tools required for constructing, analysing and addressing design problem briefs. Research and insight gathering methods are introduced as an integral part of the design process. Students learn the basic design processes necessary to successfully develop and progress ideas and concepts.

Its a non-credited course*

Prof. Simar Dhingra
(Assistant Professor)
September 2020 - November 2020



SOD_SUSHANTUNIVERSITY
Posts

Sasi Gopal Menon and Mr Sanath PC... more
9 September 2020

sod_sushantuniversity

Sushant University
School of Design



Creative Practices

This module introduces students to the basic design tools required for constructing, analysing and addressing design problem briefs. Research and insight gathering methods are introduced as an integral part of the design process. Students learn the basic design processes necessary to successfully develop and progress ideas and concepts.

Its a non-credited course*

Prof. Simar Dhingra
(Assistant Professor)
September 2020 - November 2020

View Insights Boost post

♥️ 💬 📍 📌

👤 Liked by inspired_room and 16 others

sod_sushantuniversity Value added Course:
Creative Practices
7 September 2020

🏠 🔍 + 📺 📵



Simar

PUBLICATIONS:

- Research Paper on “Interior Lighting Influences Work Efficiency and Human Behaviour”

WORKSHOPS AND CONFERENCES ATTENDED:

- International Conference on “Design Education for better World”, CODE, VGU, Jan 11th, 2020, Jaipur
- International Conference on Augmenting Nature by Green Affordable New- Habitat, BEE, Sept 9th to 11th, 2019, New Delhi
- National Conference on “Reviving Regional Wisdom in Architecture”, SPA, Poornima University, March 9th & 10th, 2018, Jaipur
- Workshop on “Think Solar”, CODE, VGU, Jaipur
- Workshop on “Bloom’s Taxonomy”, CODE, VGU, Jaipur
- FDP- Training of thoughts; Mud Futures; FACTORR at Sushant University, Gurugram

EDUCATION:

- 2015-2017: MBA (Design Management)- Jaipur National University, Jaipur, Rajasthan
- 2010-2015: B.Arch. (Interior Design)- Aayojan School of Architecture, Jaipur, Rajasthan
- 2009-2010: Class XII CBSE Board- Central Academy, Bhilwara, Rajasthan
- 2007-2008: Class X CBSE Board- Sophia Sr. Sec. School, Bhilwara, Rajasthan

ACHIEVEMENTS:

- Secured Merit Position in University and Awarded by Honorable Governor of Rajasthan
- Secured second position in Badminton (Faculty Mixed Doubles)- Pratishtha 2020 at CODE, VGU.
- Topped (second) in College Thesis 2015 - Contemporary Sikh Religious Centre
- Scored highest Marks in Various Semesters among Batch
- School Captain (Sophia Sr. Sec. School) 2008-09

PROFICIENCY:

- Advance Level – AutoCad (2D+3D), Google Sketch up, Microsoft Office- PowerPoint, Word
- Basic Level – Autodesk Revit Architecture, Adobe Photoshop

SKILLS & STRENGTHS:

Strong Design Skills
Leadership Quality
Conceptual Sketching
Strong Communication

Collaborative
Time Management
Strong Motivational
Ability to give the best result in pressure situations

**PERSONAL DOSSIER:**

Date of Birth : 22 October, 1992
Gender : Female
Languages Known : English, Hindi & Punjabi
Marital Status : Married



Date:

SIMAR DHINGRA



Its a non-credit Course
Subject Name: Creative Practice
Subject Code: 20BDSFD06CP2P
Year 1 Semester 2
Name of Faculty: Simar Dhingra
Contact Days | Hours: 35 Hours

Subject Outline

Aim

This module introduces students to the basic design tools required for constructing, analysing and addressing design problem briefs. Research and insight gathering methods are introduced as an integral part of the design process. Students learn the basic design processes necessary to successfully develop and progress ideas and concepts.

Designers draw their inspiration from multiple sources to address challenging design problems. One method is to study nature, and attempt to comprehend the ways in which it has evolved to address social challenges.

Teaching Method

Since it is a studio-based project, the following methods are expected to be adopted as per the need of the hour

- Lectures
- Self-Study Assignments as per the progress of the Studio
- Peer-group discussions and evaluations
- Discussions and constructive crits through Juries.

Learning Outcomes

1. *Knowledge (Remember + Understand)*

Ability to recognize various stages of and use basic creative design development processes.

Understanding 'empathic design process' through a critical analysis and use of 'Design Thinking'

2. *Skills (Apply +Analyze)*

Ability to identify and use basic methods of research and insight gathering

Make diagrams in order to express the response in context to design

3. *Values, Orientations and Awareness (Evaluate)*

Basic idea of problem solving, work productivity as individual and in groups.

4. *Design (Create)*

Create design ideas inspired from human personality traits.

Schedule

WEEK DATE	LECTURE	TASK
Week 1 8 th -12 th Feb' 2021	Introduction to subject and its relevance Assessment 1: Design Process	<i>Analysing a daily life product on behalf of suggested parameters. (Detailed brief shared with students)</i>
Week 2 8 th -12 th March' 2021	Problem Identification: The case for innovation in the context of Design Problem of differentiation and characterization in design.	<i>In groups of 3-4 students each, explore the broad category of social problems as suggested, understanding the problem at Global level and then drawing parallel understanding of the issue within its purview at local level. Outline possible issues that may be possible to address through design.</i>



	<p>Creativity as Teamwork</p> <p>Understanding different design team roles (design agency) Assign each team member distinct role as interior designer/product design/fashion designer or visual communicator.</p> <p>Visit site/ conduct stakeholder survey.</p>	<p>Choose a product/service or space and design it using principles of symbolic characterization.</p> <p>Sketch out ideas that can be possible resolutions for issues at hand. Complete background research to close arguments about issues and possible design solutions</p>
	<p>Understanding target audience/ User</p>	<p>Presentation of cohesive ideas from previous work focusing on research for the chosen issue at hand.</p> <p>Perform interview/survey and find out about need/problem related to use of a product.</p> <p>And to draw a persona of a typical user in a category and to outline their requirement by empathetically listening to them or by observing them.</p>
<p>Week 3 22nd- 23rd March' 2021</p>	<p>Define design brief & idea development of all the information collected from target audience, refine to focus on the most significant problem</p>	<p>Use brainstorming to filter relevant information about key issues. If required go back to a particular user to check their personal take on the issues. Team members of a group individually work on multiple ideas/solutions according to their domain expertise.</p>
<p>Week 4 22nd- 30th April' 2021</p>	<p>Prototyping Iteration 01</p> <p>Based on previous discussions in class and presentation of ideas to peers, develop prototype for first iteration</p>	<p>Present multiple ideas in form of solution to the given problem using appropriate medium.</p>
	<p>Prototype Iteration 02</p> <p>Explore available material for creating a raw prototype.</p>	<p>Create a prototype using paper, cardboard corrugated sheets.</p>
	<p>Test Taking feedback from the user helps in understanding weakness in solution and open possibilities for iterations.</p>	<p>Create a survey questionnaire to take feedback from the user.</p>
	<p>Converting user feedback for recreating a more detailed design solution.</p>	<p>Present multiple ideas to address issues in user feedback.</p>
	<p>Design Development Converting user feedback for recreating a more detailed design solution</p>	<p>Present multiple ideas to address issues in user feedback</p>
<p>Week 5 06th- 07th May' 2021</p>	<p>Present the story Expressing a design solution in the form of story of solutions that worked and those that did not work gives an idea of the whole design process in a more humane way.</p>	<p>Final Assessment Present the journey of design in the form of a narrative with problem situations and how they were overcome by the team.</p>
<p>Week 6 11th- 14th May' 2021</p>	<p>Doubt Clearing Session; Reviews Final Assessment</p>	<p>Subject Portfolio</p>

Deliverables

Assessment 01: Analysing a daily life product on behalf of suggested parameters. - PPT

Assessment 02:

How can 'Something' be designed better. – PPT

The new happier 'Something'. – PPT, Prototype



Summative Assessment Components and Criteria

Assignment No.	Assignment Type	Specifications	Weightage	Submission Date	Learning Outcomes
Assessment 1	Individual	Design Process	30% of total marks	Due week 1	LO 01; LO 02 & LO 03
Assessment 2	Individual	Design "Something"	60% of total marks	Due week 5	LO 01; LO 02 & LO 03
Assessment 3	Individual	Subject Portfolio	10% of total marks	Due Week 6	

Grading Criteria

	MSE	ESE
Weightage (%) 100	40	60

Assessment Rubrics

LEARNING OUTCOMES	Exemplary	Developed	Developing	Satisfactory	Unsatisfactory
<p><i>Learning Outcome 1</i></p> <p>Ability to recognize various stages of and use basic creative design development processes.</p> <p>Understanding 'empathic design process' through a critical analysis and use of 'Design Thinking'</p>					
<p><i>Learning Outcome 2</i></p> <p>Ability to identify and use basic methods of research and insight gathering</p> <p>Make diagrams in order to express the response in context to design</p>					
<p><i>Learning Outcome 3</i></p> <p>Basic idea of problem solving, work productivity as individual and in groups.</p>					
<p><i>Learning Outcome 4</i></p> <p>Create design ideas inspired from human personality traits.</p>					
OUTPUT BASED	Stage of Task Completion along with ambiguity and punctuality				





Plagiarism

What is Plagiarism?

The theft of ideas (such as the plots of narrative or dramatic works) or of written passages or works, where these are passed off as one's own work without acknowledgement of their true origin; or a piece of writing thus stolen.

-- The Oxford Dictionary of Literary Terms. 2008. Oxford University Press.

Common Forms of Plagiarism

- Copying directly from others without acknowledgement of the original source
- Using ideas or rephrasing text from without acknowledgement of the original source
- Using charts, tables, pictures or diagrams from others without referencing
- Reusing some parts of your previous work
- Submitting other people's work as your own

How to avoid plagiarism?

- Use your own ideas.
- Paraphrase + give proper credit to the original source.
- Use quotation marks when using exact words from other authors + give proper credit to the original source.
- Organize and track your sources and materials

Recommended Text:

- BROWN, T., & KATZ, B. (2019). Change by design: how design thinking transforms organizations and inspires innovation. New York, HarperBusiness.
- EYAL, N. (2016). Hooked: how to build habit-forming products. Norwick, Penguin Books.
- ELON University, n.d. Design Thinking and Social Innovation Overview, Available from: <https://blogs.elon.edu/innovationstudio/design-thinking-and-social-innovation-overview/>
- DESMET, P. (2002). Designing emotions. Delft, Technische Universiteit Delft. Available Online at <https://studiolab.ide.tudelft.nl/studiolab/desmet/files/2011/09/thesis-designingemotions.pdf> [Accessed 25th Aug 2019]
- NORMAN, D. A. (2007). Emotional design: why we love (or hate) everyday things. New York, NY, Basic Books.
- NORMAN, D. A. (2013). The design of everyday things. New York, Basic Books.
- The Hong Kong Polytechnic University, June 2015. Young designers bring positive change to society, Available from: <https://www.polyu.edu.hk/cpa/excel/en/201506/snapshots/s1/index.html>
- Enterprise Design Thinking, n.d. Available from: <https://www.ibm.com/design/thinking/page/toolkit>
- CITL, n.d. Design Thinking. Available from: <https://citl.illinois.edu/paradigms/design-thinking>
- Design Foundation, n.d. Design Thinking, Available from: <https://www.interactiondesign.org/literature/topics/design-thinking>
- TEDx Talks. "TEDxHogeschoolUtrecht - Pieter Desmet - Design for Happiness", Published [Dec 17, 2011]. YouTube video, 15:47, Posted [Dec 2017], Available at <https://www.youtube.com/watch?v=|TzXSjQd8So>

Online Sources:

JSTOR Full Text

Web of Science Full Text

Oxford Art Online (trial till October)

These and other databases can be found in <http://libguides.lib.xjtlu.edu.cn/architecture>



Amr

9

25/01/2021

Office Order

School of Business, Sushant University will be offering the following Value-Added Course in the Even Semester, 2020-2021 academic year (Jan to May).

A value-added course is a specialized program designed to enhance specific skills or knowledge areas beyond the core curriculum. It offers practical and industry-relevant training, equipping individuals with valuable expertise and increasing their employability.

Course Details

S. No	Course Title	Course Code	Course Offered for	Course Instructor	Date of Commencement	Duration of Course
1	Digital Literacy	20SOB-VA01	All active SOB students	Ms. Suman Dahiya	8/02/2021	32 Hours

The Syllabus of the courses offered is attached for your reference as annexures.


This course is optional for all the students of School of Business to attend the Value-added courses specially curated for them based on the gaps and need analysis. However, it is advisable for all the students to register for the course. The same will be advantageous for the students and support lifelong learning.


This course is offered **free of cost** and certificates will be presented to students post successful completion of the course, **to those who have maintained a minimum attendance of 75%**.

For any queries related to the Value-added course kindly contact the undersigned

Ms. Suman Dahiya

Course Instructor – Value-added Course


Officiating Dean
School of Business


Dean
School of Business
Sushant University
Sec-55, Gurugram



Value Added Course (Non-Credit)

Digital Literacy

Program Highlights:

- Explore digital landscape and emerging technologies
- Efficient web browsing techniques & search strategies
- Recognizing and avoiding online scams & phishing attacks
- Responsible use of digital technology

Start Date: 8th February 2021

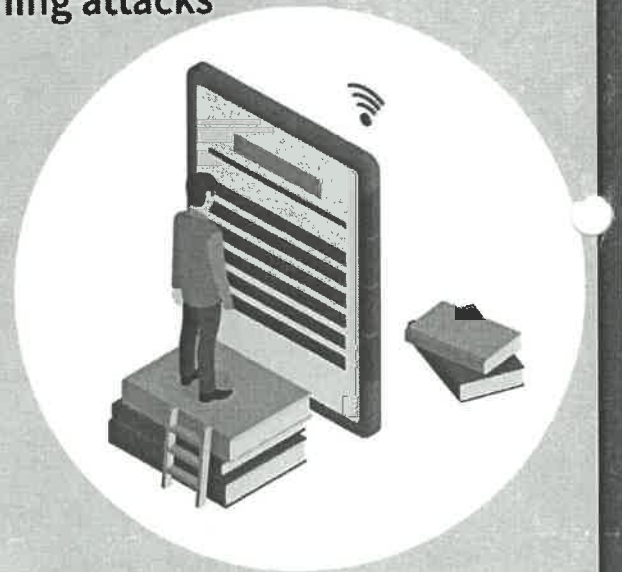
End Date: 24th May 2021

Contact Hours - 32

Course Coordinator :

Ms. Suman Dahiya

Certificates will be awarded at the completion of the value added course



Dean
School of Business
Sushant University
Sector 56, Gurugram

A handwritten signature in blue ink, written over the printed name of the Dean.

Dean

VALUE ADDED COURSE SYLLABUS

Course Title: Digital Literacy

Course Code: 20SOB-VA01

Contact Hours: 32

Credits: Non-Credit

Course Objectives:

This value-added course aims to equip students with essential digital literacy skills necessary for effective participation in the digital age. The course covers a wide range of topics, including digital tools, online communication, information literacy, and responsible digital citizenship. Through hands-on activities and practical exercises, students will develop the knowledge and skills required to navigate and utilize digital technologies confidently and responsibly.

Course Outcomes:

CO1: Demonstrate a comprehensive understanding of digital literacy and its significance in the modern world.

CO2: Utilize various digital tools and applications effectively for personal and professional purposes.

CO3: Communicate and collaborate online using appropriate etiquette and platforms.

CO4: Evaluate the credibility and reliability of digital content and apply critical thinking skills.

Course Contents:

Module 1: Introduction to Digital Literacy and Basic Computer Skills

Definition and significance of digital literacy, Exploring the digital landscape and emerging technologies, Understanding the impact of digital technology on society and individuals, Introduction to computer hardware and software, Operating system fundamentals, File management and organization

Module 2: Digital Communication and Collaboration and Internet and Web Browsing

Email etiquette and effective email communication, Instant messaging and video conferencing tools, Online collaboration platforms and tools, Understanding the structure and functioning of the internet, Efficient web browsing techniques and search strategies, Evaluating the credibility and reliability of online sources

Module 3: Information Literacy and Digital Privacy and Security

Introduction to information literacy and its importance, Evaluating and citing digital sources, Avoiding plagiarism and respecting intellectual property rights, Understanding online privacy risks and best practices, Securing personal information and preventing identity theft, Recognizing and avoiding online scams and phishing attacks

Dean
School Of Business
Sushant University
Sec-55, Gurugram Haryana



Module 4: Digital Citizenship and Ethics and Digital Productivity Tools

Responsible use of digital technology and resources, Ethical considerations in digital, communication and content creation, Promoting a positive digital presence and combating cyberbullying, Introduction to productivity tools (e.g., word processing, spreadsheets, presentation software), Effective use of cloud storage and file sharing platforms, Time management and task organization with digital tools, Exploring emerging technologies (e.g., artificial intelligence, virtual reality), Identifying future digital skills and career opportunities, Staying updated and adapting to digital advancements

Textbook:

1. Digital Literacy for Dummies" by Faithe Wempen

Reference Books:

1. Digital Citizenship in Schools" by Mike Ribble
2. Information Literacy: Research and Collaboration across Disciplines" by Trudi Jacobson and Thomas Mackey
3. Netiquette: Internet Etiquette in the Age of the Blog" by Matthew Strawbridge
4. The Art of Invisibility: The World's Most Famous Hacker Teaches You How to Be Safe in the Age of Big Brother and Big Data" by Kevin Mitnick

Dean
School Of Business
Sushant University
Sec-55, Gurugram Haryana



Course Outline

Course Title: Digital Literacy

Semester: Even	Academic Year: 2020-21	Value Added Course	Credits: Non – Credited
-----------------------	-------------------------------	---------------------------	--------------------------------

Course Designed by: Ms. Suman Dahiya e:mail: sumandahiya@sushantuniversity.edu.in	Course Instructor: Ms. Suman Dahiya e:mail: sumandahiya@sushantuniversity.edu.in
--	---

Pre-requisites: N/A

Ser. No.	Date	Week No	Session No.	Content covered	Pedagogy
1	12 Feb	1	1 & 2	Definition and significance of digital literacy	<ul style="list-style-type: none"> Start with a brief discussion about the prevalence of digital technology in daily life. Highlight the importance of digital literacy in navigating this digital landscape.
2	19 Feb	2	3 & 4	Exploring the digital landscape and emerging technologies	<ul style="list-style-type: none"> Encourage active engagement with emerging technologies through practical exercises and experimentation.
3	26 Feb	3	5 & 6	Understanding the impact of digital technology on society and individuals	<ul style="list-style-type: none"> Analyze multimedia content, such as news articles, videos, and social media, to facilitate a deeper understanding of digital technology's influence on society and personal lives.
4	5 Mar	4	7 & 8	Introduction to computer hardware and software	<ul style="list-style-type: none"> Hands-On Demonstrations: Begin with practical demonstrations of computer hardware components and software interfaces to provide a tangible introduction.
5	12 Mar	5	9 & 10	File management and organization	<ul style="list-style-type: none"> Step-by-Step Tutorials: Provide clear, step-by-step tutorials on how to create, organize, and manage files and folders on various platforms.
6	19 Mar	6	11 & 12	Email etiquette and effective email communication	<ul style="list-style-type: none"> Guided Discussions: Engage in guided discussions about email etiquette, sharing real-world examples and best practices to enhance learners' email communication skills.



(Signature)
Dean
School Of Business
Sushant University
Sec-55, Gurugram Haryana

7	26 Mar	7	13 & 14	Instant messaging and video conferencing tools	<ul style="list-style-type: none"> Encourage learners to engage in collaborative activities, like group discussions or mock video conferences, using these tools to develop practical skills and understand their applications.
8	2 Apr	8	15 & 16	Online collaboration platforms and tools	<ul style="list-style-type: none"> Start with an overview of online collaboration platforms and tools, allowing learners to explore their features and functions.
9	9 Apr	9	17 & 18	Understanding the structure and functioning of the internet, Efficient web browsing techniques and search strategies,	<ul style="list-style-type: none"> Visual Diagrams and Interactive Demonstrations: Use visual aids and interactive demonstrations to explain the structure and functioning of the internet
10	16 Apr	10	19 & 20	Evaluating the credibility and reliability of online sources	<ul style="list-style-type: none"> Practical Exercises: Provide practice exercises where learners critically assess and compare online sources to develop their skills in discerning credible and reliable information from unreliable sources.
11	23 Apr	11	21 & 22	Introduction to information literacy and its importance, Evaluating and citing digital sources	<ul style="list-style-type: none"> Guided Practice: Engage learners in guided exercises to evaluate digital sources for credibility and practice citing sources properly using recognized citation styles like APA or MLA.
12	30 Apr	12	23 & 24	Avoiding plagiarism and respecting intellectual property rights	<ul style="list-style-type: none"> Interactive Scenarios: Present interactive scenarios and exercises where learners identify and rectify instances of plagiarism while emphasizing the importance of respecting intellectual property rights.
13	7 May	13	25 & 26	Understanding online privacy risks and best practices	<ul style="list-style-type: none"> Privacy Best Practices: Engage learners in discussions and activities that promote privacy best practices, such as using strong passwords, enabling two-factor authentication, and being cautious about sharing personal information online.
14	14 May	14	27 & 28	Securing personal information and preventing identity theft	<ul style="list-style-type: none"> Hands-On Safeguarding: Conduct practical exercises and discussions on securing personal information, including password management, recognizing phishing attempts, and protecting sensitive data, empowering learners to prevent identity theft.



Dean
School Of Online
Sushant University
Sec-55, Gurugram

Resource Person – Value Added Course

Ms. Suman Dahiya

Assistant Professor
(M.B. A., UGC-NET)

Affiliation : Assistant Professor, Sushant University,
Gurugram – 122003, Haryana

Permanent Address : A3-1105, Ireo Skyon, Sector 60,
Gurugram - 122005, Haryana

Phone / Mobile : +91-8586928580

Email : sumandahiya@sushantuniversity.edu.in

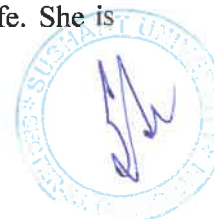


Ms Suman Dahiya is a prolific researcher and an academician of repute. Ms. Suman holds MBA degree in marketing and UGC-NET qualified. She did her Ph.D. in Management from prestigious Deenbandhu Chhotu Ram University of Science and Technology. Ms. Suman has 12 years of experience in teaching, institution building and has undertaken various prominent responsibilities other than teaching. Her teaching and research areas of interest are marketing and general management like Marketing Management, Organization Behavior, Strategic Management, Consumer Behavior and Digital Marketing.

She has been a recipient of various prizes and awards in quizzing and other marketing competitions. She has published more than dozen research papers in reputed ABDC/Scopus Indexed and UGC Care listed journals. She has published 5 patents in the field of digital marketing and social media marketing. She has delivered many talks as a guest speaker in FDPs and MDPs. She has also helped many start-ups for designing their brand strategy, digital strategy and developing their web content.

Ms. Suman is extremely hardworking, enthusiastic person and dedicated to the noble profession of academia and believes in sharing of knowledge at all platforms in life. She is known for her innovative teaching methodology.

Dean
School Of Business
Sushant University
Sec-55, Gurugram Haryana



Office Order

Sushant School of Health Sciences, Ansal University will be Offering Value Added courses in the Academic session 2020-21 – Odd Semester.

Course Details

S.No	Name of the Value-Added course	Duration (Contact Hours)	Courses offered for	Resource Person	Date of Commencement
1	Self Grooming and Care	30	All SHS Students	Ms. Roshni	14/09/2020

The Syllabus of the courses offered is attached for your reference as annexures.

The assessment of the same will be as under:

Assessment Procedure

S.No	Name of the Value-Added course	Assessment methodology/Components
1	Self Grooming and Care	Group Discussions, Attendance & Engagement

Students from all departments of SHS are encouraged to participate in specially designed value-added courses that cater to their specific needs and address any knowledge gaps. These courses aim to enhance their learning experience and promote lifelong learning.

The courses are offered **free of cost and certificates will be awarded to students only with minimum 75% attendance and minimum 40% marks post completion of the course.**

For any queries related to the Value-added course kindly contact the undersigned.

Ms. Roshni Sengupta
Assistant Professor- Department of Optometry, SHS
Coordinator incharge- Value added Courses



Program Coordinator

Dean



Director
School of Health Sciences
Sushant University (erstwhile Ansal University)
Sector-55, Gurugram, Haryana



Value Added Course

“Self Grooming and Care”

(Non-Credited Course)

14th September to 21st December, 2020

Course Coordinator

Ms. Roshni Sengupta

OPEN TO ALL SHS STUDENTS

Duration: 30hrs.




Platform: Online




Director
School of Health Sciences
Sushant University (Erstwhile Ansal University)
Sector-55, Gurugram, Haryana

SYLLABUS- Value added Course

	Sushant School of Health Sciences		
Detailed Teaching Plan			
Value added Course Code: 20SHS-VA01	Value added Course Title : Self-Grooming and Care: Enhancing Personal Well-being and Confidence		
Academic Year: 2020-21	Term :	Core/Elective: Elective	Credits: NIL
Course Designed by: Ms Roshni Sengupta e-mail: roshnisengupta@sushantuniversity.edu.in		Course Instructor: Ms Roshni Sengupta	
Course Pre-requisites: None		No. of sessions: 30	

1. Course Description

The "Self-Grooming and Care" course is designed to empower individuals with essential skills and knowledge to enhance their personal well-being, self-confidence, and overall appearance. Participants will learn practical techniques for grooming, skincare, hairstyling, makeup application, and wardrobe management. Through interactive lessons and hands-on activities, this course aims to help individuals develop a positive self-image, improve self-care practices, and boost their confidence in various social and professional settings.

Employability-level: Foundation Skill

1. Foundation Core	2. Foundation Skill	3. Professional Core	4. Professional Skill	5. Premier Skill
		✓	✓	

2. Course Objectives

The objective of the "Self-Grooming and Care: Enhancing Personal Well-being and Confidence" course is to empower individuals with the knowledge, skills, and confidence to take care of their physical appearance, develop effective grooming routines, and enhance their overall well-being. Through practical lessons and interactive activities, participants will learn techniques for skincare, hairstyling, makeup application, and wardrobe

management, leading to improved self-image and increased self-confidence.

3. Course Learning Outcomes

Upon successful completion of the course, the students should be able to:

- ✓ Understand the importance of self-grooming and its impact on personal well-being and confidence.
- ✓ Identify personal grooming goals and develop realistic expectations for self-improvement.
- ✓ Demonstrate knowledge of skincare techniques and develop a personalized skincare routine for different skin types.
- ✓ Apply hairstyling techniques to create versatile hairstyles for everyday and special occasions.
- ✓ Apply basic makeup techniques to enhance natural features and achieve desired looks.
- ✓ Understand body proportions and personal style preferences to build a versatile wardrobe with essential pieces and accessories.
- ✓ Mix and match outfits to create stylish and appropriate looks for different occasions.
- ✓ Demonstrate professional grooming standards and workplace etiquette for professional settings.
- ✓ Develop effective communication skills, body language, and grooming practices to project a professional image.
- ✓ Practice self-care rituals and develop a personalized self-care routine for physical, mental, and emotional well-being.
- ✓ Build self-confidence through positive self-talk, mindset development, and embracing personal uniqueness.
- ✓ Reflect on personal growth and apply learned techniques to maintain long-term self-grooming habits.

- ✓ Engage in discussions and share experiences with fellow participants to enhance learning and support personal growth.
- ✓ Access and utilize resources, recommended readings, and additional grooming tips for continuous self-improvement.
- ✓ Develop a positive self-image and enhance overall well-being through improved self-grooming practices.

4. Course Pedagogy

- ✓ **Online Discussions and Peer Feedback:** Discussion forums and online communities will be provided to facilitate interaction among participants. Learners can share their experiences, ask questions, and provide feedback to their peers, fostering a collaborative and supportive learning environment.
- ✓ **Case Studies and Real-life Scenarios:** Case studies and real-life scenarios will be presented to allow participants to apply their knowledge and skills in practical situations. They will analyze and propose appropriate grooming techniques, skincare routines, and styling options based on the given contexts.
- ✓ **Personal Reflection and Goal Setting:** Participants will be encouraged to engage in personal reflection activities to assess their own grooming habits, self-image, and confidence levels. They will set personal goals for self-improvement and track their progress throughout the course.

5. Course Contents and Schedule

Module 1: Introduction to Self-Grooming

- Understanding the importance of self-grooming and its impact on personal well-being and confidence.

- Identifying personal grooming goals and setting realistic expectations.

Module 2: Skincare and Healthy Complexion

- Understanding different skin types and common skin concerns.
- Developing a skincare routine for cleansing, moisturizing, and protecting the skin.
- Exploring natural remedies and skincare products suitable for individual skin types.

Module 3: Hairstyling Techniques

- Identifying different hair types, textures, and styling tools.
- Learning basic hairstyling techniques for everyday and special occasions.
- Exploring hair care tips and tricks for maintaining healthy and lustrous hair.

Module 4: Makeup Application Basics

- Understanding the purpose and benefits of makeup.
- Learning fundamental makeup techniques for a natural and enhanced look.
- Exploring different makeup products, tools, and their proper usage.

Module 5: Enhancing Facial Features

- Understanding facial anatomy and proportions.
- Exploring techniques for enhancing eyes, lips, and brows through makeup application.
- Practicing contouring, highlighting, and blush application to accentuate facial features.

Module 6: Wardrobe Essentials and Styling

- Assessing personal style preferences and body shape analysis.
- Building a versatile wardrobe with essential pieces and accessories.
- Learning how to mix and match outfits, creating stylish looks for different occasions.

Module 7: Professional Grooming and Etiquette

- Exploring professional grooming standards and workplace etiquette.
- Developing effective communication skills, body language, and grooming practices for professional settings.
- Understanding the importance of personal branding and maintaining a professional image.


Module 8: Confidence Building and Self-Care Practices

- Building self-confidence through positive self-talk and mindset development.
- Practicing self-care rituals for emotional well-being and stress management.
- Developing a personalized self-care routine to nurture physical, mental, and emotional health.

6. Course Assessment

The course is of 100 marks at the end of the end of all sessions. A minimum of **40%** score and **75%** attendance is required to get a certificate. Final Grades will be based on the relative performance of a student in the class.




Director
School of Health Sciences
Sushant University (erstwhile Ansal University)
Sector-33, Gurugram, Haryana

Office Order

Sushant School of Health Sciences, Ansal University will be Offering Value Added courses in the Academic session 2020-21 – Even Semester.

Course Details

S.No	Name of the Value-Added course	Duration (Contact Hours)	Courses offered for	Resource Person	Date of Commencement
1	Health and Covid-19 Understanding	30	All SHS Students	Ms. Roshni	02/02/2021

The Syllabus of the courses offered is attached for your reference as annexures.

The assessment of the same will be as under:

Assessment Procedure

S.No	Name of the Value-Added course	Assessment methodology/Components
1	Health and Covid-19 Understanding	Group Discussions, Attendance & Engagement

Students from all departments of SHS are encouraged to participate in specially designed value-added courses that cater to their specific needs and address any knowledge gaps. These courses aim to enhance their learning experience and promote lifelong learning.

The courses are offered **free of cost and certificates will be awarded to students only with minimum 75% attendance and minimum 40% marks post completion of the course.**

For any queries related to the Value-added course kindly contact the undersigned.

Ms. Roshni Sengupta
Assistant Professor- Department of Optometry, SHS
Coordinator incharge- Value added Courses

Roshni.

Program Coordinator

AKS
Director of Health Sciences
Dean
Shant University (Erstwhile Anand University)
Sector-54, Gurugram, Haryana



Value Added Course

“ Health & Covid 19 Understanding ”

(Non-Credited Course)

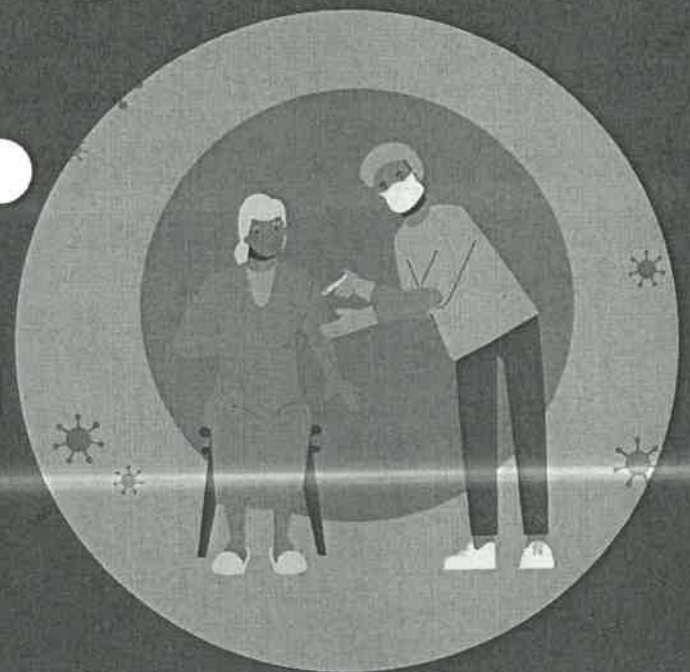
02nd Febuary to 10th May, 2021


Course Coordinator
Ms. Roshni Sengupta

OPEN TO ALL SHS STUDENTS


Duration: 30hrs.

Platform: Online




Director
School of Health Sciences
Sushant University (Erstwhile Ansal University)
Sector-55, Gurugram, Haryana

SYLLABUS- Value added course

 <p>Sushant University Erstwhile Ansal University Gurugram</p>	<p>School of Health Sciences</p>		
Detailed Teaching Plan			
Value added Course Code: 21SSHS-VA01	Value added Course Title : Health and COVID-19: Understanding, Prevention, and Well-being		
Academic Year: 2020-21	Term :	Core/Elective: Elective	Credits: NIL
Course Designed by: Tsering Lamu shongmu e-mail: tseringshongnu@sushantuniversity.edu.in		Course Instructor: Ms Roshni Sengupta	
Course Pre-requisites: None		No. of sessions: 30	

1. Course Description

The "Health and COVID-19" course aims to provide comprehensive knowledge and practical strategies for understanding, preventing, and promoting well-being during the COVID-19 pandemic. This course will cover various aspects of the virus, including its origins, transmission, symptoms, and impact on physical and mental health. Participants will gain insights into effective preventive measures, self-care practices, and strategies for maintaining overall well-being during challenging times.

Employability-level: Foundation Skill

1. Foundation Core	2. Foundation Skill	3. Professional Core	4. Professional Skill	5. Premier Skill
		✓	✓	

2. Course Objectives

This course on fundamentals of employability aims to:

- ✓ Understand the origins and global spread of COVID-19.
- ✓ Explain the impact of COVID-19 on public health and healthcare systems.
- ✓ Recognize the importance of accurate information and responsible communication during a pandemic.
- ✓ Understand different types of COVID-19 tests and their purpose.
- ✓ Explain the procedures for testing and diagnosis.

- ✓ Develop a comprehensive understanding of COVID-19 and its impact on health
- ✓ Acquire knowledge on effective preventive measures to reduce the risk of transmission
- ✓ Learn strategies for maintaining physical and mental well-being during the pandemic
- ✓ Gain practical insights on healthy lifestyle choices to support overall health
- ✓ Connect with a community of learners and experts for shared learning and support

3. Course Learning Outcomes

Upon successful completion of the course, the students should be able to:

- ✓ Understand the origins, transmission, and impact of COVID-19 on global health.
- ✓ Recognize and describe the common symptoms associated with COVID-19.
- ✓ Demonstrate knowledge of effective preventive measures to minimize the risk of COVID-19 transmission.
- ✓ Explain the importance of hand hygiene, mask-wearing, and respiratory etiquette in preventing the spread of the virus.
- ✓ Interpret COVID-19 test results and understand the procedures for testing and diagnosis.
- ✓ Identify strategies to maintain overall physical health during the COVID-19 pandemic.
- ✓ Demonstrate an understanding of the psychological impact of the pandemic and develop coping strategies to manage stress and anxiety.
- ✓ Describe the importance of self-care practices and resilience-building for mental well-being.
- ✓ Discuss the role of nutrition, exercise, and sleep in supporting a strong immune system and overall health during the pandemic.
- ✓ Apply knowledge gained to make informed decisions regarding personal and community health during the COVID-19 pandemic.
- ✓ Engage in discussions and exchange experiences with fellow learners to enhance understanding and promote shared learning.

- ✓ Access and utilize relevant resources, readings, and practical exercises to enhance knowledge and skills related to COVID-19.
- ✓ Reflect on personal experiences and develop strategies for maintaining a healthy work-life balance during challenging times.
- ✓ Demonstrate awareness of the ethical considerations and responsible behavior necessary to prevent the spread of COVID-19.

4. Course Pedagogy

- ✓ Blended Learning Approach: The course will employ a blended learning approach, combining online lectures, multimedia resources, interactive activities, and discussion forums to engage learners and facilitate knowledge acquisition.
- ✓ Multimedia Content: Lectures will be delivered through video modules, incorporating visual aids, graphics, and animations to enhance understanding and engagement. Supplementary materials such as infographics, articles, and case studies will be provided to reinforce key concepts.
- ✓ Interactive Assessments: Regular quizzes and assessments will be incorporated to assess learners' understanding of the course material. These assessments will provide immediate feedback to reinforce learning and identify areas that require further clarification.

5. Course Contents and Schedule

Module 1: Introduction to COVID-19

- ✓ Understanding the origins and spread of COVID-19
- ✓ Overview of COVID-19 symptoms and severity
- ✓ The global impact of the pandemic

Module 2: Transmission and Prevention

- ✓ Modes of transmission and how to minimize the risk
- ✓ Importance of hand hygiene, mask-wearing, and respiratory etiquette

- ✓ Social distancing and its effectiveness in preventing the spread

Module 3: COVID-19 Testing and Diagnosis

- ✓ Different types of COVID-19 tests and their accuracy
- ✓ Procedures for testing and diagnosis
- ✓ Interpreting test results and understanding their implications

Module 4: Physical Health and COVID-19

- ✓ Impact of COVID-19 on the respiratory system and other organs
- ✓ Managing symptoms and seeking medical help
- ✓ Strategies for maintaining overall physical health during the pandemic

Module 5: Mental Health and Well-being

- ✓ Understanding the psychological impact of the pandemic
- ✓ Coping with stress, anxiety, and uncertainty
- ✓ Promoting mental well-being through self-care and resilience-building

Module 6: Healthy Lifestyle and COVID-19

- ✓ Importance of nutrition, exercise, and sleep for a strong immune system
- ✓ Developing healthy habits amidst the pandemic
- ✓ Balancing work, family, and personal life during challenging times
- ✓ Course Delivery:
 - ✓ Lectures and presentations delivered through video modules
 - ✓ Interactive quizzes and assessments to reinforce learning
 - ✓ Discussion forums for participants to engage and share experiences
 - ✓ Recommended readings, resources, and practical exercises
 - ✓ Live webinars or Q&A sessions with experts in the field

6. Course Assessment

The course is of 100 marks at the end of the end of all sessions. A minimum of **40%** score and **75%** attendance is required to get a certificate. Final Grades will be based on the relative performance of a student in the class.



Curriculum Vitae- VALUE ADDED FACULTY
Value added Course- Health and COVID-19 understanding
Faculty – Ms. Roshni Sengupta
Value added course Code- 21SHS-VA01
Total hours- 30 hours

CURRICULUM VITAE

ROSHNI SENGUPTA

PhD Research Scholar
 Dept. Of Optometry, SHS
 Sushant University

Email: roshnisengupta20@gmail.com

Mobile: +91 7380632247



Career Objective

As an accomplished Optometrist, I am adept in research, clinical practice, and patient care. I am deeply committed to pursuing opportunities that expand my horizons beyond academia and research, while also fostering my professional development within an organization. My objective is to secure a challenging and rewarding role that will enable me to leverage my expertise and skills towards achieving both personal and organizational growth.

Academic Qualifications

PhD Research Scholar, Department of Optometry, Sushant University (*erstwhile* Ansal University)

Qualification (Degree)	Institution	University	Year of Passing	Percentage/DGPA
M. Optom	Ansal University	Ansal University	2020	7.808
B. Optom	VCOVS	MAKAUT	2017	9.22
CBSE	Kalyani Central Model School	AISCEE	2013	77.6%
ICSE	Auxilium Convent School, Bandel	CISCE	2011	81.6%

- Completed 6 months clinical Internship in **Elite School of Optometry and Sankara Nethralaya, Chennai** (July'16-December'16)
- Completed 6 months clinical Internship in **Sankara Nethralaya, Kolkata** (January'17-June'17)
- Attended various Optometry conferences (Optic Fair, EIVOC, KOC, OCICON, EVM Scientific Session) and vision camps
- Attended various clinical workshops on vision therapy, low vision, contact lens, dispensing
- Attended **Special Olympics Bharat** eye screening camp

WorkExperience

Sep'2020-Present:

Assistant Professor
 Sushant University

- Evaluated and graded undergraduate and post-graduated students' assignment and exam papers of optometry as well as intra-dept. subjects

I hereby certify that all the particulars stated above are to the best of my knowledge and believe true and fair.

Roshni Sengupta

**SUSHANT UNIVERSITY
(ERSTWHILE ANSAL UNIVERSITY)
SCHOOL OF ENGINEERING & TECHNOLOGY
OFFICE ORDER**

August 24, 2020

REF: SET/OO/August/24/2020/091

Value added course (VAC) will be offered by School of Engineering & Technology, Ansal University in the Academic Session 2020-21 (Odd Semester).

Value Added Course Details:

S. No	VAC Code	VAC - Title	Duration (Hours)	Date of Commencement	Faculty Name	Batch	Evaluation Criteria
1	20SET-VA01	Introduction to Industry 4.0 & IoT	30	01/September/2020	Mr. Anitm Dev Mishra	B.Tech (7 th Sem) (2017-21), B.Tech 5 th sem (2018-22), B.Tech 3 rd sem (2019-23), B.Tech 1 st sem (2020-24), BCA 1 st sem (2020-23) (CSE) B.Tech 7 th sem (2017-21) (CE)	75% Attendance & successful completion of assignment/presentation

Course Objectives:

1. To understand the fundamental concepts of Industry 4.0 and IoT, including their definitions and significance.
2. To examine real-world examples and applications of Industry 4.0 and IoT across different industries.
3. To gain practical experience by working with IoT devices and learning to collect and analyze data from them.
4. To discuss the challenges, risks, and future trends associated with the integration of Industry 4.0 and IoT technologies.

It is mandatory for the students to attend the value added courses during the academic year 2020-21 (Odd Semester). This is a noncredit course and certificates will be issued to students on completion of the program. For any queries regarding these courses, kindly contact the undersigned.

Mr. Anand Sharma
Assistant Professor-SET

Latha
Dean/Associate Dean - SET



Introducing
Value Added Courses

B.Tech 7th sem, B.Tech 5th sem,
B.Tech 3rd sem, B.Tech 1st sem (CSE)
(2017-21), (2018-22), (2019-23) and (2020-24)

BCA 1st sem (2020-23)
B.Tech 7th sem (CE) (2017-21)

**Classes to Commence from
01 September 2020**

VAC Code: 20SET-VA01

VAC TITLE

Introduction to Industry 4.0 & IoT

FACULTY

Mr. Antim Dev Mishra


Venue & Time Slot: D-305, Wed: 03:15 p.m. to 05:00 p.m.



VALUE ADDED COURSE SYLLABUS

Course Title: Introduction to Industry 4.0 & IoT

Resource Person: Mr. Antim Dev Mishra

	School of Engineering & Technology		
Course Outline			
Course Title: Introduction to Industry 4.0 & IoT			
Course Code- 20SET-VA01			
Semester: B.Tech (VII,V,III,I) Sem (CSE)/B.Tech (VII) Sem (CE)/BCA (I) Sem	Academic Year: 2020-21	Core/Elective: Value added course	Credits: 0
Course Designed by: Mr. Antim Dev Mishra E-mail: antimdevmishra@ansaluniversity.edu.in		Course Instructor: Mr. Antim Dev Mishra Email:antimdevmishra@ansaluniversity.edu.in	
Pre-requisites: None			

1. Course Outcome

1. Upon successful completion of the course, the students should be able to

CO1: To understand the fundamental concepts of Industry 4.0 and IoT, including their definitions and significance.

CO2: To examine real-world examples and applications of Industry 4.0 and IoT across different industries.

CO3: To gain practical experience by working with IoT devices and learning to collect and analyze data from them.

CO4: To discuss the challenges, risks, and future trends associated with the integration of Industry 4.0 and IoT technologies.

2. CO and PO mapping

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
C O1		L		H			L	H	M	H	L	H	M		
C O2			H			L	L		H	H		H			
C O3		M					L	H		H		H	H		
C			H			H	M		H		H	H			

O4															
C O5				H		H	H		H	H	H	H		H	

3. Syllabus:

Total Hrs.: 32

UNIT I- Introduction to Industry 4.0

Total: 6 hours

Overview of Industry 4.0 and its Evolution, Key Concepts and Principles of Industry 4.0, Importance of Industry 4.0 in Modern Manufacturing, Digital Transformation and Smart Factories, Ethical Considerations in Industry 4.0, Case Studies in Industry 4.0 Implementation

UNIT II – Internet of Things (IoT)

Total: 6 hours

Understanding IoT and its Role in Industry 4.0, IoT Architecture and Components, IoT Sensors and Data Collection, IoT Communication Protocols, IoT Applications in Industrial Settings, Security and Privacy Challenges in IoT

UNIT III - Data Analytics and Machine Learning in Industry 4.0

Total: 8 hours

Big Data and Analytics in Industry 4.0, Predictive Maintenance and Quality Control, Machine Learning and AI for Smart Manufacturing, Data Visualization and Decision Support, Ethical Considerations in Data Analytics, Case Studies in Data Analytics in Industry 4.0

UNIT IV- IoT in Manufacturing and Supply Chain

Total: 6 hours

IoT-enabled Smart Manufacturing, Supply Chain Optimization through IoT, Inventory Management and Tracking, Industrial Automation and Robotics, Sustainability and Environmental Impact, Ethical Considerations in IoT Manufacturing

UNIT V- Ethical and Social Implications of Industry 4.0 & IoT

Total: 6 hours

Ethical Considerations in IoT Data Usage, Privacy and Data Security in IoT, Industry 4.0's Impact on Employment and Workforce, Sustainability and Green Manufacturing, Social Responsibility in the Age of Industry 4.0, Global Adoption of Industry 4.0 and IoT

4. Text Books(s):

- T1. "Industry 4.0: The Industrial Internet of Things" by Alasdair Gilchrist, CRC Press, 2020.
- T2. "IoT Solutions in Microsoft's Azure IoT Suite: Data Acquisition and Analysis in the Real World" by Scott Klein and Manfred Helber, Apress, 2021..

5. Reference Book(s):

R1: "Industry 4.0: From Smart Factory to Smart Supply Chain" by Paul D. Smart and Robert Wilms, Springer, 2018.

R2: "Industry 4.0: An Introduction" by Henrik von Scheel, CreateSpace Independent Publishing Platform, 2019.

Latha



VALUE ADDED COURSE RESOURCE PERSON PROFILE



Faculty Name: Mr. Antim Dev Mishra

Qualification: Pursuing Ph.D, M.Tech in Electronics and Communication Engineering.

Designation: Assistant Professor

Specialization: ECE/CSE

Experience: 12 years of teaching and 5 years of Industry experience.

Publications: 16+ research papers in various Journals, National & International conferences.

Patent: 08 Patents Published in Indian Journal of patents, Government of India.

Special Assignments:

- University SPOC for Smart India Hackathon (SIH).
- Member of Incubation Cell, Sushant University
- SET Capstone Course Coordinator
- SET TCS LX Digital Learning Coordinator

Research Projects: Guided 25+ Engineering, Health Science and design school students' projects.

Research Interests: VLSI Design, IoT in Healthcare, Data Analytics, Machine Learning and Embedded Systems processing.

Antim