OF TECHNOLD

National Institute of Technology Meghalaya

An Institute of National Importance

CURRICULUM

140	TUTE OF TECHNOLOG	or we							×							
Programm			Engineeri		Year of Regulati											
D	epartme	ent Mechanical Engineering								Credit Structure			lester	II Marks Distribution		
Cou	irse de	Course Name							L	Т	P	С	Conti	nuous Evalua		Total
		Commuting Lak						0	0	2	1	Conti		uion	100	
CS 152 Computing Lab To introduce programming using C language and to write								U				he basic c	100 oncepts and t	erminolo		
										CO1	program	nming in	general.	-		
programs in C on a computer, and to edit, compile, debug, correct, recompile and run those.							CO2			ithmic thinking to analyse a problem and ithm to solve it.						
~	-	TO incurcate the ability to do argontunine uninking to analyse rear-								CO3	Able to use the C programming language to implement various algorithms. Able to choose the right data representation formats					
Coı Obie	irse ctives								Course Outcomes	0.05						
- J		CO4 CO4 CO4 based on the requirement								irements	ts of the problem. on a computer, edit, compile,					
	-	CO5 Able to write programs of													grams on	
To train the students in choosing right data representat based on a problem specification.						sentation f	ormats			debug, correct, recompile and run those.						
		1	1	1						CO6		ganizatio		-		
No.	COs						-		comes (POs					Mapping with PSOs		
	<u></u>	PO1 3	PO2 0	PO3	PO4 0	PO5	PO6 0	PO7 0	PO8 0	PO9 0	PO10 1	PO11 1	PO12	PSO1 0	PSO2	PSC 0
1 2	CO1 CO2	2	3	3	2	1	1	0	0	1	0	0	0	1	1	0
3	CO3	3	3	3	2	1	0	0	0	1	0	0	0	0	3	0
4	CO4	3	2	1	2	0	0	0	0	0	0	0	0	0	1	0
5	CO5	3	0	3	2	3	1	0	0	1	0	0	0	0	2	0
6	CO6	3	2	2	2	0	0	0	0	2	0	0	0	0	1	0
								SYLLA	ABUS							
lo.	C				1	1 1	Content							Hours		COs
ļ	C		o print the Hello Wo		as snown	below:								02		
				lello Worl	d %									•=		
Ι	\\ Hello World \\ C program to print the result of the following arithmetic expression where a=4, b= 5.															
ļ	C	program t		result of th	ne followi	ng arithm	etic expres	ssion wh	ere a=4, b=	5.						
ļ		-	$\frac{5a + ab^2}{\sqrt{a^2+9}}$													
II	C program to check a given number is odd or even and positive or negative.															
			o read thre					umber						02		CO1
III	C	program t	o find GCI	O and LCM	A of two n	numbers.								02		CO2
IV			o store ten							1 1	1	10 N	111	02		
		1 0			2		1	ositive,	negative, od	d and ev	en numbe	ers [0 < N	< 11].	02		CO3
V	C program to check whether a given number is prime or not. C program to print first N numbers of Fibonacci series.											02		CO4		
VI									ar search), an					02		COF
VI									y before and			inders an	id also	02		CO5
									ger numbers	and also	o the impl	ementatio	on of	02		CO6
VII			to display							pers and	also the ii	nplement	ation			
	Implementation of an algorithm to reverse the elements of an array of integer numbers and also the implementation of an algorithm to display the condition of the array before and after reversal.															
VIII			o solve To					ve and n	on-recursive	method	le.			02		
IV			o impleme							method	13.					
IX	C program to store the name, roll number, marks and grades of 5 students using array of structure. C program to create a file named "StudentDatabase" and storing the name, roll number, phone number and average											02				
Х			o create a f students, w						ime, roll nun	nber, pho	one numb	er and av	erage	02		
							l Hours							20		
Essei	tial Re	adings											I			
1.		-		-					th edition, 20							
	V Ra	-			-		-		dition, 2014	•						
			41 66T		ND D 111	ations 16	th edition, 1	2017.								
3.	Yasha			Us C", Bl	PB Publica	ations, 10	· · ·									
3. Supp	Yasha lement	ary Read	ings						1111-1 - 0010							
3. Supp 1.	Yasha lement Byron	ary Read S. Gottfr	ings ied, "Progr	amming v	vith C", M	IcGraw-H	ill Educati	ion, 4 th e	dition, 2018		Dagroop E	ducation	India 2nd	edition, 2015		