



Nutan Maharashtra Vidya Prasarak Mandal's

NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING
AND TECHNOLOGY



Under Administrative Support-Pimpri Chinchwad Education Trust

Approved by AICTE

Accredited by NAAC

Affiliated to SPPU

"Samarth Vidya Sankul", Vishnupuri, Talegaon Dabhade, Taluka Maval, District Pune - 410507

Tel. No. 02114 - 231666

E-mail: nmietalegaon@gmail.com

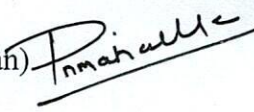

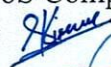


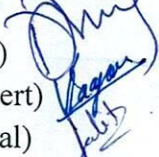

Web: www.nmiet.edu.in

Request Letter for Approval of Add-on-Course Content

Date:18-12-2018

Subject: Approval of content for Add-On Course

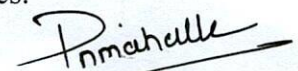
Members for approval:

1. Dr. Parikshit Mahalle (Dean R & D, VIIT) (Chairmah) 
2. Dr. Sachin Babar (BoS Comp., SPPU) 
3. Ms. Shraddha Kirve 
4. Mr. Nitin Wankhade 
5. Mr. Nitin Dhawas (Head of Dept.) 
6. Mr. Sagar Vairagar (Industry Expert) 
7. Dr. LalitKumar Wadhwa (Principal) 

We had detail discussion on the syllabus, evaluation scheme and teaching methodology for following value added/ certificate courses (2019 pattern).

Sr. No.	Name of Course	Duration
1	Java Business Application	35hrs
2	Cloud Computing using AWS	40hrs
3	Cyber Security	40hrs
4	Advanced Excel	35hrs
5	Devops	40hrs
6	Industrial Soft Skill Training	40hrs
7	Data Analytics Using PowerBi	40hrs

It is recommended to implement the above-mentioned courses.


Chairman
BoS

CC:

Principal


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Governance Body

Date: 18-12-2018

Extract of Minutes of Meeting of Governing Body dated 09-02-2019.

Resolution No.:07

It resolved to approve the minutes of meeting of BoS dated 18-12-2018 for implementation.



Dr. Lalitkumar Wadhwa
Member Secretary

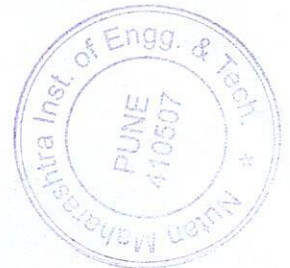

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Devops Content


Topic
Cloud & Virtualization
Docker, Kubernetes, Micro-services
Flask, HPC Applications on Cloud, DevOps, CI/CD
DevOps using AWS, Intro to Git
Github Deep Dive, Scenario based cases.


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Soft Skill Training Content

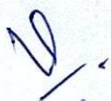
Topic
Module 1: Introduction to Soft Skills Module 2: Communication Skills
Module 3: Emotional Intelligence Module 4: Leadership and Teamwork
Module 5: Time Management and Organization
Module 6: Adaptability and Resilience
Module 7: Creativity and Innovation
Module 8: Presentation Skills
Module 9: Networking and Relationship Building
Module 10: Conflict Resolution and Negotiation
Module 12: Self-Reflection and Continuous Improvement
Module 13: Final Assessment and Reflection


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PowerBi Content

Topic
Introduction
Power BI Basics: Introduction to the PowerBI interface, data sources
Simple report creation
Data Transformation: Explaining PowerQuery
Data cleaning and Data modeling.
DAX (Data Analysis Expressions): In-depth coverage of DAX formulas and functions.
Data Visualization: Creating compelling and interactive visualizations in Power BI.
Advanced Topics: Custom visuals, PowerBI templates, and more.
Power BI Service: Sharing and collaboration features.
Use Cases and Case Studies
Assessment


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SCHEDULE

-----Day-1-8hrs-----

Module 1- Fundamentals of Cloud Computing

- Introduction of Cloud Computing
- Key characteristics of Cloud Computing
- Cloud Analogy
- Cloud Computing Service, Deployment Models
- Comparison between Cloud and Legacy IT systems
- Advantages of Cloud Computing

Module 2- AWS Cloud Overview

- Introduction & History of AWS Cloud
- Global Infrastructure of AWS
- AWS Service scope in this course
- AWS Global vs. Regional Services
- Overview on Billing and Pricing

Module 3- AWS Free Tier Account

- Introduction
- AWS Free Tier Account Creation
- Basic account Setting & Management
- Setting up Billing Alarm & Budget
- Activate MFA on Root Account

-----Day-2-8hrs-----

Module 4 -AWS Beanstalk: Amazon PaaS service

- Understanding Beanstalk
- Benefits of Beanstalk
- Configuration of Beanstalk service
- Use Cases & Pricing

Module 5 –AWS IAM: Security, Authentication & Managing Users and Groups

- Introduction to Identity & Access Management
- Components of IAM
- Creating and Managing Users, Groups and IAM policies
- Roles and its use cases
- Multi-Factor Authentication - [MFA]
- Security Features in IAM
- Best Practices of IAM
- Use Cases and Pricing

Module 6 – AWS S3: Storage System

- Introduction to Simple Storage Service - S3
- Components of S3
- Important Properties of S3 Bucket
- Enabling and Managing Versioning on S3 bucket
- Creating Life-Cycle Management Rule S3
- Hosting a static-website in S3
- Transfer Accelerator in S3
- MFA and Pre-signed URL in S3



- Security feature of S3- Encryption, Bucket Policy, and Permissions
- Snow devices - Types & Use Cases
- Use Cases and Pricing

-----**Day-3-8hrs**-----

Module 7 – AWS EC2: Amazon Virtual Servers and its features

- Introduction to Elastic Cloud Compute - EC2
- Use cases and important features of EC2
- Amazon Machine Images (AMI) and its Uses
- Configuring EC2 Instance and its types
- Security Groups - Creation & Management
- Key Pairs - Why & How
- Launching & Connecting to Linux Instance
- Setting up a web server on Linux Instance - Hosting a website
- Elastic IP Address, Placement Group
- Use Case and Pricing

Module 8 –AWS Load Balancers and Auto Scaling Configuration

- Types of Load Balancer in AWS
- Important Components of Load Balancer
- How Health-Check Works for Load Balancer
- Configuration of a load balancer and its management
- Understanding Launch Configuration and AutoScaling Group
- Configuration of Autoscaling group
- Use cases and Pricing

-----**Day-4-8hrs**-----

Module 9 -AWS RDS: Amazon Relational Database Service

- Introduction to RDS
- DB engines provided by RDS
- Snapshots and Back-up in RDS
- Read Replicas in RDS
- Creating and connecting to a RDS database
- RDS Security Groups
- Pricing

Module 10 –AWS Route53: Understanding and Configuring DNS service

- Introduction to Route53
- Health Checks in Route53
- Routing Policies in Route53
- Records Sets supported by Route53
- Pricing - Route53

-----**Day-5-8hrs**-----

Module 11 -AWS CloudWatch: AWS Monitoring service

- Important Components of CloudWatch
- Creating and Managing metrics in CloudWatch
- Creating and managing Events in CloudWatch
- Creating and Managing Dashboards in CloudWatch
- Creating and managing Alarms in CloudWatch
- Logs and Log agent in CloudWatch
- Use Cases and Pricing


Module 12 – AWSCLI: Amazon command line Interface

- Setting-Up AWS CLI on local machine
- Creating Users and groups using AWS CLI
- Creating & Managing IAM Roles & Policy using AWS CLI
- AWS CLI Command Syntax walkthrough



Cyber Security Content


Topic
Introduction and Computer Security- I
Computer Security - I
Network Security I, Network Security II and Email Security
Website Security I, Website Security II
Cyber Law, Mobile Security & Cloud Security


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Advanced Excel Content

Topic
Pivot tables: <ul style="list-style-type: none"> • Creation of Pivot table • Calculated Field in pivot table • Comparative analysis in Pivot table • Using grouping and ungrouping in pivot tables. • Pivot chart • Difference between regular and pivot chart
Solver function: Scenarios: Data table:
Data Management: Sorting, Filtering Data, Data Subtotaling, Grouping & outlining data
Data Validation, Consolidation, Formatting & Conditional formatting
Lookup Functions, Mathematical Functions, Text Functions
Database Functions, Date & Time Functions, Financial Functions
Isblank, Iserr, Iserror, Islogical, Iseven, Isodd, ISNA functions, general functions, macros basics
Naming range, referencing, Formulas auditing
Fill series, Security of Workbook & Worksheet
Analyzing Data with the Analysis ToolPak, Assessment


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JAVA Content

-----DAY-1-7hrs-----

1. Overview of Library Management System
 - Web application.
 - To create a basic inventory system.
 - Library Management System
 - Example of a Library Management system.
 - Need of Library Management System
2. Creating a Java web project
 - Developing a simple web project
 - Deployment descriptor
 - Web content folder
 - web.xml
 - HTML Page
 - Run the application

-----DAY-2-7hrs-----

3. Java servlets and JSPs
 - Definition of web server
 - Definition of web container
 - Creating a servlet
 - Running the servlet
 - Including HTML inside Java code
 - Running the Project again
 - Difference between Servlets and JSPs
 - Creating a JSP

-----DAY-3-7hrs-----

4. Servlet Methods
 - Creating the home page of Library Management System
 - Go to index.jsp
 - Modify the index.jsp by creating a form
 - Create GreetingServlet.java
 - Servlet as a controller
 - Inside the doGet method retrieve the form data parameters
 - Run the project and see the output
 - Repeat the same for doPost method
 - Difference between doGet and doPost methods

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-----DAY-4-7hrs-----

5. Database and validation

- Create database library
- Create table users
- Load JDBC Driver
- Run the project
- Login and show successGreeting page
- Explain GreetingServlet.java
- Explain getParameter method
- Explain code for JDBC connection
- To redirect to successGreeting.jsp use RequestDispatcher
- Similarly explain how to print error messages on index.jsp
- Explain about scriptlet in index.jsp
- What is Model
- Explain the User Model
- Register as a new user
- Explain about successUser Page
- Explain AddUserServlet.java
- Explain different errors possible while filling the form


-----DAY-5-7hrs-----

6. Creating and viewing inventories

- Modify the login page to redirect to admin page
- Create Book and Checkout model Modifying GreetingServlet.java Creating #*AdminSection.java Create listBooks.jsp Fetch all the book details
- Create listBorrowedBooks.jsp Fetch borrowed book details
- To display the books borrowed by logged in user

7. Issuing and returning a book

- Adding more functionalities to the Admin Section Page
- Listing all the users
- Checkout/Return a book
- Modifications in the corresponding servlets
- Interface for checkout and return
- Creating CheckoutServlet.java


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Request Letter for Approval of Add-on-Course Content

Date:18-12-2018

Subject: Approval of content for Add-On Course

Members for approval:

1. Dr. Dattatraya Bormane (BOS Chairman, SPPU)
2. Dr. D. D. Chaudhary (Principal, SIT Lonavala)
3. Mr. Sagar Joshi
4. Mrs. Nutan Patil
5. Mrs. Neeta Karhadkar (Head of Dept.)
6. Mr. Ganesh Mandale (Industry Expert)
7. Dr. LalitKumar Wadhwa (Principal)

We had detail discussion on the syllabus, evaluation scheme and teaching methodology for following value added/ certificate courses (2019 pattern).

Sr. No.	Name of Course	Duration
1	Preplacement Training Program	50 hrs
2	Embedded System Design	40 hrs
3	Fundamentals of C and C++	40 hrs
4	Recent Application Oriented Microcontroller like Arduino , Raspberry Pi	35 hrs
5	Open source software like Scilab	35 hrs
6	Java Programming	40 hrs
7	Cyber Security	30 hrs

It is recommended to implement the above-mentioned courses.

CC:

Principal

PRINCIPAL

Nutan Maharashtra Inst. of Engg. & Tech.
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Chairman
BoS



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Request Letter for Approval of Add-on-Course Content

Date: 25-01-2019

Subject: Approval of content for Add-On Course

Members for approval:

1. Dr. Harish Tiwari (Principal PCCOER) (Chairman) *H Tiwari*
2. Mr. Santosh Dabhole *S Dabhole*
3. Mr. Rohit Jadhao *R Jadhao*
4. Mr. Manojkumar Kate (Head of Dept.) *Manojkumar Kate*
5. Mr. Dhanaji Jadhav (NCER Mechanical Dept.) *D Jadhav*
6. Mr. Pravin Jadhav (Industry Expert) *P Jadhav*
7. Dr. LalitKumar Wadhwa (Principal) *Lalit*

We had detail discussion on the syllabus, evaluation scheme and teaching methodology for following value added/ certificate courses (2019 pattern).

Sr. No.	Name of Course	Duration
1	Soft Skill Training Session for Placement Activities	120 Hrs
2	Modern Tool Software's using Open Source Software	30+ Hrs
3	Programming Languages Hand on Sessions	30+ Hrs
4	Modern Tool Software's Hand on Sessions	30+ Hrs
5	Latex Sessions	30+ Hrs

It is recommended to implement the above-mentioned courses.

CC:

Principal

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H Tiwari
Chairman

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2. Dr. Sachin Babar (BoS Comp., SPPU) *S. Babar*
3. Dr. RG Biradar (Principal) *R. Biradar*
4. ~~Dr.~~ Anand Daulatabad *A. Daulatabad*
5. Mr. Shekhar Rahane (Head of Dept.) *S. Rahane*
6. Mr. Sagar Vairagar (Industry Expert) *S. Vairagar*
7. Dr. LalitKumar Wadhwa (Principal) *L. Wadhwa*

We had detail discussion on the syllabus, evaluation scheme and teaching methodology for following value added/ certificate courses (2019 pattern).

Sr. No.	Name of Course	Duration
1	The Communication Skill & Personality Development Training	35hrs
2	The Spoken Tutorial Project, IIT Bombay (Module 1)	40hrs
3	The Spoken Tutorial Project, IIT Bombay (Module 2)	40hrs
4	Project Based Learning (PBL) training	35hrs
5	Aptitude Training	40hrs

It is recommended to implement the above-mentioned courses.

P. Mahalle
Chairman
BoS

CC:

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P. Mahalle
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