



Dr. Vishwanath Karad

**MIT WORLD PEACE
UNIVERSITY** | PUNE

TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

SYLLABUS

DR VISHWANATH KARAD

MIT - WORLD PEACE UNIVERSITY

FACULTY OF ENGINEERING AND TECHNOLOGY

INTEGRATED B. TECH.

(COMPUTER SCIENCE AND ENGINEERING)



Integrated B. Tech. Computer Science and Engineering (First Year) **(Batch 2022-28)**

Semester – I

Dr. Vishwanath Karad World Peace University, School of Polytechnic and Skill Development, Pune, India

Scheme for Semester-I

For Computer Science and Engineering

S.No.	Course Code	Name of course	Type	Weekly			In whole Semester		Th Credits	Pr/Tu Credits	CCA	LCA	End Term Exam	Total
				Theory	Tutorial	Practical	Th	Pr/Tut						
1		Basic Mathematics	BS	3	1	0	45	15	4	0	50	0	50	100
2		Basic Physics	BS	2	0	2	30	30	2	1	25	25	50	100
3		Basic Chemistry	BS	2	0	2	30	30	2	1	25	25	50	100
4		Fundamentals of Biology for Engineers	BS	2	0	0	30	0	2	0	50	0	50	100
5		Computer Workshop	ES	0	0	2	0	30	0	1	0	50	0	50
6		Problem Solving & Program Design	ES	2	0	2	30	30	2	1	50	50	0	100
7		Engineering Graphics	ES	0	0	2	0	30	0	1	0	50	0	50
8		World Famous Philosophers sages/Saints and great Kings	HS	3	0	0	45	0	3	0	0	70	30	100
9		Yoga for Winning Personality	HS	0	0	2	0	30	0	1	0	50	0	50
				14	1	12	210	195	15	6	200	320	230	750

**Assessment Marks are valid only if Attendance criteria are met

Semester Teaching Hours: 405

Total Credits: First Year Integ. B. Tech Semester I: 21

*CCA: Class Continuous Assessment

*LCA: Laboratory Continuous Assessment



Integrated B. Tech. Computer Science and Engineering (First Year) **(Batch 2022-28)**

Semester – II

Dr. Vishwanath Karad World Peace University, School of Polytechnic and Skill Development, Pune, India

Scheme for Semester-II

For Computer Science and Engineering

S.No.	Course Code	Name of course	Type	Weekly			In whole Semester		Th Credits	Pr/Tu Credits	CCA	LCA	End Term Exam	Total
				Theory	Tutorial	Practical	Th	Pr/Tut						
1		Engineering Mathematics-I	BS	3	1	0	45	15	4	0	50	0	50	100
2		Applied Science	BS	4	0	2	60	30	4	1	50	50	50	150
3		Applied Mechanics	ES	3	0	2	45	30	3	1	25	25	50	100
4		Communication Skills	HS	2	0	0	30	0	2	0	100	0	0	100
5		Introduction to Electronics & Electrical Engineering	ES	2	0	2	30	30	2	1	25	25	50	100
6		Web Page Designing	PC	0	0	4	0	60	0	2	0	50	0	50
7		Programming in C	PC	2	0	4	30	60	2	2	25	25	50	100
8		Yoga for Winning Personality	HS	0	0	2	0	30	0	1	0	50	0	50
9		Rural Immersion Program	HS	1	0	0	15	0	1	0	0	0	0	0
				17	1	16	255	255	18	8	275	225	250	750

**Assessment Marks are valid only if Attendance criteria are met

Semester Teaching Hours: 510

Total Credits: First Year Integ. B. Tech Semester I: 26

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Integrated B. Tech. Computer Science and Engineering (First Year)
(Batch 2022-28)

Semester – III

Dr. Vishwanath Karad World Peace University, School of Polytechnic and Skill Development, Pune, India

Scheme for Semester-III

For Computer Science and Engineering

S.No.	Course Code	Name of course	Type	Weekly			In whole Semester		Th Credits	Pr/Tu Credits	CCA	LCA	End Term Exam	Total
				Theory	Tutorial	Practical	Th	Pr/Tut						
1		Digital Techniques and Microprocessor Programming	PC	3	0	2	45	30	3	1	25	25	50	100
2		Algorithms and Data Structures	PC	2	0	4	20	60	2	2	25	25	50	100
3		Object Oriented Programming Concepts	PC	3	0	4	45	60	3	2	25	25	50	100
4		Data Communications and Computer Network	PC	3	0	2	45	30	3	1	25	25	50	100
5		Programming with Python	PC	0	0	2	0	30	0	1	0	50	0	50
6		Peaceful Communication and Collaborative Human Dynamics	HS	3	0	0	45	0	3	0	70	-	30	100
				14	0	14	200	210	14	7	170	150	230	550

****Assessment Marks are valid only if Attendance criteria are met**

Semester Teaching Hours: 410

Total Credits: First Year Integ. B. Tech Semester I: 21

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Integrated B. Tech. Computer Science and Engineering (First Year)
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Semester – IV

Dr. Vishwanath Karad World Peace University, School of Polytechnic and Skill Development, Pune, India

Scheme for Semester-IV

For Computer Science and Engineering

S.No.	Course Code	Name of course	Type	Weekly			In whole Semester		Th Credits	Pr/Tu Credits	CCA	LCA	End Term Exam	Total
				Theory	Tutorial	Practical	Th	Pr/Tut						
1		Fundamentals of Operating Systems	PC	3	0	2	45	30	3	1	25	25	50	100
2		Data Structures and Files using C	PC	2	0	4	20	60	2	2	25	25	50	100
3		Relational Database Management System	PC	3	0	2	45	30	3	1	25	25	50	100
4		Fundamentals of Information Security	PC	2	0	2	30	30	2	1	25	25	50	100
5		Core Java Programming	PC	2	0	4	30	60	2	2	25	25	50	100
6		Fundamentals of Artificial Intelligence	PC	2	0	0	30	0	2	0	100	0	0	100
				14	0	14	200	210	14	7	225	125	250	600

****Assessment Marks are valid only if Attendance criteria are met**

Semester Teaching Hours: 410

Total Credits: First Year Integ. B. Tech Semester I: 21

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Integrated B. Tech. Computer Science and Engineering (First Year)
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Semester – V

Dr. Vishwanath Karad World Peace University, School of Polytechnic and Skill Development, Pune, India

Scheme for Semester-V

For Computer Science and Engineering

S.No.	Course Code	Name of course	Type	Weekly			In whole Semester		Th Credits	Pr/Tu Credits	CCA	LCA	End Term Exam	Total
				Theory	Tutorial	Practical	Th	Pr/Tut						
1		Project Planning	PR	0	0	2	0	30	0	1	0	50	0	50
2		PE 1: 1.Advanced Computer Network 2.Machine Learning Essentials	PE	3	0	2	45	30	3	1	25	25	50	100
3		Mobile Application Development	PC	2	0	4	30	60	2	2	50	50	0	100
4		Principles of Software Engineering	PC	3	0	0	45	0	3	0	50	0	50	100
5		Advanced Java Programming	PC	3	0	4	45	60	3	2	25	25	50	100
6		Client Side Scripting	PC	2	0	2	30	30	2	1	25	25	50	100
				13	0	14	195	210	13	7	175	175	200	550

****Assessment Marks are valid only if Attendance criteria are met**

Semester Teaching Hours: 405

Total Credits: First Year Integ. B. Tech Semester I: 20

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Integrated B. Tech. Computer Science and Engineering (First Year)
(Batch 2022-28)

Semester – VI

Dr. Vishwanath Karad World Peace University, School of Polytechnic and Skill Development, Pune, India

Scheme for Semester-VI

For Computer Science and Engineering

S.No.	Course Code	Name of course	Type	Weekly			In whole Semester		Th Credits	Pr/Tu Credits	CCA	LCA	End Term Exam	Total
				Theory	Tutorial	Practical	Th	Pr/Tut						
1		Engineering Mathematics II	BS	3	0	0	45	0	3	0	50	0	50	100
2		Project Implementation	PR	0	0	6	0	90	0	3	0	100	0	100
3		Open Elective/ MOOC Course	OE	2	0	0	30	0	2	0	100	0	0	100
4		Internship	PR	0	0	0	0	0	0	8	0	100	0	100
5		PE 2: 1. Ethical Hacking Concepts 2. Data Visualization with R Programming	PE	3	0	0	45	0	3	0	100	0	0	100
				8	0	6	120	90	8	11	250	200	50	500

****Assessment Marks are valid only if Attendance criteria are met**

Semester Teaching Hours: 210

Total Credits: First Year Integ. B. Tech Semester I: 19

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