Vidnyan Mahavidhyalaya Sangola
Department of Computer Science
Teaching Plan

Teacher Name: Mr.Shaikh N.S   **Academic Year :2020-21**

Class	Subject	July	August
BCA-I	Office Automation	**<u>Introduction to Computer:</u>** Applications of Computer, Advantages of Computer, Characteristics of Computer, Hardware & Software. **<u>Windows:</u>** **<u>MS Word:</u>** **Formatting Documents:** **Setting Page style:** **Creating Tables:-** **Drawing: Inserting Clip Arts, Pictures/Files etc.** **Tools:** **MS Excel:**	<u>MS Access:</u> <u>Introduction, Planning a Database, Starting Access, Access Screen, Creating a New Database, Creating Tables, Working with Forms, Creating queries, Finding Information in Databases, Creating Reports, Types of Reports, Printing & Print Preview – Importing data from other databases viz. MS Excel etc.</u>
BCA-II	Financial Accounting with Tally	**<u>Introduction to Book-keeping and Accountancy-</u>** Definition and Objectives, Importance of Book-keeping, Difference between Book-keeping and Accountancy, Definition of Accountancy, Basis of Accounting System, characteristics of accounting information, Basic Accounting Terminologies,	**<u>Fundamentals of Double Entry Book-keeping- I</u>** Journal- Importance and Utility of Accounting Documents, Definition, Importance and Utility of Journal, Specimen of Journal, Recording of Journal entries with GST. Ledger- Definition and Importance of Ledger, Specimen of Ledger, Posting of entries from Journal/Subsidiary Books to

Class	Subject		
BCA-II	Ethics and Cyber law	**Introduction to Cybercrime:** what is Cybercrime, Categories of Cybercrime Classifications of Security attacks (Passive Attacks and Active Attacks), Essential Terminology. E-Mail Spoofing, Spamming, Cyber defamation, Internet Time Theft, Newsgroup Spam/Crimes from Usenet Newsgroup, Industrial Spying/Industrial Espionage, Hacking, Online Frauds, Pornographic Offenses, Software Piracy, Password Sniffing, Credit Card Frauds and Identity Theft. Cyber offenses:	**Cyber Law: Introduction, Information Technology Act-2000,** Introduction to Ethical Hacking: What is Hacking, Types of Hackers,Reasons for Hacking, Effects of Computer Hacking on an organization. Foot Printing: What is Foot Printing, Objectives of Foot Printing, Finding a company's details, Finding a company's domain name, **Types of Attacks** - phishing, key loggers, backdoor access, password cracking, data stolen, data deleted virus attack.

Class	Subject	September	October
BCA-III	Recent Trends in IT	**GREEN IT INTRODUCTION** Environmental Impacts of IT, Holistic Approach to Greening IT, Green **BIG DATA AND HADOOP** 1: Introduction to Big Data Topics - What is Big Data and where it is produced? Rise of Big Data, Compare Hadoop vs traditional systems, Limitations and Solutions of existing Data Analytics Architecture, Attributes of Big Data,	**DATA SCIENCE** Definition, working, benefits and uses of Data Science, Data science vs BI, The data science process, Role of a Data Scientist, Populations and samples, Statistical modeling, probability distributions. **MACHINE LEARNING INTRODUCTION TO MACHINE LEARNING** Why Machine learning, Examples of Machine Learning Problems, Structure of Learning, Learning versus Designing, Training versus Testing, Characteristics of

		Types of data, other technologies vs Big Data	Machine learning tasks, Predictive and descriptive tasks, Features: Feature types, Feature Construction and Transformation, Feature Selection. CLOUD COMPUTING INTRODUCTION TO CLOUD COMPUTING .

Teacher Name & Signature   **Head of Department**