Division of Competency Building and Consultancy

BALANCED SCORE CARD

COMPETANCY BUILDING & CONSULTANCY

Skill and Knowledge Development

CBC

EMPLOGABILITY · KNOWLEDGE · CERTIFICATION · EXPRIENCE

Student Information

Name: _____

Student ID: _____

Department: _____

Signature of Student: _____ Date: _____

Signature of Advisor/ Mentor: _____ Date: _____

Engineer Your Future: Build Competency Today!

Student Success Balanced Scorecard Approach for Measuring Student Engagement

The Balanced Scorecard (BSC) is a strategic tool that links a student's growth to their goals, measures, targets, and initiatives, providing a roadmap for acquiring skills, knowledge, and dispositions to improve efficiency.

The Division of CBC proactively monitors student progress using balanced scorecards for skill and tool certifications from leading global organizations like Salesforce, ServiceNow, AWS, and Microsoft Azure etc.

Outcomes of the Balanced Scorecard

Implementing the structured Balanced Score Card will yield several significant outcomes for students, b oth in their academic journey and their professional careers, Such as

- Industry-Recognized Credentials: These certifications serve as proof of the students' capabilities and knowledge, providing them with a competitive edge in the job market.

- High Impact Placements and On Job Success: Secure top-tier job placements and consistently perform at a high level to advance in your career.

- Higher Leverage for Quick Succession and Adoption: Quickly adapt to new roles and responsibilities, positioning student for rapid career progression.

- Employability: Have the attributes, skills, and knowledge to effectively navigat e the job market and secure employment.

Expected Score

CBC has developed a comprehensive Balanced Scorecard that takes into account students' cognitive levels, learning abilities, knowledge, and skills at various stages. This approach aims to ensure that students achieve key target values on the scorecard, enabling them to secure top industry placements, high -impact salaries, and better career opportunities.

Criteria	Weightage	Target Score		
		Advanced Learner	Active Learner	Slow Learner
Certifications *(10 Marks Each)*	50 (5 x 10)	40	30	20
Minor Project *(5 Marks Each)*	10 (2 x 5)	5	5	5
Summer Internship / SRI / GRIP *(5 Marks)*	5 (1 x 5)	5	5	5
FSI / Research Internship Abroad / Paid Internship in company *(10 Marks)*	10 (1 x 10)	10	10	-
Accelerated Course	✓	✓	✓*	-
Paper Publication in Conference *(5 Marks)*	5 (1 x 5)	5	5	5
Paper Publication in Journal *(10 Marks)*	10 (1 x 10)	10	-	-
Placement - Secure Full-time Employment after finishing internship / aiming at CTC above Rs. 10 LPA *(10 Marks)*	10 (1 x 10)	10	10	10
Total score	100	85	65	45

* Allowed for CGPA ≥ 7.5 and no current backlogs

BALANCED SCORECARD

FOCUS AREA	CERTIFICATION	AGENCY	SCORE	ASSESSMENT
SEMESTER – I				
Basic Programming	Oracle Certified Associate, Java SE Programmer	Oracle	10	
SEMESTER – II				
Basic Programming	Python Institute Certified Entry-Level Python Programmer	Python Institute	10	
SEMESTER – III				
Advanced Programming	Certified Associate in Python Programming (PCAP)	Python Institute	10	
Database Management	Oracle Certified Associate (OCA) – Oracle Database 12c	Oracle	10	
SEMESTER – IV				
Cloud Computing	AWS Certified Solutions Architect – Associate	Amazon Web Services	10	
Full stack Development	IBM Full Stack Cloud Developer Professional Certificate	IBM	10	
Mobile Application Development	Google's Associate Android Developer Certification	Google	10	
Fast Path	Accelerated Course (Select from Professional / Open Electives)	IARE / Equivalent NPTEL Course	-	
Internships	Summer Internship Certifications	IARE – SRI / GRIP/ Industry Connects	5	
SEMESTER – V				
Software Development	Certified Secure Software Lifecycle Professional (CSSLP) / Domain 8 - Certified Information Systems Security Professional (CISSP)	ISC2	10	
Cybersecurity	CompTIA Security+	CompTIA	10	
Skills Development	Salesforce Certified Administrator / Developer	Salesforce	10	
Fast Path	Accelerated Course (Select from Professional / Open Electives)	IARE / Equivalent NPTEL Course	-	
SEMESTER – VI				
Data Science and Analysis	IBM Data Science Professional Certificate	IBM	10	
Skills Development	ServiceNow Certified System Administrator	ServiceNow	10	
Fast Path	Accelerated Course (Select from Professional / Open Electives)	IARE / Equivalent NPTEL Course	10	
Real-world Experience and Skills Development	Summer Internship Certifications	IARE – SRI / GRIP/ Industry Connects	5	
	Paper Presentation in Conference	Scopus / SCI / WOS	5	
SEMESTER – VII				
Fast Path	Accelerated Course (Select from Professional / Open Electives)	IARE / Equivalent NPTEL Course	10	
Advanced Topics and Specializations	Microsoft Certified: Azure Fundamentals	Microsoft	10	
Placement	Google Professional Cloud Architect	Google Cloud	10	
	Placement aiming at CTC above Rs. 10 LPA	Industry	10	
Internships	Paid Internship in company / Research Internship Abroad	Industry	10	
SEMESTER – VIII				
Professional Skills and Capstone Projects	Project Management Professional (PMP) / Certified ScrumMaster (CSM)	PMI	10	
	Paper publication in Journal	Scopus / SCI / WOS	10	
Employment	Secure Full-time Employment after finishing internship	Industry	10	
ADD ON CERTIFICATIONS				
Software Development	DevOps Certification	DevOps Institute	10	
Deep Learning	NVIDIA Deep Learning AI associate	NVIDIA	10	
Programming	TensorFlow Developer certification	TensorFlow	10	
Big Data	Cloudera Certified Associate (CCA) Data Analyst	Cloudera	10	
Containerization	Certified Kubernetes Administrator (CKA)	LINUX foundation	10	
	Certified Kubernetes Application Developer (CKAD)	LINUX foundation	10	
ONGOING LEARNING				
Continuous Learning	GitHub and GitLab Badges / GitHub Copilot	GitHub/GitLab	-	

Professional Competency & Skill Enhancement Framework

Students are encouraged to actively engage in the Balanced Scorecard knowledge and skill enhancement program to improve their career prospects.

SEMESTER – I	Basic Programming in Java	NPTEL Suggested link: https://onlinecourses.nptel.ac.in/noc22_cs47/preview By: Prof. Debasis Samanta, IIT Kharagpur	SEMESTER – II	Basic Programming in Python	NPTEL Suggested links: https://onlinecourses.nptel.ac.in/noc24_cs57/preview By: Prof. Sudarshan Iyengar, IIT Ropar
		Minor Project: • Library Management System • Student Management System • Bank Account Management • Simple Chat Application • Inventory Management System			Minor Project • Todo List Application • Weather Application • Agriculture Application • Currency Converter • Simple Blog System • Basic Calculator
SEMESTER – III	Advanced Programming	NPTEL Suggested links: https://nptel.ac.in/courses/106106145 By: Prof. Prof. Madhavan Mukund, IIT Madras	**SEMESTER – IV**	Cloud Computing	NPTEL Suggested links: https://onlinecourses.nptel.ac.in/noc21_cs14/preview By: Prof. Soumya Kanti Ghosh, IIT Kharagpur
		Minor Project: • Web Scraper • Expense Tracker • Game Development • Simple Blog • Quiz App			Minor Project: • Website Hosting • Cloud Storage Integration • Basic Serverless Function • Static Website Deployment • Cloud-Based To-Do List
	Database Management	NPTEL Suggested links: https://onlinecourses.nptel.ac.in/noc22_cs91/preview By: Prof. Partha Pratim Das, IIT Kharagpur		Mobile Application Development	NPTEL Suggested links: https://archive.nptel.ac.in/courses/106/106/106106156/ By: Prof. Gourav Raina, IIT Madras
		Minor Project: • Contact Manager • Library Management System • Student Records System • Employee Management System • Inventory Management System • Movie Database			Minor Project: • Expense Tracker • Fitness Tracker • Social Media Feed • Book Collection Manager • Travel Booking App
				Internship	• Summer Research internship (SRI) • Global Research & Internship Program (GRIP)
SEMESTER – V	Software Development	NPTEL Suggested links: https://onlinecourses.nptel.ac.in/noc20_cs68/preview By: Prof. Rajib Mall, IIT Kharagpur	**SEMESTER – VI**	Data Science and Analysis	NPTEL Suggested links: https://nptel.ac.in/courses/106106179 By: Prof. Shankar Narasimhan, IIT Madras
		Minor Project: • Personal Finance Manager • Task Scheduler • File Encryption/Decryption Tool • Basic Blogging Platform • Project Management Tool			Minor Project: • Exploratory Data Analysis (EDA) • Basic Data Visualization • Simple Linear Regression • Descriptive Statistics Summary
				Publication	Paper Presentation in Conference / Publication in Journal from Project Based Learning / Research based Learning
				Internship	• Summer Research internship (SRI) • Global Research & Internship Program (GRIP)
SEMESTER – VII	Cloud Architecture	NPTEL Suggested links: https://archive.nptel.ac.in/courses/106/102/106102229/ By: Smruthi R Sarangi, IIT Delhi	**SEMESTER – VII**	Major Project	• Global Research & Internship Program (GRIP) • Full Semester Research Internship - Abroad
		Minor Project: • Static Website on Cloud • Simple Web Server Deployment • Basic Cloud Storage Setup • Serverless Function Deployment • Cloud-Based Database			• Paper publication in Scopus / WOS indexed Journal • Science and Technology Start-Up • Patent Publication / Grant

Contact us

Prof. V V S H Prasad,
Dean-Competency Building and Consultancy

📍 R&D Center, Block-9, First Floor
✉ Email: dean-cbcc@iare.ac.in
📞 Contact No.: 9985821449