Course Name: Medical Coding

ABOUT THE COURSE

TOTAL DURATION:	45HRS
MODE OF DELIVERY	PHYSICAL CLASSROOM TRAINING AT RESPECTIVE COLLEGES
TRAINER TO STUDENT RATIO:	1:50
TOTAL MARKS:	75

TABLE 1	
OVERALL COURSE OBJECTIVE:	· Knowledge Acquisition and Application · Proficiency in Coding Systems and Guidelines · Practical Skills Development · Reinstating Ethical and Regulatory Understanding · Communication and Collaboration
LEARNING OUTCOME:	1. Medical Terminology: Application of medical terminology, abbreviations, and symbols used in healthcare documentation. 2. Anatomy and Physiology: Accurately assign human anatomy and physiology codes based on diagnoses and procedures. 3. Health Information Management: Practicing the role of medical coding within the broader context of health information management and its significance in healthcare delivery. 4. ICD-10-CM Coding: Mastering the use of the International Classification of Diseases, 10th Edition, Clinical Modification (ICD-10-CM) to accurately code diagnoses. 5. ICD-10-PCS/CPT Coding: Proficiency in assigning codes using the ICD-10 Procedure Coding System (ICD-10-PCS) and Current Procedural Terminology (CPT) for procedures and services. 6. Modifiers and Compliance: Application of modifiers and compliance with official coding guidelines to ensure accurate and ethical coding practices. 7. Coding Accuracy and Speed: Developing the ability to accurately assign codes within a reasonable timeframe to maintain efficiency in a healthcare setting.

	8. Chart Review and Analysis: Practicing chart review techniques to extract necessary information for coding and ensuring completeness and accuracy of medical records. 9. Coding Software Proficiency: Familiarity and proficiency in utilizing coding software and tools commonly used in healthcare facilities. 10. HIPAA Compliance: Adhering to Health Insurance Portability and Accountability Act (HIPAA) regulations in coding practices. 11. Ethical Coding Practices: Adhering to professional ethics and standards while assigning codes and handling sensitive patient information. 12. Coding Audits and Quality Improvement: Practicing the role of coding audits in maintaining coding accuracy and contributing to quality improvement initiatives. 13. Interdisciplinary Collaboration: Recognizing the collaborative nature of healthcare and effectively communicating with healthcare professionals to ensure accurate documentation and coding.

TABLE 2: MODULE WISE COURSE CONTENT AND OUTCOME

SL.NO	MODULE NAME	MODULE CONTENT	MODULE LEARNING OUTCOME	DURATION (HRS)
1	Module 1 (Sessions 1-4)	Introduction to Medical Coding	• Applying the foundational concepts and importance of medical coding in healthcare documentation. • Identify the various coding systems (ICD 10-CM, ICD-10-PCS, CPT) and their purposes in healthcare.	5

2	Module 2: (Sessions 5-8)	Medical Terminology and Anatomy	• Acquire proficiency in medical terminology, abbreviations, and anatomical terms relevant to coding. • Demonstrate an understanding of human anatomy and physiology crucial for accurate coding.	5
3	Module 3: (Sessions 9-16)	ICD-10-CM Coding	• Master the use of ICD-10-CM for accurate diagnosis coding. • Apply coding guidelines and conventions to assign appropriate diagnosis codes.	5
4	Module 4: (Sessions 17-24)	ICD-10-PCS and CPT Coding	• Gain proficiency in assigning procedure codes using ICD-10-PCS and CPT coding systems. • Interpret and apply guidelines specific to procedural coding accurately.	5
5	Module 5: (Sessions 25-28)	Modifiers, Compliance, and Coding Ethics	• Appropriate application of modifiers in coding. • Adhere to coding compliance and ethical standards in healthcare documentation.	5
6	Module 6: (Sessions	Coding Software and Tools	• Utilize coding software	5

	29-32)		effectively for accurate code assignment and documentation. ● Navigate and use common tools and resources for coding and reference.	
7	Module 7: (Sessions 33-38)	Coding Practice and Case Studies	● Apply coding skills to practical scenarios and case studies across various medical specialties. ● Analyze patient charts to extract relevant information for coding purposes.	5
8	Module 8: (Sessions 39-42)	Quality Assurance and Auditing	● Reinstating importance of coding accuracy and its impact on healthcare quality. ● Perform coding audits and quality checks to ensure accuracy and compliance.	5
9	Module 9: (Sessions 43-45)	Professional Communication and Collaboration	● Communicate effectively with healthcare professionals to clarify documentation for accurate coding. ● Demonstrate clear reporting and documentation practices in coding.	5

TABLE 3: OVERALL COURSE LEARNING OUTCOME ASSESSMENT CRITERIA AND USECASES		
LEARNING OUTCOME	**ASSESSMENT CRITERIA**	**USECASES**
1. Mastery of Coding Systems	Accuracy in coding assignments, demonstrated through quizzes, assignments, and case studies.	Demonstrate proficiency in utilizing ICD-10-CM, ICD-10- PCS, and CPT coding systems to accurately assign diagnoses and procedures.
2. Medical Terminology and Anatomy Proficiency	Recognition of terms and anatomical structures in coding scenarios, evaluated through quizzes and practical exercises.	Apply comprehensive knowledge of medical terminology and anatomy to interpret healthcare documentation for coding purposes.
3. Ethical Coding Practices and Compliance	Completion of compliance-related assignments, understanding of HIPAA regulations, and ethical decision-making in case studies.	Adhere to ethical standards and compliance regulations while handling sensitive patient information and assigning codes.
4. Critical Thinking and Problem-Solving Skills	Solve coding problems, demonstrate critical thinking through case-based assessments and coding simulations.	Analyze patient charts and case studies to accurately assign codes and resolve coding-related issues effectively.
5. Effective Communication and Collaboration	Participation in communication exercises, role-plays, or presentations involving healthcare teams.	Communicate clearly and collaborate with healthcare professionals to ensure accurate documentation and coding.

TABLE 4: LIST OF FINAL PROJECTS (20 PROJECTS THAT COMPREHENSIVELY COVER ALL THE LEARNING OUTCOME)

SL.NO	FINAL PROJECT
1	**1. Coding System Proficiency Evaluation** Objective: Assess mastery of coding systems (ICD-10-CM, ICD-10-PCS, CPT). Project: Assign a series of complex medical cases spanning diverse specialties, requiring accurate code assignment across different coding systems.
2	**2. Medical Terminology Mastery Test** Objective: Validate proficiency in medical terminology and anatomical understanding. Project: Provide a comprehensive exam testing students' knowledge and interpretation of medical terms and anatomical structures in coding contexts.
3	**Ethical Coding Practices Case Studies** Objective: Evaluate adherence to ethical coding standards and compliance regulations. Project: Present case studies focusing on ethical dilemmas in coding, requiring students to navigate scenarios while maintaining compliance and ethical standards.
4	**Critical Thinking and Problem-Solving Challenges** Objective: Assess critical thinking and problem-solving abilities in coding scenarios. Project: Design complex coding puzzles or scenarios where students need to resolve discrepancies, apply guidelines, and justify their code assignments.
5	**Communication and Team Collaboration Exercise** Objective: Evaluate communication skills and collaboration within healthcare teams. Project: Simulate a scenario where students interact with various healthcare professionals, discussing and clarifying coding and documentation requirements.

6	**Chart Review and Coding Simulation** Objective: Test accuracy and speed in coding and chart review. Project: Offer a timed simulation mimicking a real clinical setting, requiring students to accurately assign codes based on provided patient charts.
7	**Coding Ethics Audit and Compliance Assessment** Objective: Demonstrate knowledge and application of ethical coding practices. Project: Conduct a coding ethics audit on a set of medical records, identifying compliance issues and suggesting corrective actions.
8	**Quality Improvement Plan Development** Objective: Showcase skills in improving coding accuracy and quality. Project: Create a comprehensive plan outlining strategies to enhance coding accuracy, reduce errors, and improve documentation quality in a healthcare facility.
9	**Communication Plan for Coding Teams** Objective: Illustrate effective communication strategies within coding teams. Project: Develop a communication plan detailing how coding teams should interact, share information, and resolve coding-related queries efficiently.
10	**Coding Software Proficiency Evaluation** Objective: Demonstrate proficiency in using coding software/tools. Project: Provide tasks where students utilize coding software to code various medical scenarios, emphasizing speed and accuracy.
11	**Coding Compliance Training Program** Objective: Show understanding and teaching capability regarding compliance regulations. Project: Develop a training program educating coding professionals on compliance regulations, ethical practices, and legal requirements in coding.

12	**Capstone Coding Challenge** Objective: Integrate all learned skills and knowledge into a final comprehensive project. Project: Present a capstone project incorporating various elements—coding accuracy, ethical considerations, communication strategies, and compliance aspects—across different medical specialties.

TABLE 5: COURSE ASSESSMENT RUBRICS (TOTAL MARKS: 75)				
ASSESSMENT CRITERIA	**DESCRIBE THE CRITERIA OF THE BELOW CATEGORY PERFORMANCE**			**TOTAL MARKS**
	FAIR	**GOOD**	**EXCELLENT**	
1. Introduction to Medical Coding (Total Marks: 10)	50	60	75	75
2. Proficiency in Coding Systems (Total Marks: 12)	50	60	75	75
3. Medical Terminology and Anatomy (Total Marks: 10)	50	60	75	75
4. Ethical Coding Practices and Compliance (Total Marks: 10)	50	60	75	75
5. Critical Thinking and Problem Solving in Coding (Total Marks: 10)	50	60	75	75

6.Communication and Team Collaboration (Total Marks: 8)	50	60	75	75
7. Coding Audits and Quality Improvement (Total Marks: 7)	50	60	75	75
8. Capstone Project and Presentation (Total Marks: 8)	50	60	75	75