



M.O.P. VAISHNAV COLLEGE FOR WOMEN (AUTONOMOUS)
DIPLOMA AND CERTIFICATE PROGRAMS

PROGRAM OUTCOMES

1. Exhibit market driven employability skills
2. Demonstrate inter disciplinary capabilities to build a successful career in niche areas

PROGRAM NAME: DIPLOMA IN COMPUTER APPLICATIONS

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO 1	Develop an understanding of Microsoft publisher environment and publication window
PSO 2	Comprehend the usage of Accounting and Publishing software
PSO 3	Build competencies in application of Database Management
PSO 4	Apply knowledge of ethical hacking and the legal provisions on its prevention

COURSE OUTCOMES (CO)

Course Component	Course	Course Outcomes
Core	Publishing Software	CO 1: Gain an overview of the Microsoft Publisher environment and develop a publication CO 2: Demonstrate ability to navigate with publisher windows, menus commands and modify layout and structure of a publication CO 3: Apply format Graphics techniques in a publication CO 4: Comprehend layering and formatting objects in a picture CO 5: Calculate page layout dimensions using rulers and guides to arrange objects
Core	Database Management and Analysis Using Spreadsheets	CO 1: Gain knowledge of working on worksheets including referencing, linking and application of Basic functions and short cut features CO 2: Conduct math and Statistical functions and formula evaluations and auditing CO 3: Understand and apply Data validation, sorting tables applying filters to data and encryption of workbooks CO 4: Construct Charts using 3D graphics, generate trend lines and curves used for prediction CO 5: Formulate Reports and Pivot tables, custom formats and record macros

Core	Web Programming	<p>CO 1: Understand the basics HTML, tags, linking documents and style sheet</p> <p>CO 2: Recognize and apply Java script Syntax, array and functions</p> <p>CO 3: Develop Java Script Document Object Model</p> <p>CO 4: Gain knowledge of ASP.Net Language structure, page structure, HTML server controls and Data Repeater</p> <p>CO 5: Have an overview of Validator Controls, Data Grid Controls and Error Issues and handling</p>
Core	Big Data Analysis	<p>CO 1: Gain knowledge of Big data Platform, modern analytics tools and Hadoop ecosystems components</p> <p>CO 2: Explore HDLCs concepts, develop map reduce applications and examine sample map reduce programs using API concepts</p> <p>CO 3: Apply Pig commands and operators and Hive architecture, features and user defined functions</p> <p>CO 4: Interpret basics of R and R studio and write data using CSV and Excel files using string and data operations in R</p> <p>CO 5: Demonstrate application of analysis techniques of Central tendency, dispersion, t – test, Chi square, regression, clustering and sensitivity analysis</p>
Core	Software Testing	<p>CO 1: Have an overview of testing in software development life cycle and design of test cases</p> <p>CO 2: Explain the role of QTP fundamentals, record and replay of tests</p> <p>CO 3: Gain an overview of parameterization and synchronization</p> <p>CO 4: Understand the application of checkpoints and recovery scenario manager</p> <p>CO 5: Develop Web and Database Application testing</p>
Core	Ethical Hacking	<p>CO 1:Recognize types, effects and effects of data threats, malwares and protection against malwares and security in organizations</p> <p>CO 2: Understand web tools for foot printing, Trojans, worms, backdoors, social engineering and piggybacking</p> <p>CO 3: Evaluate Physical security, attack and protection measures, cryptography and hacking of Linux and windows</p> <p>CO 4: Gain an overview of Firewall, web filtering, session hijacking, SQL injection, buffer overflow and hacking of mobiles and Bluetooth</p> <p>CO 5: Apply legal provisions relating to ethical hacking, hijacking and penetration testing</p>

PROGRAM NAME: DIPLOMA IN MULTIMEDIA

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO 1	Build 3 D Model and create linear templates
PSO 2	Demonstrate skills in creating cartoon, interior and exterior modelling
PSO 3	Exhibit understanding of character and non – linear animation techniques
PSO 4	Apply knowledge of mapping, shading in imaging using adobe and other photoshop tools and techniques

COURSE OUTCOMES (CO)

Course Component	Course	Course Outcomes
Core	Introduction to Maya 3 D	<p>CO 1: Recognize basics of Maya 3 D Interface, UI, menus and icons</p> <p>CO 2: Understand Channel box, Attribute Editor and objects in 3D space.</p> <p>CO 3: Gain an overview of Poly editing tool and Polygonal Modelling</p> <p>CO 4: Explain modelling with NURBS and combining techniques and surface history</p> <p>CO 5: Develop 3D models of objects.</p>
Core	3 D Character Modelling and Set Modelling	<p>CO 1: Discuss anatomy character mesh flow and shape detailing techniques</p> <p>CO 2: Detail work flow on Polygon tools and split tools</p> <p>CO 3: Design character modelling of Living and Non – living things</p> <p>CO 4: Develop interior modelling of spaces and rooms</p> <p>CO 5: Prepare exterior models of houses, buildings, parks, bus stands and the likes</p>
Core	Art of Shading (Adobe Photoshop) and Lighting	<p>CO 1: Map environments and characters using UV mapping techniques</p> <p>CO 2: Gain understanding of texture painting and custom Photoshop tools</p> <p>CO 3: Classify and summarize maps, lighting, shadows and Mental Ray Occlusion Override</p> <p>CO 4: Recognize the 6 types of light sources and their control techniques</p> <p>CO 5: Comprehend the nuances in the usage of lighting systems and exposure control</p>
Core	Rigging and Animation	<p>CO 1: Gain basic knowledge of Animation</p> <p>CO 2: Analyse usage of editing keys using Graph Editor</p> <p>CO 3: Demonstrate the ability to apply forward and inverse Kinematics</p> <p>CO 4: Prepare character animation through animation processes</p> <p>CO 5: Formulate non – linear animation using Maya’s new body IK setup</p>

<p style="text-align: center;">Core</p>	<p style="text-align: center;">3D Camera and Rendering</p>	<p>CO 1: Demonstrate ability in configuring and aiming cameras</p> <p>CO 2: Apply functions of camera motion Blur and Depth of field features and environment and settings</p> <p>CO 3: Explain introduction to scene and prepare scene for render</p> <p>CO 4: Understand different Render Engines with rendering settings</p> <p>CO 5: Develop Final Render by understanding output with different formats</p>
<p style="text-align: center;">Core</p>	<p style="text-align: center;">Editing (Adobe Premiere) and Project Creation – 3D Short Film</p>	<p>CO 1: Gain knowledge of video editing tools using Adobe Premiere tools</p> <p>CO 2: Develop videos using timeline editing, program monitor and trimming techniques</p> <p>CO 3: Apply sound processing and effects to entire sound files and stereo files</p> <p>CO 4: Construct movie using movie settings and save file as premiere project.</p> <p>CO 5: Prepare a short film using 3D techniques</p>

PROGRAM NAME: DIPLOMA IN FASHION DESIGN

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO 1	Build Fashion Sensibilities through conceptual learning
PSO 2	Demonstrate skills in Garment Construction and Styling
PSO 3	Exhibit understanding of techniques in Surface Ornamentation and Textile Designing
PSO 4	Apply knowledge of Integration of Fashion using Computer Applications

COURSE OUTCOMES (CO)

Course Component	Course	Course Outcomes
Core	Fashion Design Concepts	<p>CO 1: Understand basics of fashion cycles and fashion designing</p> <p>CO 2: Gain knowledge of Design Structures, colour harmony and its application in the apparel market</p> <p>CO 3: Recognize the principles of design, its characteristics, rhythm and harmony</p> <p>CO 4: Design Apparels' neckline, waistlines, hemlines, collar, sleeves, frills and gatherings</p> <p>CO 5: Develop wardrobe planning for formal, casual, sports and party wear for all genders.</p>
Core	Fashion Illustration	<p>CO 1: Understand the basics of different head theories and application of 10 head theories in Illustrations.</p> <p>CO 2: Identify the different fabric drapes and variety of sketches</p> <p>CO 3: Design flat sketches for children in party wear, casual wear, beach wear, night wear and ballroom gowns</p> <p>CO 4: Prepare Flat sketches for men adopting head theories in casual, party beach and sportswear</p> <p>CO 5: Illustrate garment views for women showcasing photographic poses and creation of a portfolio</p>
Core	Styling	<p>CO 1: Define styling and aid in styling research</p> <p>CO 2: Interpret colour analysis, body types, face shapes and develop professional fashion vocabulary</p> <p>CO 3: Gain understanding of fashion trends, fashion forecasting through a timeline analysis</p> <p>CO 4: Apply golden mean ration, principles of scientific measurement and study art of camouflaging defect</p> <p>CO 5: Evaluate the concepts of merchandising</p>
Core	Garment Construction and Fashion Management	<p>CO 1: Analyse elements and functions of clothing through breakdown of Garment Flow process by case study methods</p> <p>CO 2: Design basic patterns and grading through computer aided pattern making for development of fashionable garments</p>

		<p>CO 3: Demonstrate the ability to draft and cut patterns for all garment types and checking fit of garments by eliminating causes for poor fit</p> <p>CO 4: Identify basic garment sewing machine parts and gain in depth knowledge of its mechanisms</p> <p>CO 5: Formulate quality parameters and apply the sewing, threading, lining, zipping and fastening techniques</p>
Core	<p>Techniques and Surface Ornamentation of Textile and Designing</p>	<p>CO 1: Demonstrate the use of special attachments to sewing machines for Embroidery and surface ornamentation</p> <p>CO 2: Perform various hand Embroidery stitches, knots, Crocheting, knitting and tatting designs</p> <p>CO 3: Design and produce fabric appliqués, sequins, cut work, thread work, mirror work on children and women's apparel</p> <p>CO 4: Apply various print design techniques including block, tie and dye, batik, fabric painting, stencil preparation and other techniques in manufacture of garments</p> <p>CO 5: Explain machine embroidery stitches using SNLS and computerized embroidery machines in cording, boring and Chenille works</p>
Core	<p>Computer Applications in fashion Designing</p>	<p>CO 1: Gain knowledge of image editing tools, brushes, patterns and textures using gradients</p> <p>CO 2: Design for print media working with vector and marquee text, colour correction and separation techniques</p> <p>CO 3: Apply digital drawing in designing logos, sign boards, design mood boards and story boards</p> <p>CO 4: Construct syllabus for illustrator and design palettes menus and tool types</p> <p>CO 5: Formulate multiple art boards and work with drawing essentials to create flat sketches</p>

PROGRAM NAME: DIPLOMA IN OFFICE MANAGEMENT

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO 1	Develop an understanding of basic computing skills
PSO 2	Comprehend the usage of Accounting and Publishing software
PSO 3	Build competencies in application of Database Management
PSO 4	Apply knowledge of working in Automated Office Environment

COURSE OUTCOMES (CO)

Course Component	Course	Course Outcomes
Core	Basic Computing Skills	<p>CO 1: Gain basic knowledge of Windows \operating System</p> <p>CO 2: Prepare M S Word 2010 Documents</p> <p>CO 3: Gain knowledge on application of M S Excel through Hands on training</p> <p>CO 4: Prepare M S PowerPoint Presentations and Train on Internet deployment</p> <p>CO 5: Develop Business Correspondence skills in the Computerized Platform</p>
Core	Accounting Software	<p>CO 1: Prepare all Accounting Reports using Tally Accounting Software and understand the Inventory Management System</p> <p>CO 2: Gain knowledge on using Multi window Ledger operations and the details of the Vouching System</p> <p>CO 3: Design Software for Single and Multi Stock Groups</p> <p>CO 4: Prepare software for creating Godowns and altering multiple Godowns</p> <p>CO 5: Interpret the Financial Statements using the Analytical tools</p>
Core	Work Psychology	<p>CO 1:Recognize and apply the need and importance of work psychology and diversity in workplace</p> <p>CO 2: Understand cognitive and psychomotor abilities and emotional intelligence as a competency</p> <p>CO 3: Evaluate cognitive, situational judgement, individual assessment testing abilities</p> <p>CO 4: Gain an overview of approaches to Organizational Justice, job satisfaction, work life balance and psychological contracts</p> <p>CO 5: Apply positive communication, high quality working relationships in organization life and develop strategies for creation of positive and meaningful workplace.</p>
Core	Automated Office Management	<p>CO 1: Have an overview of the purpose, role and importance of traditional and e – offices</p> <p>CO 2: Explain the functions, role qualities and importance of a manger</p> <p>CO 3: Gain an overview of Office documentation, manuals and charts</p>

		<p>CO 4: Understand the uses of various office automation equipments and integrate their use in E- Governance through web portals</p> <p>CO 5: Develop Forms Management skills, understand mail anatomy and video conferencing through web browsers</p>
Core	Publishing Software	<p>CO 1: Gain an overview of the Microsoft Publisher environment and develop a publication</p> <p>CO 2: Demonstrate ability to navigate with publisher windows, menus commands and modify layout and structure of a publication</p> <p>CO 3: Apply format Graphics techniques in a publication</p> <p>CO 4: Comprehend layering and formatting objects in a picture</p> <p>CO 5: Calculate page layout dimensions using rulers and guides to arrange objects</p>
Core	Database Management and Analysis Using Spreadsheets	<p>CO 1: Gain knowledge of working on worksheets including referencing, linking and application of Basic functions and short cut features</p> <p>CO 2: Conduct math and Statistical functions and formula evaluations and auditing</p> <p>CO 3: Understand and apply Data validation, sorting tables applying filters to data and encryption of workbooks</p> <p>CO 4: Construct Charts using 3D graphics, generate trend lines and curves used for prediction</p> <p>CO 5: Formulate Reports and Pivot tables, custom formats and record macros</p>

**PROGRAM NAME: CERTIFICATE PROGRAM IN GOODS AND SERVICE TAX
AND INTERNATIONAL TAXATION**

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO 1	Understanding computation of Goods and Service tax liability
PSO 2	Exhibit higher level of capability in comprehension of cloud accounting and filing of returns
PSO 3	Gain knowledge of the U S Federal tax system
PSO 4	Apply knowledge of International taxation in exploring career opportunities

COURSE OUTCOMES (CO)

Course Component	Course	Course Outcomes
Core	Goods and Service Tax - 1	<p>CO 1: Gain knowledge of time and value of supply, input tax credit, filing of GST returns, GST audit and appeals</p> <p>CO 2: Understand Compliance, administrative and Control systems applicable to manufacturers and exporters</p> <p>CO 3: Demonstrate GST registration process and method of generating GST identification number to facilitate collection of tax</p> <p>CO 4: Explain the electronic payment process through net banking, RTGS, NEFT debit and credit cards</p> <p>CO 5: Prepare GST returns with respect to Outward supplies, Inward supplies, monthly summary returns and returns for composite scheme suppliers</p>
Core	Goods and Service Tax - 2	<p>CO 1: Prepare financial records in cloud accounting for GST and understand tracking and accountant section data</p> <p>CO 2: Develop brand building and formulate customization, automation and integrated book keeping applications</p> <p>CO 3: Design accounting software for company creation and gain understanding of GST percentage fixation</p> <p>CO 4: Prepare journal and passing entries for Intra state services</p> <p>CO 5: Explain passing entries, tax payment entries and sale entries for Goods and Services in Inter State sale of Goods</p>
Core	International Taxation -1	<p>CO 1: Gain knowledge on US federal tax system and GAAP</p> <p>CO 2: Understand authoritative hierarchy, commutations with clients and accounting methods with tax election types</p> <p>CO 3: Apply concepts related to Individual Taxation under various heads of income, its computation and exemption benefits</p> <p>CO 4: Apply provisions for computation of Alternate minimum Tax to Indian and Foreign Nationals in tax calculations and filling forms</p> <p>CO 5: Explain various property transactions and compute property tax</p>

Core	International Taxation - 2	CO 1: Have an overview of accounting transactions with respect to a partnership firm CO 2: Explain termination simulations, liability treatment and tax computations CO 3: Gain an overview of entity transactions, distribution and consolidation of tax for corporations CO 4: Calculate income, built in gains and tax for Statutory corporations CO 5: Apply provisions for calculation of income of trusts, estates and evaluate unrelated business income
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PROGRAM NAME: CERTIFICATE PROGRAM IN GERMAN

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO 1	Understand German as a Foreign language
PSO 2	Exhibit higher level of capability in comprehension of German grammar components usage
PSO 3	Comprehend the nuances of the language through study of Germany, its land and culture
PSO 4	Establish the inter linguist connect between German and Sanskrit

COURSE OUTCOMES (CO)

Course Component	Course	Course Outcomes
Core	German A1 Level	CO 1: Gain knowledge of definite and indefinite articles and personal pronouns of the subject CO 2: Understand definite and indefinite articles and pronouns of the Object CO 3: Demonstrate usage of regular, irregular, modal, separable and inseparable verbs CO 4: Explain usage of nouns, alphabets, health, hobbies, vacation and work CO 5: Develop the W questions, prepositions and adjectives in sentences
Core	German A2 Level	CO 1: Explain the usage of Reflexive verbs CO 2: Understand adjective endings and comparison to adjectives CO 3: Design Anschlusse – connectors for usage of various types of German Conjunctions CO 4: Demonstrate usage of possessive pronouns and verbs with prepositions in relative sentence construction CO 5: Apply adverbial pronouns and pronouns with verbs in grammatical contexts
Core	Germany, Its Land and Culture	CO 1: Explain the demography and break the stereotypes associated with Germany CO 2: Understand ancient and modern German history, the rise and fall of the Berlin Wall and stigmas associated with its past CO 3: Gain an overview of important local celebrations in Germany and its food, music, cinema and mass media culture CO 4: Describe the family systems, value and moral systems and core concepts of social hierarchy and socio- relational boundaries in Germany CO 5: Comprehend the modern education and economic system in Germany through its everyday life
		CO 1: Have an overview of Sanskrit language and construct simple sentences for effective communication

Core	Basics of Sanskrit	CO 2: Explain basic grammatical concepts at the foundation level CO 3: Gain an overview of 20 prepositional particles prefixed to verbs and action nouns and gender usages CO 4: Develop comparative philology, linguistics, phonetics, syntax and semantics CO 5: Identify and appreciate the similarities between Sanskrit and German
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