A 100 0 Marcane		National Institute of Technology Meghalaya An Institute of National Importance												CURRICULUM				
Р	rogramr	ne	Bachelor of Technology in Computer Science and Eng							ngineering Year of Regula			egulation	2019-20				
D	epartme	nt Computer Science and Engineering									Semester			VI				
Course Code CS352		Course Name Software Engineering Lab To introduce the Software Development life cycles Models								Credit	Structure			Marks Distribution				
									L	Т	Р	С	Continuo Evaluat		lb Test/ Viva	Total		
									0	<b>1</b> CO1	2 2 70 Able to identify, formulate, and solve problems			solve com	30 100 complex engineering			
	-	To analyse		CO2	Able to recognize ethical and professional responsibilities i engineering situations				ilities in									
Course Objectives		To introduce various design methods for software Development To develop an ability and skill to test software systems							Course Outcomes	CO3	Able to a	nalyze, des	e, design, verify, validate, implement, apply, and					
										CO4	maintain software systems         Able to work in one or more significant application domain							
						lanning	with Drogr							Man				
No.	COs	PO1	PO2	PO3	PO4	Vapping v PO5	PO6		comes (POs)	PO9	PO10	PO11	PO12	PSO1	PSO2	PSOs PSO3		
1	CO1	2	PO2 0	PO3 0	P04 0	PO5 0	P06 0	0	0	PO9 0	<b>0</b>	<b>0</b>	0	1	1	0		
2	CO2	2	1	1	1	0	0	0	1	0	0	1	1	2	1	1		
3	CO3	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1		
4	CO4	1	1	1	1	0	0	0	0	1	0	1	1	1	1	1		
							<u> </u>	SYLLA	BUS									
No.	Softw	Content Oftware Development life cycles Models, Agile Process Models Software									Hours		COs					
	Contin	Jormalo Bovelopment me oyoleo modelo, Agne i roceoo modelo outware												00				
		ic program verification tool (SLAM) for verifying critical program behaviour, Data Modelling Concepts, ect Oriented Analysis, Flow-Oriented Modelling,												06		-		
I	Formal verification of concurrent systems using SPIN model checker.													06	CO1			
V	DFD and UML Development for the requirements												06		CO2 CO3 CO4			
V	Desig	n and codi	ng using	software	developn	nent lang	uages							06	06			
<i>/</i> I	Taxonomy of Quality Attributes, Perspectives of Quality, Quality System, Software Quality Assurance, Manual and automated testing tools.													06	;			
	To be	done nece	ssarily as	s mini-pro	ject grou	p-wise in	groups	of at lea	st two/three	studen	ts.							
						Total	Hours							36				
Esse		eadings							4									
1	•			•	-				7 <sup>th</sup> Edition, Mc	:Graw-Hi	II, 2009.							
		Mall, "Fund			<u> </u>	0												
3	. Ian S	ommerville	Software	e Engineer	'ing". 9"'E	dition, Pea	arson Edu	ication, 2	2011.									
Supr	olement	tary Readir	ngs															
		A Reference	<u> </u>	search.mi	crosoft.co	m/en-us/r	orojects/sl	lam/										
		Model Che	•				•											
- 2					-													