


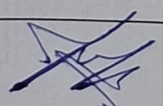
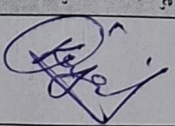
5	3040243302	Integrated Web Solutions -II	1&2(Half)	Mr. Ketan Nakum	1. Django Refresher + Intermediate Development 2. RESTful API Development with Django REST Framework	40%
					1. Project structure & MVC pattern, Models, Migrations, Admin Customization, Views and Template rendering, CRUD operations with Forms, File upload & media management, Authentication (login/logout) & sessions, Messages framework, Intro to Django signals 2. Serializers: basic & nested, ViewSets, Routers, Permissions, JWT Authentication using django rest framework-sample jwt,	K. S. Nakum

Head of Department

Principal, SOCCA

Silver Oak College of Computer Application
Department of Computer Science
Bachelor of Science Computer Science & Information Technology

BSC(CSIT) Semester - 5 INTERMEDIATE EXAM SYLLABUS

S.NO	Subject Code	Subject Name	Unit No	Faculties Name	Unit Name	Syllabus %	Topics	Sign
1	3040243336	Introduction to Internet of Things	1&2	Mr. Alap Jagdale	1) Internet of Things Overview 2) IoT Devices, Embedded Systems and Cloud Integration	40%	Evolution of IoT, IoT definition, characteristics, key components, functioning of IoT system, M2M & End to End IoT architecture, advantages & disadvantages, interdependencies of IoT and cloud computing. Sensors and Actuators for IoT applications, Programming microcontrollers like Arduino, ESP32.	
2	3040243301	Software Project Management	1 & 2	Ms. Janki Purohit	1) Software Projects 2) Project Monitoring & Control	40%	Software Projects: Understanding Software Projects, Software Project management, Software Development Life cycle, Typical Software roles and responsibilities, Components, Review of Models for Software Development Project Planning: Planning process, definition, estimation, testing strategy, team members, organization structure, database, capability baseline, quality objectives, Project Management Plan Software Quality & Metrics: Understanding quality, definitions, attributes of measures, Metrics for different types of projects Project Control, effort data, Monitoring and Control, Quantitative techniques, Monitoring Process, Tools and techniques, Example of Monitoring, Data collection, Piloting	
3	3040243303	Data Mining and Business Intelligence	1,2 (Half)	Ms. Kinjal Bhavsar	1. Overview and concepts Data Warehousing (DW) and Business Intelligence (BI) 2. Introduction to data mining (DM)	40%	> Reporting and Analyzing Data, Raw Data to Valuable Information, Lifecycle of Data, Business Intelligence (BI), BI and DW in Today's Perspective, Data Warehousing, The Building Blocks: Defining Features, Data Warehouses and Data Marts, Overview of the Components, Metadata in the Data Warehouse, Need for Data Warehousing, Basic Elements of Data Warehousing, Trends in Data Warehousing, Relation between BI and DW, OLAP (Online Analytical Processing) Definitions, Difference between OLAP and OLTP, Dimensional Analysis. > Motivation for Data Mining, Data Mining-Definition and Functionalities, Classification of DM Systems, DM task primitives, Integration of a Data Mining system with a Database or a Data Warehouse, Issues in DM – KDD Process	
4	3040243338	Mobile Game Development	1&2(Half)	Ms. Palak Jobanputra	1. Introduction to Mobile Game Development 2. Game Development Fundamentals	30%	1. Overview of Mobile Games: History, Trends, and Market, Game Design Principles: Mechanics, Dynamics, and Aesthetics, Game Development Pipeline: Pre-production, Production, and Post-production, Introduction to Game Engines: Unity, Unreal Engine, and Godot, Mobile Game Games and Case Studies 2. Game Development Fundamentals : Understanding Game Physics: Gravity, Collisions, Rigid Bodies, KinematicBody2D,	