

DHABALESWAR INSTITUTE OF POLYTECHNIC

LESSON PLAN

Discipline <i>Diploma Engg.</i>	Semester <i>5th</i>	Name of the Teaching Faculty <i>Ashis Mohapatra</i>
Subject <i>EIM & Smart Tech (TH-1)</i>	No. of days per Week Class Allotted <i>05</i>	Semester from Dt. <i>01.10.2021</i> To Dt. <i>08.01.2022</i> No. of Weeks: <i>14</i>
Week	Class Day	Theory / Practical Topics
<i>1st</i>	<i>1st</i>	→ <i>Entrepreneurship</i>
	<i>2nd</i>	→ <i>Concept & meaning</i>
	<i>3rd</i>	→ <i>characteristics, need, qualities & types.</i>
	<i>4th</i>	→ <i>Barriers, entrepreneur vs manager.</i>
	<i>5th</i>	→ <i>Business ownership</i>
<i>2nd</i>	<i>Zero (Dashika)</i>	
<i>3rd</i>	<i>1st</i>	→ <i>Types of industries & concept.</i>
	<i>2nd</i>	→ <i>Support agencies, DIC, NSIC, SECI etc.</i>
	<i>3rd</i>	→ <i>Technoparks, Business incubators.</i>
<i>4th</i>	<i>1st</i>	<i>CH-2 Market survey & opportunity identification</i>
		→ <i>Business Planning</i>
	<i>2nd & 3rd</i>	→ <i>SSI, Ancillary unit, Tiny unit, service sector unit.</i>
	<i>4th</i>	→ <i>Time schedule plan, Agencies to be contacted for project implementation</i>
	<i>5th</i>	→ <i>Assessment of Demand & supply & potential areas of growth.</i>
<i>5th</i>	<i>1st</i>	→ <i>Identifying Business opportunity.</i>
	<i>2nd</i>	→ <i>Final product selection</i>
		<i>CH-3 Project Report Preparation</i>
	<i>3rd</i>	→ <i>Preliminary Project Report</i>
	<i>4th & 5th</i>	→ <i>Detailed Project Report, Techno economic Feasibility.</i>
		→ <i>Project viability.</i>
<i>6th</i>	<i>1st</i>	<i>CH-4 Management Principles</i>
		→ <i>Definitions of management</i>
	<i>2nd & 3rd</i>	→ <i>Principles of management</i>
		→

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LESSON PLAN

Dis	Discipline Diploma	Semester 5th	Name of the Teaching Faculty Ashis Mohapatra
Su	Subject Entrepreneurship & MGT (TH-1)	No. of days per Week Class Alloted 05	Semester from Dt. 01.10.21 To Dt. 08.01.2022 No. of Weeks: 14
W	Week	Class Day	Theory / Practical Topics
1		1th	→ Functions of Management. → Level of Management in an organisation.
2nd	7th	1st & 2nd	CH-5 Functional Areas of Management → Production Management → Functions, Activities → productivity → Quality control → Production Planning & control
3rd		3rd & 4th	→ Inventory Management → Need for Inventory Management → Models & Techniques of Inventory management.
4th	8th	5th	→ Financial Management → Functions of Financial Management → Management of working capital → Costing → Break Even analysis → Brief idea about Account terminologies: Book keeping, Journal entry etc.
5th	9th	1st	→ Marketing Management → concept of Marketing & Marketing mgmt. → Marketing Techniques → concept of 4Ps (Price, Place, Product, Promotion)
6th	10th	2nd & 3rd	→ Human Resource Management. → Functions of Personal management → Manpower Planning, Recruitments, Source of manpower etc.
		4th & 5th	CH-6 Leadership & Motivation → Leadership → Definition & need/Importance → Qualities & functions of a leader → Manager Vs Leader → Style of Leadership
	11th	1st & 2nd	→ Motivation → Definition & characteristics → Importance of Motivation.

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Su	Subject <u>E&MST</u> <u>(TH-I)</u>	No. of days per Week Class Alloted <u>05</u>	Semester from Dt. <u>01.10.2021</u> To Dt. <u>08.01.2022</u> No. of Weeks: <u>14</u>
W	Week	Class Day	Theory / Practical Topics
1	12th	3rd, 4th & 5th	→ Factors affecting Motivation → Theories of motivation → Methods of Improving Motivation → Importance of communication in Business. → Types & Barriers of communication
2	13th	1st	CH-7 Work culture, TQM & Safety
3		2nd	→ Human relationship & performance in organization. → Relations with peers, superiors & subordinates. → TQM concept: Quality policy, Quality mgmt, Quality system. → Accidents & Safety, cause, preventive measures, general safety rules, PPE.
4		3rd	
		4th	
		5th	CH-8 Legislation
		1st	→ IPR, Patents, Trademarks & copyrights. → Features of factories Act 1948 → Features of Payment of wages Act 1948
5	14th	2nd & 3rd	CH-9 Smart Technology
6		4th & 5th	→ concept of IOT, How IOT works → component of IOT, characteristics & categories of IOT. → Applications of IOT - smart cities, smart transportation, smart Home, smart Healthcare, Industry, Agriculture, smart Energy management etc.

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Discipline Diploma	Semester 5th	Name of the Teaching Faculty Ashis Mohapatra
Subject Mobile computing (TH-5)	No. of days per Week Class Alloted 05	Semester from Dt. 01.10.2021 To Dt. 08.01.2022 No. of Weeks: 14
Week	Class Day	Theory / Practical Topics
1st	1st 2nd 3rd 4th 5th	(CH-1) Introduction to wireless networks & mobile computing. → Networks → wireless Networks → mobile computing → mobile computing characteristics → Application of mobile computing.
2nd	Zero (Dusahara)	
3rd	1st 2nd 3rd	CH-2 Introduction to mobile development framework. → CS Architecture → n-tier Architecture → n-tier Architecture & www → peer-to peer architecture → Mobile Agent Architecture
4th	1st 2nd 3rd 4th 5th	CH-3 Wireless Transmission → Introduction → signals → Period, Frequency & Bandwidth → Antennas → signal propagation → Multiplexing → Modulation → Spread spectrum → cellular system
5th	1st 2nd 3rd	CH-4 Medium Access control → Introduction → Hidden/Exposed Terminals → The Basic Access Method → Near/Far Terminals → SDMA, FDMA, TDMA, CDMA
6th	4th & 5th 1st & 2nd	

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Week	Class Day	Theory / Practical Topics
7th	3rd & 4th	CH-5: Wireless LANs → Wireless LAN & Communication → Infrared → Radio Frequency → IR Advantages & Disadvantages → RF Advantages & Disadvantages → Wireless Network Architecture Logical → Types of WLAN → IEEE 802.11 → MAC Layer → Security → Synchronization → Power Management → Roaming → Bluetooth Overview
8th	1st & 2nd	
	3rd & 4th	
	5th	
9th	1st & 2nd	CH-6: Ubiquitous Wireless Communication → Introduction → Scenario of Mobile Communication → Mobile Communication Generations 1G to 3G → 3rd Gen. Mobile Communication Network → Universal Mobile telecom. system (UMTS)
10th	3rd & 4th	
	5th	
	1st	
	2nd & 3rd	CH-7: Mobile IP → Overview → Working with Mobile IP → Mobile IP Entities → Mobility Agents → Components of Mobile IP → Mobile IPv6 Features → Mobile IPv6 Address Types → Mobile IPv6 Address Scope → Mobile IP operation
	4th & 5th	
11th	1st	
	2nd	
	3rd & 4th	CH-8: Mobile Computing → WWW architecture for mobile computing → Need of WAP → Benefits of WAP → Examples of WAP
	5th	

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Subject <u>Mobile Computing (CTH-5)</u>	No. of days per Week Class Alloted <u>05</u>	Semester from Dt. <u>01.10.2021</u> To Dt. <u>08.01.2022</u> No. of Weeks: <u>14</u>
Week	Class Day	Theory / Practical Topics
12th	1st 2nd 3rd 4th 5th	→ WAP Architecture → WAP protocols → WML → WAP Push Architecture → Push-Pull Based data acquisition → I-mode → WAP 2.x
13th	1st 2nd & 3rd 4th 5th	CH-9: Wireless Telecomm Networks → GSM → GPRS → IS-95 → CDMA - 2000 → W-CDMA → Wireless sensor Networks
14th	1st & 2nd 3rd & 4th 5th	CH-10: Messaging services → Short Message services (SMS) → Multimedia Message services (MMS) → Multimedia Transmission over wireless.