K.K.Wagh Education Society's
K. Wagh College of Education, DGP Nagar, Nashik
Micro Planning 2022-2023 (S.Y.B.Ed)
Course - 205-11-Additional Pedagogy Course Understanding disciplines and school subjects
and pedagogy of School Subject - INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

Unit No	Unit Name	Sub Topic	Teaching Methodology	Resrach Paper Discussed	Activities Planned A/V Input	Case Study/Programme Planned	Reference Book/ Website	Other	Assesment Pattern	Lectures	Quality Policy
1	Introduction to Computer	1.1 Introduction to Computers : Definition, Structure, Types	Discussion cum Lecture method	https://www.researchgate.net/publication/371125113_Introduction_to_Computer_and_its_Applications	PPT Presentation		Text/Reference books of ICT subject of std VIII to XII		What is computer? Explain the types of computer. Explain in detail output devices of computer.	4	Need Based
		1.2 Components of Computer - i) Hardware- Concept and classification – CPU & Peripherals Input, output and storage ii)Software- Concept and types iii) Operating system – Concepts, type and functions iv) Application Software - Concepts, type - Word	Interaction	https://ncert.nic.in/textbook/pdf/kecs101.pdf	PPT Presentation		Text/Reference books of ICT subject of std VIII to XIItim		Explain the concept of application software with its types. How will you use MS-word for effective teaching? Explain with suitable examples.	4	Need Based
		1.3 Introduction to basic programming, Introduction to C programming, Generation of Programming Language	Flipped Classroom	https://www.geeksforgeeks.org/c-language-introduction/	PPT Presentation		Text/Reference books of ICT subject of std VIII to XII		Write educational usage of blog.	3	Need Based
		1.4 Introduction to Unicode and Binary number system	Discussion cum Lecture method	https://www.researchgate.net/publication/340168450_Number_Systems_and_Binary_Codes	PPT Presentation		Text/Reference books of ICT subject of std VIII to XII		Explain the concept of WWW (World Wide Web)	4	Need Based
2	Introduction to Networking	2.1. Definition and types of Network – LAN to WAN	Interaction	https://www.researchgate.net/publication/344259472_Categories_of_Network	PPT Presentation		Text/Reference books of ICT subject of std VIII to XII		Difference between LAN and WAN.	4	Need Based
		2.2 Internet Facilities - a. World Wide Web b. e-mail c. Instant Messaging and Chat d. Blog e. VoIP f. e-maps	Interaction	https://www.geeksforgeeks.org/internet-and-its-services/	PPT Presentation		Text/Reference books of ICT subject of std VIII to XII		Write educational usage of blog, e mail and	3	Need Based
		2.3 Morals and Ethics of with reference to cyber law, copyright act and netiquette	Blended Learning	https://www.researchgate.net/publication/370654418_Cyber_Security_and_Indian_Cyber_Laws	PPT Presentation		Text/Reference books of ICT subject of std VIII to XII		Explain in detail morals and ethics of using internet.	4	Need Based
		2.4 Computer Lab : Concept, requirement and lab management	Discussion cum Lecture method	https://www.researchgate.net/publication/305632449_The_Design_of_Public_Computer_Lab_Management_System_Based_on_Network_Environment	PPT Presentation		Text/Reference books of ICT subject of std VIII to XII		As a ICT teacher how will you manage your Computer Lab?	3	Need Based

#	Unit	Sub-topic	Method	Web Resource	Teaching Aid		Reference Book		Assignment/Question	Hrs	Type
3	Nature of ICT	3.1. Nature, scope & place of ICT at secondary & higher secondary level.	Discussion cum Lecture method	https://www.researchgate.net/publicatio 2246814 Role of ICT in Higher Education	PPT Presentation		Chavan Ki r - Informatic d communication, Insite Publication		Explain scope, place and objectives of ICT at secondary level	4	Need Based
		3.2. Objectives of teaching ICT at secondary & higher secondary level.	Interaction	https://www.researchgate.net/publication/339252832_NOVICE_TEACHERS_USE_OF_ICT_FOR_TEACHING_PURPOSES_AT_SECONDARY_SCHOOL_LEVEL_Novice_Teachers_Use_Of_Ict_For_Teaching	PPT Presentation		V.K.Rao - Instructional Technology, APH Publication, New Dehli.		Write the Objectives of teaching ICT at secondary & higher secondary level.	3	Need Based
		3.3. Curriculum & syllabus of ICT at secondary & higher secondary level.	Blended Learning	https://ictcurriculum.gov.in/	PPT Presentation		C.P.Singh- Introduction to Educational Technology,Lotus Press, Delhi.		Difference between curriculum and syllabus.	5	Need Based
		3.4. Textbook and content analysis of ICT	Interaction	https://www.researchgate.net/publication/248606865_Analysis_of_elementary_school_ICT_textbooks_in_Taiwan_and_the_importance_of_content_about_computer_virus	PPT Presentation		Chavan Kishor - Information and communication, Insite Publication		Analyse any one content of ICT subject 12th std. with following points. a) Objectives b) Principles c) Core elements. d) Teaching method e) Evaluation	3	Need Based
4	Pedagogical approaches & resources of ICT.	4.1. a) Methods of teaching: lecture – Demonstration, Experimental, & Project	Flipped Classroom	https://www.researchgate.net/publication/331329665_Effectiveness_of_Lecture_Cum_Demonstration_and_Lecture_Cum_Video_Assisted_Teaching_Method_on_Knowledge_and_Skills_of_Undergraduate_Nursing_Students_of_Selected_Nursing_Educational_Institution_of_Dehra	PPT Presentation		V.K.Rao - Instructional Technology, APH Publication, New Dehli.		Explain project method of teaching ICT Subject with following points. a) Concept b) Features c) Merits d) Limitations e) Educational implication	6	Need Based
		b) Models & Approaches : 5-E Learning Model, Computer Assisted Instruction, Project based learning, Blended Learning,	Flipped Classroom	https://www.researchgate.net/publication/349917219_Fundamentals_of_E-Learning_Models_A_Review	PPT Presentation		Chavan Kishor - Information and communication, Insite Publication		Explain 'Blended Learning Approach' of ICT with following points. a) Concept b) Features c) Merits d) Limitations e) Educational implication	4	Need Based
		4.2 Use of ICT for students from Deprived Community	Blended Learning	https://www.researchgate.net/publication/353751869_ICT_Use_Behaviour_and_Student_Alienation_A_Descriptive_Correlational_Study	PPT Presentation		V.K.Rao - Educational Technology, APH Publication, New Dehli.		How will you use ICT for students from deprived community	3	Need Based
		4.3. Learning resources in ICT	Flipped Classroom	https://www.researchgate.net/publication/344224826_The_Impact_of_the_Lack_of_ICT_Resources_on_Teaching_and_Learning_in_Selected_South_African_Primary_Schools	PPT Presentation		Arora Bansal - Computer fundamentals		Write the learning resources in ICT	3	Need Based
		4.4. Competencies of ICT teacher	Discussion cum Lecture method	https://www.researchgate.net/publication/357049079_ICT_Competence_of_a_Teacher_in_the_Context_of_Digital_Transformation_of_Education	PPT Presentation		Chavan Kishor - Information and communication, Insite Publication		Which efforts will you take to enhance competencies of ICT teacher.	4	Need Based

PRINCIPAL
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