

## Tentative Detailed Lecture Schedule – PGPM Healthcare Management & Analytics

Time: 02:30 PM to 5:30 PM

Sessions Days: Every Saturday & Sunday

S. No.	Session (s) in the day	Session Topics	Coverage of Topics	Case/ Reading	Faculty
<b>Day 1 – January 15, 2022</b>					
1	Session I	<b>Topic:</b> Healthcare System and Public Health	<ul style="list-style-type: none"> <li>● Understanding Healthcare systems in various parts of the world</li> <li>● Understanding Healthcare System in India challenges and opportunities</li> <li>● Different sectors in healthcare, Pharmaceutical, Medical Equipment</li> <li>● Medical Tourism</li> </ul>	Healthcare Systems: Principled Integrated Care <a href="https://www.who.int/whr/2003/en/Chapter7.pdf">https://www.who.int/whr/2003/en/Chapter7.pdf</a>	Dr. Vinaytosh Mishra
2	Session II				
<b>Day 2 – January 16, 2022</b>					
3	Session I	<b>Topic:</b> Healthcare Financing Mechanism and Health Insurance	<ul style="list-style-type: none"> <li>● Introduction to health insurance, managing cost and revenue in healthcare, Financial Governance and Responsibility Structure,</li> <li>● Managing Reimbursements from Third-Party Payers, Coding in Health Care</li> <li>● Controlling Costs and Cost Accounting, Setting Charges, Managing Working Capital, Managing Accounts Receivable</li> </ul>	Financing common goods for health. (WHO)	Dr. Vinaytosh Mishra
4	Session II				
<b>Day 3 – Jan. 22, 2022</b>					
5	Session I	<b>Topic:</b> Introduction to Healthcare Operations	<ul style="list-style-type: none"> <li>● History of Performance Improvement in healthcare</li> <li>● Forecasting of medical supplies</li> <li>● Inventory classification and Management</li> <li>● Evidence-Based Medicine and Pay-for-Performance</li> </ul>	<ul style="list-style-type: none"> <li>● Course Handouts</li> <li>● Video Cases</li> <li>● Case: TBD</li> </ul>	Dr. Vinaytosh Mishra
6	Session II				
<b>Day 4 – Jan. 23, 2022</b>					

7	Session I	<b>Topic:</b> Setting Goals and Executing Strategies	<ul style="list-style-type: none"> <li>Operations Strategy and the Balanced Scorecard</li> <li>Healthcare Project Management</li> <li>Leadership Issue in managing healthcare projects</li> </ul>	<ul style="list-style-type: none"> <li>Course Handouts</li> <li>Video Cases</li> <li>Case: TBD</li> </ul>	Dr. Vinaytosh Mishra
8	Session II		<ul style="list-style-type: none"> <li>Healthcare Supply Chain Management</li> </ul>		
<b>Day 5 – January 29, 2022</b>					
9	Session I	<b>Topic:</b> Performance Improvement Tools, Techniques, and Programs	<ul style="list-style-type: none"> <li>Tools for Problem Solving and Decision Making</li> <li>Using Data and Statistical Tools for Operations Improvement</li> </ul>	<ul style="list-style-type: none"> <li>Course Handouts</li> <li>Video Cases</li> <li>Case: TBD</li> </ul>	Dr. Vinaytosh Mishra
10	Session II		<ul style="list-style-type: none"> <li>Quality Management: Focus on Six Sigma</li> </ul>		
<b>Day 6—January 30,2022</b>					
11	Session I	<b>Topic:</b> Contemporary Healthcare, Operations Issues and Operation Excellence	<ul style="list-style-type: none"> <li>Process Improvement in Healthcare</li> <li>Patient-Focused care through service lines</li> <li>Healthcare Service Design</li> <li>Cases on Operational Excellence</li> </ul>	<ul style="list-style-type: none"> <li>Course Handouts</li> <li>Video Cases</li> <li>Case: TBD</li> </ul>	Dr. Vinaytosh Mishra
12	Session II				
<b>Day 7—February 5,2022</b>					
13	Session I	<b>Topic:</b> Need and Impact of Digital Health	<ul style="list-style-type: none"> <li>Digital Health, Healthcare 4.0, Healthcare 5.0, Gamification in Healthcare, challenges, and opportunity in digital health</li> <li>Telehealth, Wearable Devices, Framework for implementation of telehealth, Maturity Assessment of Telemedicine, MAST Model, Digital Transformation Evaluation.</li> </ul>	<ul style="list-style-type: none"> <li>Course Handouts</li> <li>Video Cases</li> <li>Case: TBD</li> </ul>	Dr. Uday Pratap Singh
14	Session II				
<b>Day 8-February 6,2022</b>					
15	Session I	<b>Topic:</b> Health	<ul style="list-style-type: none"> <li>Electronic Health Records and Learning Health Systems, Informatics Applications in Public Health,</li> </ul>	<ul style="list-style-type: none"> <li>Course Handouts</li> <li>Video Cases</li> <li>Case: TBD</li> </ul>	Dr. Uday Pratap Singh

<b>16</b>	Session II	Informatics	<ul style="list-style-type: none"><li>• Health Level Seven (HL7), Integrating the Healthcare Enterprise (IHE), Vendor Neutral Archives (VNAs).</li></ul>		
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**Day 9 – February 12, 2022**

17	Session I	<b>Topic:</b> Open Source and Data Revolution and healthcare	<ul style="list-style-type: none"> <li>● Open Source Software (OSS), Concern of Security in OSS,</li> <li>● Open Source in Healthcare, Open Source Software for EHR,</li> <li>● OSS for Disease Management, OSS for Imaging and Visualization,</li> <li>● Big Data, Device used for Big Data Collection</li> </ul>	<ul style="list-style-type: none"> <li>● Course Handouts</li> <li>● Video Cases</li> <li>● Case: TBD</li> </ul>	Dr. Arghya Ray
18	Session II				

**Day 10-February 13,2022**

19	Session I	<b>Topic:</b> IT Infrastructure (IoT/Cloud Computing)	<ul style="list-style-type: none"> <li>● Introduction of IT Infrastructure, Components of IT Infrastructure,</li> <li>● Introduction of Cloud Computing, Components of Cloud Computing,</li> <li>● Emerging Technologies Accelerated by Cloud, Overview of Cloud Service Models, Cloud Deployment Model, Cloud Security, and Monitoring.</li> </ul>	<ul style="list-style-type: none"> <li>● Course Handouts</li> <li>● Video Cases</li> <li>● Case: TBD</li> </ul>	Dr. Arghya Ray
20	Session II				

**Day 11—February 19,2022**

21	Session I	<b>Topic:</b> Future Technologies and Medical & Law Ethics	<ul style="list-style-type: none"> <li>● Security and Privacy Issues</li> <li>● Pharmacovigilance and medico legal cases</li> <li>● Medical Ethics and AI</li> <li>● Future Technologies in Healthcare</li> </ul>	<ul style="list-style-type: none"> <li>● Course Handouts</li> <li>● Video Cases</li> <li>● Case: TBD</li> </ul>	Dr. Vinaytosh Mishra /Guest Lecture
22	Session II				