Course Title: 21st Century Skills

Course No.: ICT. Ed. 438

Level: Bachelor. Semester: Third **Program: BICTE**

Nature of course: Theoretical

Credit Hour: 3 hours Teaching Hour: 48 hours

1. Course Description

The aim of the course is to help students on 21st Century skills that today's students need to succeed in their careers during the Information Age. After the learn and practices of Critical thinking, Creativity, Collaboration, Communication, Media literacy, Flexibility, Leadership, cross-culture adaptation skills, the student will be able to develop and deepen their professional and general competences, to use innovative teaching tools and techniques as well as facilitate classroom.

2. General Objectives

After the completion of this course, the students should be able to:-

- To explore the different dimension of 21st century skills and practices.
- To able to demonstrate critical thinking and problem solving skill toward the new creation in classroom.
- To able establish the collaboration and communication teaching learning environment.
- To build skill to e-leadership and self-directed learn abilities.
- To explore the cross-culture practices on 21st CS and ready to cope up with learning environment.

3. Course Outlines:

	Specifi <mark>c Objectiv</mark> es	Contents	, 1	
•	Describe the concept of 21 st CS skills. Explain the 21 st CS component of 4C, IMT and FLIPS. Define the ATCs 21 CS Skills.	1.1 Defi 1.2 Con 1.3 Nat 1.4 ATC	oduction to 21st CS inition of 21st CS inponents of 21st CS: 4C, IMT, FLIPS ional Curriculum framework and 21st CS 21s 21st Century Skills ad Outcomes of 21st Century Skills	8
•	Explore the different levels arguments. Apply the rational discussion into critical thinking process. Demonstrate a critical thinking activity in classroom. Explain a creativity and innovation. Demonstrate the creative and innovative activities in classroom.	2.1 Cor 2.2 Exa 2.3 Rat argi 2.4 Dec 2.5 Crit 2.6 Cor 2.7 Cre 2.8 Class	tical Thinking, Creativity and Innovation acept of argument innel of good vs bad argument ional discussion and reply rationally to an ament ductive arguments vs non-deductive arguments tical thinking activities in classroom acept of innovation and creativity ativity, innovation and learning asroom Activities of creativities and innovation asroom Activities on creativity and innovation	12
•	Explain basic component of communication. Define the types of communication.	Unit III: Co literacy 3.1 Cor	mmunication, collaboration and media mponent of Communication less of communication media	12

Explain the different mode of	3.3 Concept of collaboration	
collaboration.	3.4 Social media and collaboration practices	
Explain the media literacy for	3.5 Classroom collaboration	
learner	3.6 Concept of media literacy for learner	
Demonstrate the application for	3.7 Digital citizen and netiquettes	
create, publish, share learning	3.8 Application of create, publish, share audio, video	
materials	materials.	
	3.9 Classroom activities on publishing students	
	portfolios in online	
Define the 21 st Century e-	Unit IV: e-Leadership and Responsibility	6
Leadership.	4.1 Concept of e-leaderships in education	
Describe the flexibility and	4.2 Characteristics of 21 st Century leadership	
adaptability in learning	4.3 Learning flexibility and adaptability	
environment.	4.4 Self-directed leader	
Explain the self-direct learner	4.5 Self-director learning classroom activities	
characteristics	4.6 Classroom activities on 21 st Century leadeship	
Define the social and cross-	Unit V: Social and Cross-Cultural Interaction	6
culture learning environment.	5.1 Concept of digital culture and global villages	
Explore the ethical issues in cross-	5.2 Ethical issues of cross culture interaction	
culture learning environment.	5.3 Privacy and freedom of expression in digital world	
a Complete	5.4 Cultural difference and Privacy	22.
	5.5 Classroom Activities on ethical issues, privacy and	
	freedom of expression on online beahaviours.	
 Analyze the practices of 21st CS 	Unit VI: CASE Study on critical thinking, creativity and	4
skill <mark>s in </mark> educa <mark>t</mark> ion system.	innovation and collaboration practices in classroom using	
	digital technology.	
	3.0	

4 Instructional Techniques

The instructional techniques for this course are divided into two groups. The first group consists of general instructional techniques applicable to most of the units. The second group consists of specific instructional techniques applicable to specific units.

4.1 General Instructional Techniques

- Introductory presentation on each topic of the unit bye the teacher
- Use of lecture, question answer, discussion, brainstorming and buzz sessions for the theoretical contents.

4.2 Specific Instructional Techniques

Unit	Suggested specific Instructional Techniques	
I	 Students are divided into gender disaggregated groups. Each group is assigned to prepare key aspects 4C, IMT, FLIPS 21st CS skills. The students will present the group work in the class. 	
II, III,	Students are divided into groups. The groups will visit a nearby school, observe a class	

IV, V	and assess which 21st CS Skills teachers are using. Each group prepares a report and		
	present in the class.		
VI	• Students work in pair and discuss different case study about 21st CS and drawn the		
	educational implications from 21st CS for classroom teaching in their computer science		
	areas.		

Evaluation

5.1 Internal Evaluation 40%

Internal evaluation will be conducted by subject teacher based on following activities:

1) Attendance	5	
2) Class participation	5	
3) First assignment (Group work based on unit I, II, III, IV,V)	10	
4) Second assignment (Pair work based on Unit VI)	10	
5) Third assignment (Written test: objectives and subjective)	10	
Total	40	
5.2 Final/Semester Evaluation 60%		

Examination Division, office of the Dean, Faculty of Education will conduct final examination at the end of semester.

Objective type question (Multiple choice 10 x 1ponts)	10
Short answer questions with two OR option (6 questions x 5 points)	30
Long answer questions with one OR option (2 questions x 10 points)	20
Total	60

5. Recommended books and References materials (including relevant published articles in national and international journals)

Recommended books:

21st Century Skills: A Handbook, Central Board of Education, Delhi, 2020

References materials:

Walter Sinnott Armstrong and Robert Fogelin, Understanding Arguments: An Introduction to Informal Logic. 8th Ed. Wadsworth Cengage Learning.

Bellanca, J. A. (Ed.). (2015). Deeper learning: Beyond 21st century skills. Solution Tree Press.

Lamri, J. (2019). The 21st century skills: How soft skills can make all the difference in the digital era.