l l		Pre-Instructional Activities					Instructional Session: peda;	nonical considerations				Post-Lesson activitie	
			Lesson	Assigned resources and	Instructional delivery (Activities	Tracksond		Formative assessment approaches (e.g feed and	Motivation Techniques		Summative	Students' Remedial	Preperation for next
Main Topic	Sub-topic	Specific Objectives/Expected learning outcomes	Environment and/Mode	Assigned resources and materials	Instructional delivery (Activities outlines)	Teacher-centred Activities (TCA)	Student-centred activities(SCA)	other forms of realtime instructional support for students	(rewards, support and encouragments etc)	Lesson Conclusion	assessment and feedback activities	Plan	lessoon (e.g flipping the class)
1. Ovenview of Computer Programming	Computer software basics	Describe user instructions to enable hardware devices and software program	P	Online video resources on Youtube (Link should be added)	Open-ended questions that are connected to learning outcomes	Directed Discussion	free writes, one-sentence summary,	 Questional/ensuess on IDE environments / Computer Systems Computer Systems Commercis from students approved to mit. Commercis from students approved to mit. LMS for streaming commerts 			nt (2) Take home exam nounce the ment for the (3) Supplying feedback a form for the lecture which has basic infractors such as	(1) Revisiting the recorded video of lecture	(1) Videos of previous
	Program Development Environments	Use development environments and their programming tools to create the program or software product		Online video resources on Youtube (Link should be added)	Establishing programming environment	Direct Instruction	Student will install IDE on their own computers		through online lesson environment and rewarding the first 3 correct answers (2) Motivating the students for (3) Brief Int	(3) Brief introduction		(2) Office hours for the Lecturer or the teaching assistant	year's lecture (Link should be shared) (2) Reference book
	Compilation and execution	Use development environments and their programming tools to create the program or software product Archi techniques of triffice blocks to develop.		Online video resources on Youtube (Link should be added) Online video resources on	Running programming environment.	Direct Instruction	Students do the tasks, Students do the task and					(3) Sharing the lecture notes	(3) Homework
	Algorithm basic concepts	Apply techniques of building blocks to develop basic programming steps in the derivation of algorithms Apply techniques of building blocks to develop		Previously recorded videos (Link should be added) Online video resources on	Classify concepts, define vocabulary scaffold steps	Directed Discussion	team/pairs evaluate each other outcome					(4) Counseling (5) Lesson	(3) Homework assignment which includes the basics of the next lecture
	Block diagrams	basic programming steps in the derivation of algorithms		Previously recorded videos (Link should be added) Online video resources on	Showing and explaining examples - Example (1)	Interactive Lecture with Video-Tutorial (1)	free writes, one-sentence summary, one minute papers Open-ended questions that are			to the next lecture (Relevant chapter from the book should		(5) Eusaon tutorials/drills/simulation s (Links should be shared)	or (4) Basic surprise quiz i
	Structure of C++ language	Explain various programming elements and sections of C++ language		Previously recorded videos (Link should be added)	Open-ended questions that are connected to learning outcomes	Direct Instruction	Connected to learning outcomes Student practice on console input			be shared)		(6) Off-topic meetings (1 hour meeting with students to discuss	(4) black adapting of the next lecture (the contents should be generic)
	Testing and driving a computer program in Console	Test and run programs using fundamental user interface of C++ language		LMS preparation	Group creation	students	and output Students focus on their learning					(1) Revising the recorded video of	
2. Variable Concepts and Operators	Basic data types	in C++ programming	_	(Relevant chapters should be announced) Textbook / Manuals / Mooc	connected to learning outcomes	Directed Discussion	process through application with Mobile Game (1)			(1) Summarize the current lecture content	difficulty of the lecture, how well the lecture is	lecture (2) Office hours for the	(1) Videos of previous year's lecture (Link should be shared)
	Constants and variables	Demonstrate and apply techniques of declaring and initializing variables		(Relevant chapters should be announced) Textbook / Manuals / Mooc	Open-ended questions that are connected to learning outcomes Multiple-choice items, solving a	Directed Instruction	Student practice on computer					Lecturer or the teaching assistant (3) Sharing the lecture	(2) Reference book chapter
	Numeric types, operations	Identify all numeric types and operations.		(Relevant chapters should be announced) Textbook / Manuals / Mooc	problem, comparing and filling in lecture notes,	answering student questions Demonstration w/IDE	Student practice on computer Suprise questions (Equiz-1) to	Group work/team project with Case-Study (1) to make students applying course knowledge to	Reward System for assignments (League of programming concept	(2) Announce the assignment for the lecture		(4) Courseling	(3) Homework assignment which includes the basics of
	Assignments	Learn assignment operators' syntax to assign values to variables	-	(Relevant chapters should be announced)	Open-ended questions that are connected to learning outcomes	Student	motivate students to do the readings	produce something	-LOP)	(3) Brief introduction to the next lecture (Relevant chapter from the book should be shared)		(5) Lesson tutorials/drills/simulation	the next lecture or
	Type casting	Choose appropriate primitive data types and become familiar with the casting technique to enable the conversion of one data type into another		Textbook / Manuals / Mooc (Relevant chapters should be announced)	Applying course content to real-world engineering examples	Demonstration w/IDE	Student practice on computer					s (Links should be shared) (6) Off-topic meetings (1	(4) Basic surprise quiz in the beginning of the next lecture (the contents should be generic)
		another										hour meeting with students to discuss about anything except (1) Revisiting the	should be generic)
3. Decision Making I	Logical expressions	Identify true and false Boolean expressions to apply on relational or arithmetic tests		Textbook / Manuals / Mooc (Relevant chapters should be announced)	Ilustration of Boolen expressions with real life examples	presenting material and answering student questions	free writes, one-sentence summary, one minute papers			(1) Summarize the current lecture content (2) Announce the	or (2) Take home exam (3) Supplying feedback form for the lecture which boxin	(1) Revisiting the recorded video of lecture	(1) Videos of previous
	Conditional statements	Create an algorithmic hypothesis and execute sequentially to conclude statement		Textbook / Manuals / Mooc (Relevant chapters should be announced)	Presenting conditional statement examples	Demonstration w/ IDE	Students focus on their learning process through application with Mobile Game (2)					(2) Office hours for the Lecturer or the teaching assistant	year's lecture (Link should be shared)
								(1) Questions/Answers on Mobile Game and IDE tutorial				(3) Sharing the lecture notes	(2) Reference book chapter (3) Homework
			Online/Hybrid			Demonstration w/IDE			Leauge of programming (LOP) challange	(3) Brief introduction		(4) Counseling (5) Lesson	assignment which includes the basics of the next lecture
	Comparison operators	Perform evaluation between numbers or strings		Textbook / Manuals / Mooc (Relevant chapters should be announced)	Applying course content to real-world engineering examples		Student practice on computer			(3) Bhar modulation to the next lecture (Relevant chapter from the book should	indicators such as difficulty of the lecture, how well the lecture is evaluated how well	(5) Existen tutorials/drills/simulation s (Links should be shared)	or
										be shared)	explained, how well they learn the subject, etc.	(6) Off-topic meetings (1 hour meeting with	(4) Basic surprise quiz in the beginning of the next lecture (the contents should be generic)
												hour meeting with students to discuss about anything except the lecture itself) (1) Revision the	
	Switch statement	Learn selection control mechanism based on the evaluated value		Online video resources on Youtube (Link should be added)	Applying course content to real-world engineering examples	Demonstration w/IDE	Student practice on computer	Group work/team project with	Leauge of programming (LOP) challange	(1) Summarize the current lecture content (2) Announce the		(1) Revisiting the recorded video of lecture	(1) Videos of previous
	Complicated conditions implementation	Demonstrate complex decision-making algorithms in a nested structure		Online video resources on Youtube (Link should be added)	Showing and explaining examples - Example (2)	Interactive Lecture with Video-Tutorial (2)	free writes, one-sentence summary, one minute papers				(1) Homework or	(2) Office hours for the Lecturer or the teaching assistant	(1) Videos of previous year's lecture (Link should be shared) (2) Reference book
											(2) Take home exam	(3) Sharing the lecture notes	chapter (3) Homework
4. Desicion Making II		Alter Bou of stytements and codingst Bou of	Online/Hybrid		Multiple-choice items, solving a problem, comparing and filing in lecture notes,	Demonstration w/IDE Student	Student practice on computer	Case-Study (2) to make students applying course knowledge to produce something		assignment for the lecture		(4) Courseling (5) Lesson	assignment which includes the basics of the next lecture
				Online video resources on Youtube (Link should be added)				produce something		(3) Brief introduction to the next lecture (Relevant chapter from the book should be shared)		(5) Eusaon tutorials/drills/simulation s (Links should be shared)	or (4) Basic surprise quiz in
												(6) Off-topic meetings (1 hour meeting with	(4) Basic surprise quiz in the beginning of the next lecture (the contents should be generic)
												students to discuss about anything except the lecture itself)	snouid be generic)
5. Repetition and Loop Statements	Cyclic algorithms	Learn to form multiple execution of a set of instructions in a loop body		Online video resources on Youtube (Link should be added)	Applying course content to real-world engineering examples	Demonstration w/IDE Student	Student practice on computer					(1) Revisiting the recorded video of lecture	(1) Videos of previous year's lecture (Link
	Loop operators with parameter, precondition and postcondition	Identify pre and postconditions to execute algorithms		Online video resources on Youtube (Link should be added)	Applying course content to real-world engineering examples	presenting material and answering student questions	free writes, one-sentence summary, one minute papers			(1) Summarize the current lecture	(1) Homework or	(2) Office hours for the Lecturer or the teaching assistant	(2) Reference book
		Order Casale infinite loop second repeatedly and Laam and mittingies is the means of beller user interface						estions (Equiz-2) to		content	(2) Take home exam (3) Supplying feedback	(3) Sharing the lecture notes	chapter (3) Homework
			Online/Hybrid				Conceptual questions (Equiz-2) to		Leauge of programming (LOP) challange	(2) Periodice the assignment for the lecture (3) Brief introduction	(a) Supplying Nectal form for the lecture which has basic indicators such as difficulty of the lecture,	(4) Counseling (5) Lesson	assignment which includes the basics of the next lecture
	Infinite loops			Online video resources on Youtube (Link should be added)	Review and critique infinite loop studies	Demonstration w/IDE Student	motivate students to do the readings			to the next lecture (Relevant chapter from the book should	should explained, how well the lecture is should explained, how well they learn the subject, etc.	(5) Lesson tutorials/drills/simulation s (Links should be charget)	or (4) Basic surprise quiz in
									þ	be shared)		ananaay	the beginning of the next
											etc.	(6) Off-topic meetings (1 hour meeting with	lecture (the contents should be generic)
				Tanihash (Manada (Mana			Paulate da una se tênis la seria.				etc.	hour meeting with students to discuss about anything except	lecture (the contents
	void function (procedure) and function returning a value	Learn functions to perform tasks including group of statements		Textbook / Manuaks / Mooc (Relevant chapters should be announced)	Encourage students to take notes on key points	presenting material and answering student questions	Students focus on their learning process through application with Mobile Game (3)				etc. (1) Homework	hour meeting with students to discuss about anything except (1) Revisiting the recorded video of lecture	lecture (the contents should be generic) (1) Videos of previous year's lecture (Link
		Learn functions to perform tasks including group of statements Define functions with arguments and learn passing values to functions		Relevant chapters should be		answering student	Students focus on their learning process through application with Mobile Game (3) Student practice on computer			(1) Summarize the current lecture content	or	hour meeting with students to discuss about anything except (1) Revealing the recorded video of lecture (2) Office hours for the Lecturer or the teaching assistant	Iscture (the contents should be generic) (1) Videos of previous year's lecture (Link should be shared) (2) Reference book
8. Modular Programming	function returning a value	group of statements	-	(Relevant chapters should be announced) Textbook / Manuals / Mooc (Relevant chapters should be announced) Textbook / Manuals / Mooc (Relevant chapters should be	key points Encourage students to take notes on key points	answering student questions Demonstration wIDE Student	process through application with Mobile Game (3) Student practice on computer	Short comparative assessments	Leauge of programming (LOP)	(2) Announce the assignment for the	or (2) Take home exam (3) Supplying feedback	hour meeting with students to discuss about anything except (1) Revealing the recorded video of lecture (2) Office hours for the Lecturer or the teaching assistant (3) Sharing the lecture notes	Inchare (the contents should be generic) (1) Videos of previous year's lecture (Link should be shared) (2) Reference book chapter (3) Homework
6. Modular Programming	function returning a value	group of statements Define functions with arguments and learn passing values to functions	Face to Face	(Relevant chapters should be announced) Testbook / Manuals / Mooc (Relevant chapters should be announced) Testbook / Manuals / Mooc	key points Encourage students to take notes on	answering student questions	process through application with Mobile Game (3) Student practice on computer	Short comparative assessments for E-quiz (3)	Leauge of programming (LOP) challange	(2) Amounce the assignment for the lecture	or (2) Take home exam (3) Supplying feedback form for the listure which has basic indextore such as	hour meeting with students to discuss about anything except (1) Kewsimm the recorded video of lecture (2) Office hours for the Lecture or the teaching assistant (3) Sharing the lecture	Ischure (the contents should be generic) (1) Vidaos of previous year's lacture (Link should be shared) (2) Reference book chapter
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6. Modular Programming	function returning a value	group of statements Define functions with arguments and learn passing values to functions	Face to Face	(Relevant chapters should be announced) Textbook / Manuals / Mooc (Relevant chapters should be announced) Textbook / Manuals / Mooc (Relevant chapters should be	key points Encourage students to take notes on key points Review and critique function ouput parameters	answering student questions Demonstration wIDE Student Demonstration wIDE Student	process through application with Mobile Game (3) Student practice on computer		Leauge of programming (LOP)	content (2) Announce the assignment for the lecture (3) Brief introduction to the next lecture (Relevant chapter from the book should	or (2) Take home exam (3) Supplying feedback form for the lacture which has basic indicators such as difficulty of the lacture is nowhich has been until the lacture is nowhich how until	hour meeting with students to discuss about anything except (1) Revealing the recorded video of lacture (2) Offlice hours for the Lacture or the teaching assistant (3) Shaving the lacture notes (4) Counseling (5) Lesson tutorials/dflfs/simulation to Links should be	Inclure (the contents should be generic) (1) Videos of previous year's lecture (Link should be shared) (2) Reference book chapter (3) Homework assignment which includes the basics of the next lecture or
ii. Modular Programming	function returning a value	group of statements Dufine functions with arguments and latem assisting values of latence statistics and a statements of the statements Understated return type value during function declarations	Face to Face	Relevant chapters should be announced Textbook / Manuals / Mooc Relevant chapters should be announced Relevant chapters should be announced Relevant chapters should be announced	key points Encourage students to take notes on key points Review and critique function cuput parameters Encourage students to solve contain motione early compare with function ways.	answing student questions Demonstration wIDE Student Demonstration wIDE Student	process through application with Mathie Came (2) Bludent practice on computer Conceptiant specificer (Equited) Conceptiant specifier (Equited) Conceptiant specifier to the specific contraint specific on computer		Leage of programming (LCP) chalange	content (2) Announce the assignment for the lecture (3) Brief introduction to the next lecture (Relevant chapter from the book should	or (2) Take home exam (3) Supplying feedback form for the lacture which has basic indicators such as difficulty of the lacture is nowhich the lacture is nowhich how well the lacture is	hour meaking with advantars to discuss advantars to discuss advantars to discuss advantars and the method of the lacture or the teaching assistant (3) Shuring the lacture notes assistant (4) Counseling (5) Lacture or the teaching assistant (4) Counseling (5) Lacture or the teaching assistant (4) Counseling (5) Lacture or the teaching assistant (4) Counseling (5) Lacture of the teaching assist advantary of the teaching assistant students to discuss advantary assist advantaries of the teaching and the teaching and the teaching and the teaching and the teaching assist advantary ad	Netwer (the contents about be generic) (1) Videos of previous year's lecture (Link about be shared) (2) Reference book chapter (2) Homework assignment which includes the basics of the next lecture of (6) Basic surprise guitz in the basics of the contents
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