AC – Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)



Title of the Course: Green Computing

Programme: B.Sc(Information Technology) Semester I

Syllabus for 2 credit Course

From the academic year- 2024-2025

Name of the Course: Green Computing

Sr.	Heading	Particulars				
No.						
1	Description of the course t	Crean computing or sustainable computing is the practice of				
I	Description of the course :	maximizing energy efficiency and minimizing environmental				
		impact in the ways computer chips, systems and software are				
		designed and used.				
2	Vertical :	Skill Enhancement Course				
3	Туре:	Theory and Project				
4	Credit:	2 credits (1 Credit = Theory and 1 Credit = Project Work)				
_		20.32				
5	Hours Allotted :	30 Hours				
6	Marks Allotted:	50 Marks				
		Continuous Evaluation: 20 Marks				
7	Course Objectives	Semester-End: 30 Marks				
/	1 To decrease the use of dangerous chemicals, maximize energy officiency throughout the product's					
	lifecvcle.					
	2. To maximize recyclability or biodegradability of obsolete manufacturing and production garbage.					
8	Course Outcomes:					
	1. Learn about green assets, modelli	ing and information systems				
	2. Obtain the fundamentals of green computing and its IT strategies					

0	Madula 1. Overview Jaguag and Initi	otivog Minin	niging Dor	ver Llaga (15 Hours)				
9	wodule 1: Overview Issues and Initia	auves, minin	nzing Pov	wer Usage (15 mours)				
	 Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power. Global Initiatives: United Nations, Basel Action Network, Basel Convention, WEEE Directive, RoHS, National Adoption, Asia: Japan, China, Korea. Power Problems, Monitoring Power Usage, Servers, Low-Cost Options, Reducing Power Use, Data De-Duplication, Virtualization, Management, Bigger Drives, Involving the Utility Company, Low- Power Computers. 							
	Module 2: Recycling, Going Paperle	ess, Staying G	reen (15	5 Hours)				
 Problems, China, Africa, Materials, Means of Disposal, Recycling, Refurbishing, Ma Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Correspondence of the Best One, Checklist, Certifications, Hard Drive Recycling, cleaning a Ha Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Going Paperless, Paperless Billing, Handheld Computers vs. the Clipboa Communications, Intranets, Building an Intranet, Microsoft Office SharePoint & Electronic Data Interchange (EDI). Organizational Check-ups, Chief Green Officer, Evolution, Sell the CEO, SM Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmark Data, Helpful Organizations. 								
10	Deference Decker							
	 Author :Raj Kumar Patra, Title: Green Computing and Its Applications, Publisher: Nova Science, 5th Edition, Year: 2021 https://e-next.in/bsc-it/sem2/green-computing/ 							
11	Internal Continuous Assessment: 20%		Semester End Examination : 30%					
12	Continuous Evaluation through:		Project					
13	Format of Question Paper: Scho Table 1A: Scher Scho	eme of Eval ne of Contir eme of Eval	Evaluation Pattern Continuous Evaluation (CE/Practical) Evaluation Pattern					
	Sub components Maximu		Marke	arks Conditions for passing				
	1) Project	15		A learner must be present for each of the sub-components.				
	2) Journal and Viva Total	5						
		1000 20						

Table 1B: Scheme of Semester End Examination (SEE) EvaluationQuestion Paper Pattern for Semester End Examination (SEE)Maximum Marks: 30Duration: I Hrs.

Note: All questions are compulsory. Each question has an internal choice.

Question		Nature of Questions	Maximum	
Number			Marks	
1)	Attempt any 3			
	a)		15	
	b)			
	c)			
	d)			
	e)			
2)	Attempt any 3			
	a)		15	
	b)			
	c)			
	d)			
	e)			