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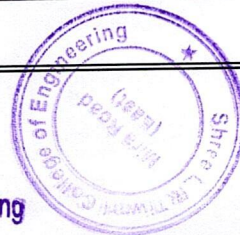
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Minority Status (Hindi Linguistic)

Curriculum for Add on /Certificate/Value added programs for last five years

Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
1	Structural and Architectural Aspects in Civil Engineering	2022 -2023
2	AWS Cloud	2022 -2023
6	Advanced Python for Mechanical Engineering	2022 -2023
7	Advanced Cybersecurity Malware Analysis	2022 -2023
8	Digital VLSI Design	2022-2023
9	Product Design and Development	2022-2023
10	5 G Communication	2022 -2023
11	Environmental Ethics	2022-2023
14	Game Asset Development using Blender	2022-2023
15	Machine Learning	2022-2023
16	Flutter	2022-2023
17	Fundamental and Application of Robotics Lab	2021-2022
18	AWS Cloud	2021-2022
19	Internet of Things	2021-2022

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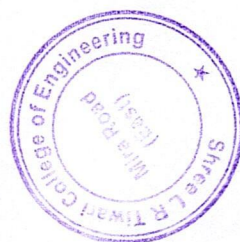Shree L R Tiwari College of Engineering
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Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
23	Add on course"Drone Technologies"	2021-2022
24	Python for Mechanical Engineering	2021 - 2022
25	A complete report writing workshop using LaTex software	2019-2020
26	Value education on Self Development	2019-2020
27	Personality Development: Self-Discovery Intensive	2019-2020
28	Solid Works and Ansys	2019-2020
29	Integrity Engineering: Nurturing Values in Technology	2019-2020
30	Essentials of Dharma: Mindful Decision-Making	2019-2020
31	Value Education for Mind Control: Brainpower Enhancement	2019-2020
32	Robotics	2018-2019
33	Ethics in engineering & value education :AURA	2018-2019
34	Dharma-A Life of Integration	2018-2019
35	Basic Programming Using Pytrhon	2018-2019
36	Ethics in engineering and value education	2018-2019
37	Human Rights	2018-2019
38	Environmental Impact Assesment	2018-2019

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Curriculum for Add on /Certificate/Value added programs for last five years

Sr. No	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Year of offering
39	Soft Skill Development	2018-2019
40	Internet of Things	2018-2019
41	Panchkosh	2018-2019
42	Value added education on mind control	2018-2019
43	Personality Development	2018-2019

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Academic Year 2019-2020

Department of Electronics and Telecommunications Engineering

Syllabus for Workshop on
"A complete report writing workshop using LaTex software"

Objectives: With the pandemic situation around learning should not get hampered, keeping this in mind department had planned the webinar for the students to get the hands-on training on report writing using Latex software. LaTeX comprises a collection of TeX macros and a program to process LaTeX documents, and because the plain TeX formatting commands are elementary, it provides authors with ready-made commands for formatting and layout requirements such as chapter headings, footnotes, cross-references and bibliographies.

Module Number	Module Name	Content	Duration In hours
1	Introduction to LaTeX	Overview of LaTeX and its advantages, Installation of LaTeX distribution , Basic understanding of TeX editors	2
2	Document Structure	Understanding LaTeX document classes, Creating sections, subsections, and chapters, Utilizing labels and cross-referencing.	4
3	Text Formatting	Exploring fonts and font styles, Managing text alignment and spacing., Incorporating lists and special characters	5
4	Mathematics Typesetting	Writing mathematical expressions using LaTeX, Introduction to math environments, Alignment and numbering in mathematical equations.	6
5	Graphics and Figures	Including graphics using the graphicx package, Positioning and scaling images, Generating plots and diagrams.	4
6	Tables and Lists	Creating tables with LaTeX, Formatting tables and adjusting column width, Generating lists with various styles.	3
7	Bibliographies and Citations	Managing bibliographic entries with BibTeX., Incorporating citations into documents, Formatting and customizing bibliographies.	4

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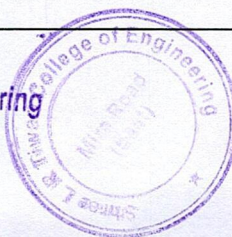
8	Advanced Topics	Customizing document layouts, Using packages for specialized formatting, Exploring advanced LaTeX features.	4
9	Collaborative Writing with Overleaf	Overview of online LaTeX editors, Collaborative writing and version control using Overleaf.	2

Course Outcomes: The students shall be able to
1. Create and structure documents using LaTeX.
2. Format text, including fonts, spacing, and alignment.
3. Typeset mathematical equations and expressions.
4. Include graphics, figures, tables, and lists in documents.
5. Manage bibliographies and citations effectively.
6. Explore advanced LaTeX features and customize document layouts.
7. Collaboratively write and edit LaTeX documents using online editors.

Ms. Aboli Moharil
HOD EXTC Department
SLRTCE

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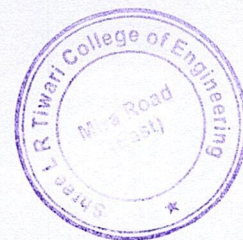
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Department of Information Technology
Value Added/ Bridge/ Add-on Course Report on "Value Education on Self-Development"

Syllabus

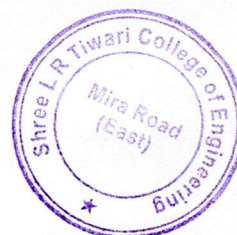**Course Name:** Value Education on Self-Development

Total Contact Hours: 30

The primary objective of this 30-hour Value Education course is to empower individuals with the knowledge, skills, and values necessary for personal growth and self-development. The course aims to instill a sense of purpose, resilience, and ethical decision-making in participants, fostering holistic development.

Course Objectives: The student shall be able

1. To learn the importance of goal-setting and establish individual objectives for the course.

2. To utilize self-assessment tools for a deeper understanding of personal strengths and areas for growth.

3. To enhance verbal and non-verbal communication skills

4. To introduce mindfulness techniques for stress reduction and increased focus.

Sr. No.	Module Name	Content	Duration In hours
1	Introduction to Self-Development	Course Overview, Setting Personal Goals	2
2	Self-Awareness and Emotional Intelligence	Self-Assessment Tools, concept of emotional intelligence, practical skills for enhancing emotional intelligence.	6

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Department of Information Technology
Value Added/ Bridge/ Add-on Course Report on "Value Education on Self-Development"

3	Communication and Interpersonal Skills	Effective Communication Skills, dynamics of healthy interpersonal relationships, conflicts in personal and professional settings	8
4	Mindfulness, Time Management, and Resilience	Techniques for stress reduction and increased focus,time management techniques, concept of resilience, strategies for overcoming challenges	7
5	Ethics, Values, and Future Planning	importance of ethical decision-making,personal values and their alignment with life choices, plan for the future and embrace lifelong learning	5
6	Conclusion and Reflection	Review key learnings, reflect on personal growth, and create an action plan for future development	2

Course Outcomes: The student shall be able to

1. articulate specific, measurable, achievable, relevant, and time-bound (SMART) goals.

2. identify and reflect on their strengths, weaknesses, and values.

3. practice active listening and effective communication techniques.

4. integrate mindfulness into their daily routines.
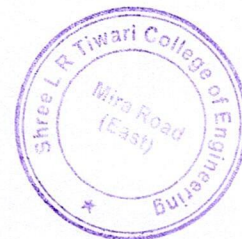
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Department of Mechanical Engineering
Value Added/ Bridge/ Add-on CourseReport on "Personality Development: Self-Discovery Intensive"

Syllabus

Course Name: Personality Development: Self-Discovery Intensive

Course Code: PD02

Total Contact Hours: 30

This course empowers students to enhance their personal and professional lives through self-discovery and skill development. The interactive and experiential nature of the course ensures that students not only gain theoretical knowledge but also practical insights that can be applied in their daily lives.

Course Objectives: The students shall be able to

1. Develop a deep understanding of personal strengths, weaknesses, values, and beliefs.
2. Develop skills for setting realistic goals and managing time efficiently.
3. Boost self-confidence and self-esteem through positive affirmations and constructive self-talk.
4. Equip participants with tools to identify and cope with stress in a healthy manner.

Sr. No.	Module Name	Content	Duration In hours
1	Introduction to Personality Development	Overview of the course, Importance of personality development, Ice-breaking activities	4
2	Self-Awareness	Understanding values and beliefs, Personality assessments, Reflection exercises	5

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Department of Mechanical Engineering
Value Added/ Bridge/ Add-on CourseReport on "Personality Development: Self-Discovery Intensive"

3.	Goal Setting and Time Management	SMART goals, Time management strategies, Action planning	4
4	Building Confidence and Self-Esteem	Positive affirmations and self-talk, Overcoming self-limiting beliefs, Confidence-building exercises	5
5	Stress Management	Identifying stressors, Stress management techniques, Relaxation exercises	4
6	Interpersonal Skills	Conflict resolution, Teamwork and collaboration, Networking skills	4
7	Mindfulness and Self-Care	Introduction to mindfulness, Self-care practices, Developing a personal self-care plan	4

Course Outcomes: The students shall be able to

1. identify and articulate their core values, strengths, and areas for improvement.
2. create a personalized goal-setting plan and demonstrate effective time management strategies.
3. demonstrate increased confidence and a positive self-image.
4. develop personalized stress management techniques and coping strategies.

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Bridge Course: SOLID WORKS AND ANSYS

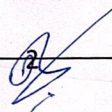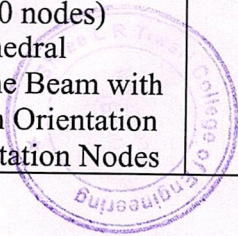| Course Code	Course Name: SOLID WORKS AND ANSYS	
SA01	Total Contact Hours :60	
	Lecture per week :1	
	Prerequisite: Knowledge about drawing and other mathematical tools	
Course Objective		
To train the students in the basics of a 3D modelling software called tapping creativity and imagination.		
Course outcome: Learner will be able		
1.	To develop model in the CAD software	
2.	To learn thermal, structural analysis in the model	

Sr. No.	Module	Detail Contents	Hours
1	Introduction to CAD, CAE, PDM	Features of SolidWorks, Various products available in SolidWorks for Product Design, Simulation, Communication Feature manager design tree, Callouts, Handles, Confirmation corner, mouse buttons, keyboard shortcuts, Command Manager, Hardware and Software requirements, SolidWorks Task Scheduler	4
2	Sketcher Part Design Assembly Design	Sketch Entities – Inference line, Centerline line, Line, Circle, Arc, Ellipse, Rectangle, Slots, Polygon, Parabola, Ellipse, Partial Ellipse, Spline, Spline tools, Spline on surface, Equation driven curve, Points, Text, Construction geometry, Snap, grid, Sketch Tools - Fillet, Chamfer, Offset, Convert entities, Intersection curve, Face curve, Trim, Extend, Split, Jog Line, Construction Geometry, Mirror, Dynamic Mirror, Move, Copy, Rotate, Scale, Stretch, Sketch pattern , Polygon, Make path, Close Sketch To Model, Sketch picture, Check Sketch for Feature, Area hatch/Fill	8
3	Assembly Design	Blocks – Make block, Edit block, Insert block, Add/Remove Entities, Rebuild, Save, Explode Relations - Adding Sketch Relation, Automatic relations, Dimensioning - Smart, Horizontal, Vertical, Ordinate, Horizontal ordinate, Vertical ordinate, Align ordinate, Fully define sketch. Sketch Diagnosis, SketchXpert, 3D Sketching, Rapid Sketch.	8
4	Drafting	Part Modeling Tools Creating reference planes Creating Extrude features – Direction1, Direction2, From option, Thin feature, Applying draft, Selecting contours Creating Revolve features – Selecting Axis, Thin features, Selecting contours Creating Swept features-Selecting, Profile and Path, Orientation/twist type, Path Alignment, Guide Curves, Start/End tangency, Thin feature	8
5	Generative Structural Analysis	Creating Loft features – Selecting Profiles, Guide curves, Start/End Constraints, Centerline parameters, Sketch tools, Close loft.	4

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		Selecting geometries – Selection Manager, Multiple Body concepts Creating Reference - points, axis, coordinates Creating curves -Split curve, Project curve, Composite curve, Curve through points, Helix and Spiral Creating Fillet features Inserting Hole types.	
6	Introduction To FEA And Ansys	Importance and necessity of Decision Making, Process and practical way of Decision Making, Weighing Positives & Negatives General Working of FEA Nodes, Elements, and Element Shapes General Procedure of Conducting Finite Element Analysis FEA through ANSYS Effective Utilization of FEA, FEA Software Advantages and Limitations of FEA Software, Solid Modeling and Direct Generation, Solid Modeling Methods, Bottom-up Construction, Top-down Construction Considerations before Creating a Model for Analysis Details Required Symmetry, Creating Geometric Entities, Creating Lines Creating Arcs, Creating B-Spines, Creating Fillets between Intersecting Lines, Creating Areas, Creating and Modifying **Work planes** Display Working Plane, Show WP Status, WP Settings Offset WP by Increments, Offset WP to Align WP with Coordinate Systems in ANSYS, Global Coordinate System Local Coordinate System, Active Coordinate System Display Coordinate System, Nodal Coordinate System Element Coordinate System, Results Coordinate System Creating New Coordinate Systems, Deleting Existing Coordinate	4
7	Finite Element Modeling (FEM) – I and II	An Overview of the Finite Element Modeling Element Attributes Element Types Reasons Why ANSYS has a Large Element Library Real Constants Material Properties Multiple Attributes Assigning Multiple Attributes before Meshing Assigning Default Attributes before Meshing Modifying Attributes after Meshing Verifying Assigned Attributes Element Attributes Table Finite Element Modeling (FEM) - II Mesh Generation Mesh Density Meshing the Solid Model Setting Element Attributes Defining the Mesh Defining the Entity to be Meshed Defining the Meshing Type Meshing the Model Refining the Mesh Locally Extruding the Mesh Transitional Pyramid Elements Requirements for Creating Pyramid Elements Creating Transitional Pyramid Elements (Hex-to-Tet Meshing) Converting Degenerate Tetrahedral (20 nodes) Elements into Non-degenerate (10 nodes) Tetrahedral Elements Plotting Pyramid Elements Meshing the Beam with Orientation Nodes Creating the Beam Mesh with Orientation Nodes Creating the Beam Mesh with Two Orientation Nodes	8

8	Solution And Postprocessor Static	Solution Defining the New Analysis Type Restarting the Analysis Setting Solution Controls Setting Analysis Options Solving the Analysis Problem Post processing the Result POST1 (General Postprocessor) POST26 (Time-history Postprocessor) Result Coordinate System (RSYS) Displaying the Deformed Shape of the Model Displaying the Minimum and Maximum Stresses Listing Reaction Forces Listing Stress Values at each Node Query Picking Path Operations Load Case Combination	8
9	Structural Analysis, Thermal Analysis Generating The Report Of Analysis	**Static Structural Analysis :**Effect of self-weight on a cantilever beam Analysis of a bicycle handle Analysis of a stud (pin) Analysis of a master **Thermal Analysis :**Thermal Analysis Important Terms Used in Thermal Analysis Heat Transfer Modes Thermal Gradient Thermal Flux Bulk Temperature Film Coefficient Emissivity Stefan–Boltzmann Constant Thermal Conductivity Specific Heat Types of Thermal Analysis Steady-State Thermal Analysis Transient Thermal Analysis Performing Steady-State Thermal Analysis Setting the Analysis Preference Creating or Importing a Solid Model Defining Element Attributes Meshing the Solid Model Specifying the Analysis Type, Analysis Options, and Applying Loads Solving the Analysis Problem Post processing Results Performing Transient Thermal Analysis Specifying the Analysis Type and Setting Solution Controls. **Generating The Report Of Analysis:** Starting the ANSYS Report Generator Capturing Images for the Report Capturing Animations for the Report Capturing Data Tables for the Report Capturing Lists for the Report Compiling the Report Changing the Default Settings of the ANSYS Report Generator Error Estimation in Solution Percentage Error in Energy Norm (SEPC) Element Energy Error (SERR) Element Stress Deviations (SDSG) Maximum and Minimum Stress Bounds (SMXB and SMNB)	8

REFERENCE

1. "Finite Element Simulations with ANSYS Workbench 15" by Huei-Huang Lee
2. "Solid works Simulation 2017 Black Book" by Gaurav Verma and Matt Weber
3. CAD: Automatisiertes Zeichnen, Darstellen und Konstruieren" by Rudolf Koller
4. "Introduction to PSpice Using OrCAD for Circuits and Electronics" by Muhammad H Rashid

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Department of Computer Engineering
Report on Value Education Programme "Integrity Engineering: Nurturing Values in Technology"

Syllabus

Course Name: Integrity Engineering: Nurturing Values in Technology

Course Code: ADC/VEP 01

Total Contact Hours: 30

This course explores the intersection of technology, ethics, and values, emphasizing the importance of integrity in engineering practice.

Course Objectives: The students shall be able to

1. Develop a solid understanding of fundamental ethical principles and their application in engineering.

2. Explore ways to integrate personal and professional values into day-to-day engineering tasks.

3. Develop ethical decision-making skills, considering the broader implications of engineering choices.

4. Encourage self-reflection on personal and professional values and their alignment with ethical standards.

Sr. No.	Module Name	Content	Duration In hours
1	Introduction to Ethics in Engineering	Overview of ethical principles, Historical perspectives on ethics in engineering	4
2	Social Responsibility in Engineering	The impact of engineering on society and the environment, Ethical considerations in technological advancements	5
3	Identifying and Analyzing Ethical Dilemmas	Case studies and group discussions, Ethical decision-making frameworks	4
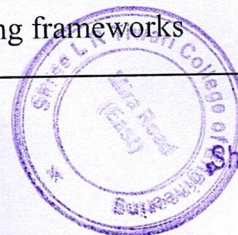
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Department of Computer Engineering
Report on Value Education Programme "Integrity Engineering: Nurturing Values in Technology"

4	Integrating Values into Engineering Practice	Personal and professional values exploration, Strategies for aligning values with engineering tasks	5
5	Building a Culture of Integrity	Promoting ethical behavior in the workplace, Leadership and ethics	4
6	Ethical Decision-Making Skills	Practical exercises in ethical decision-making, Role-playing scenarios	4
7	Self-Reflection on Values	Self-assessment, Personal development plans	4

Course Outcomes: The students shall be able to

1. Articulate key ethical principles relevant to engineering practice.
2. Integrate personal and professional values into engineering projects.
3. Navigate and resolve ethical dilemmas with confidence.
4. Make informed and ethically sound decisions in their professional roles.

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Department of Mechanical Engineering
Value Added/ Bridge/ Add-on CourseReport on
"Essentials of Dharma: Mindful Decision-Making"

Syllabus

Course Name: Essentials of Dharma: Mindful Decision-Making

Total Contact Hours: 30

Essentials of Dharma: Mindful Decision-Making was conducted by the department of Mechanical Engineering to empower individuals to make ethical and purposeful decisions in both personal and professional spheres with a comprehensive understanding of the principles of Dharma and how they can be integrated into the decision-making process.

Course Objectives: The students shall be able to

1. Define the concept of Dharma and its historical and cultural significance.
2. Cultivate mindfulness and self-awareness for more conscious decision-making.
3. Identify the principles of Dharma that can guide ethical decision-making.
4. Learn strategies for balancing personal, professional, and societal responsibilities.

Sr. No.	Module Name	Content	Duration In hours
1	Introduction to Dharma and Mindful Awareness	Defining Dharma, Philosophical Foundations of Dharma, Cultivating Mindful Awareness,Mindful Decision-Making	6
2	Principles of Dharma in Decision-Making	Dharma Principles, Applying Dharma in Decision-Making, Group Activity: Dharma in Action,	6
3	Balancing Responsibilities and Ethical Choices	Balancing Personal, Professional, and Societal Responsibilities, Ethical Decision-Making Theories, Dharma and Ethics in Daily Life	6

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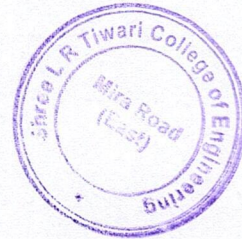Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Department of Mechanical Engineering
Value Added/ Bridge/ Add-on CourseReport on
"Essentials of Dharma: Mindful Decision-Making"

4	Holistic Well-being and Effective Communication	Mind-Body-Spirit Connection, Effective Communication Aligned with Dharma, Conflict Resolution Techniques	6
5	Time Management, Resilience, and Leadership	Time Management Techniques Aligned with Dharma, Building Resilience, Leadership with Dharma Principles	6

Course Outcomes: The students shall be able to

1. Define Dharma and explain its significance in various cultural and historical contexts.

2. Demonstrate mindful awareness and self-reflection in decision-making processes.

3. Integrate Dharma principles into ethical decision-making scenarios.

4. Balance personal, professional, and societal responsibilities in alignment with Dharma.

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Department of Electronics and Telecommunications Engineering
Syllabus for Value Added Course
On
"Value Education for Mind Control: Brain Power Enhancement"

This course is a systematic course designed to inculcate ethics and moral values in professionals along with technical skills. The duration of the course is 30 hours.

Course Objectives: The student shall be able to
1. Understand the fundamentals of cognitive processes.
2. Learn effective communication strategies.
3. Practice mindfulness and meditation for stress reduction.
4. Identify and overcome limiting beliefs.

Module Number	Module Name	Content	Duration In hours
1	Introduction to Values and Cognitive Enhancement	Understanding the role of values in personal development, Exploring the ethical dimensions of cognitive enhancement, Introduction to brainpower enhancement techniques.	6
2	Mindful Awareness and Cognitive Well-being	Principles of mindfulness and its impact on cognitive functions, Mindfulness techniques for improved focus and clarity, Practical exercises for cultivating mindful awareness.	6
3	Cognitive Enhancement Strategies	Memory improvement techniques and exercises. Cognitive training methods for enhanced problem-solving, Application of brainpower enhancement in daily life.	6
4	Values-Based Decision-Making	Understanding the influence of values on decision-making, Ethical decision-making frameworks, Case studies and practical applications.	6
5	Personal Growth and Well-being	Aligning personal values with goals for holistic development, Strategies for maintaining cognitive health, Creating a personal development plan.	6

Course Outcomes: The student shall be able to
1. Demonstrate an understanding of the relationship between values and cognitive enhancement.
2. Apply mindfulness techniques for improved focus and cognitive well-being.
3. Implement brain power enhancement exercises for cognitive agility.
4. Integrate values into ethical decision-making processes.

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Ms. Namrata Kulkarni