



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, MSc, Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

Sub Committee - Specialization for Curriculum Development

Course Name : Introduction to Mobile Concepts

Course Code : T3663

Faculty : Computer Studies

Programme Type : UG

Course Credit : 4

Course Level : 3

Sub-Committee (Specialization) : Application Programming

Batch : 2021

Learning Objectives :

- Understand the concepts of Mobile Computing
- Understand the concepts of mobile Communication technology
- Learn Applications of Mobile APPs
- Learn the application of Mobiles in the Media and Gaming
- Learn the uses of AI and Machine Learning for Mobile APPs

Books Recommended :	Book	Author	Publisher
	Mobile Computing Theory and Practice	Kumkum Garg	Pearson
	Mobile Computing Technology, Applications and service creation	Asoke K Telukder, Roopa R Yavagal	TMH
	Wireless Communications & Networks	William Stallings	Pearson

Course Outline :	Sr. No.	Topic	Hours
	1	Introduction of Mobile Computing: History, Types, Benefits, Application, Evolution, Security Concern regarding Mobile Computing, Different Propagation Modes, Wireless Architecture and its types, needs of mobile user, user and device mobility, pro and cor	12
	2	Introduction to Mobile Communication: Wireless Network, Communication Devices and Mobile devices, problem faced in wireless communication.	4
	3	Telecommunication Systems, GPS, GPRS, Mobile IP, Mobile transport layer, Wireless Application Protocol (WAP), 2G, 3G and 4G Network	12
	4	Introduction to Mobile Apps in Media and Gaming: Mobile and Media industry, Mobile APPs for News and entertainment, Mobile Games and Gaming Industry, Web based APPs	12
	5	Mobile APPs for Finance and Banking, Mobile Apps for Education	8
	6	Introduction to Application of AI and Machine Learning for Mobile : Speech to text, Text to Speech Conversion API, Language translation API, Data Analytics in Mobile APPs, Mobile Analytics APPs	12

Pre Requisites :

Introduction to Operating System
Introduction to Networking

Evaluation :

case studies
Assignment
Quiz
Examination

Pedagogy :

Lecture & Discussion
Case study

Expert :

Dr. Shrikant Mapari, Asst. Prof, SICSR