

VALUE ADDED COURSE

For the academic year 2018-19

CMS COLLEGE KOTTAYAM (AUTONOMOUS)

in association with

INTERNATIONAL INSTITUTE OF MEDICAL CODING





Course	Details						
Code	ZYA1816	03					
Title	Advanced Diploma in Medical Coding						
Degree	Undergraduate						
Branch(s)	Zoology	Zoology					
Year/Semester	III/ V&VI	III/ V&VI					
Type	Add on course						
Credits	8	Hrs/Week	4	Total hours	144		

	Objectives
1	
	To develop expertise in the various aspects of medical coding so as to compete with international arena to pursue their carrier
2	Strengthen the students to get job in reputed international organizations

CO No.	Expected Course Outcomes Upon completion of this course, the students	Cognitive Level	PSO No.
1.	will be able to Understand Anatomy and Physiology and explain the relationship between Anatomy and Physiology	U	3
2.	Analyze and synthesize their knowledge and skills to create effective anatomy teaching and learning tools	An	4
3	Understand the uniform reporting on claims or services that are medical in nature	U	4
4	Apply coding system to identify products, supplies and services	Ap	4
5	Apply anatomical terms to medical/surgical procedural coding.	Ap	4
7	Explain the use of General Equivalence Mappings (GEMS) in the coding transitions Program Specific outcome: CO-Course Outcome:	U	4

*PSO-Program Specific outcome; CO-Course Outcome; Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E- Evaluate; C-Create

	Teaching and Evaluation Methods					
Teaching Methodology	Contact classes, ICT enabled teaching, Hands-on training					
	Group discussions, Case studies, Field visit, workshops,					
	Training in reputed institution in the concerned area					
Evaluation Methodology	Written examination based on the syllabus, Practical and viva					

Module	Course Description	Total Hrs	CO No.
1	Human Anatomy & Physiology	36	110.
1.1	Introduction to Body Structure and Medical Terminology	3hrs	1
1.2	Dermatology: The Skin	3 hrs	1
1.3	Ophthalmology: The Eyes	3 hrs	1
1.4	Otorhinolaryngology: The Ear, Nose, and Throat	3 hrs	1
1.5	Pulmonology: The Respiratory System	3 hrs	1
1.6	Cardiology: The Cardiovascular System	3 hrs	1
1.7	Gastroenterology: The Digestive System	3 hrs	1
1.8	Obstetrics and Gynecology: The Female Reproductive System	3 hrs	1
1.9	Urology and Nephrology: The Genitourinary System	3 hrs	1
1.11	Orthopedics: The Musculoskeletal System	3 hrs	2
1.12	Neurology and Psychiatry	3 hrs	2
1.13	Endocrinology and Metabolic Homeostasis	3 hrs	2
2	Healthcare Common Procedure Coding Systems (HCPCS)	36	
2.1	Introduction	1 hr	3
2.2	Symbols and Conventions	1 hr	3
2.3	Instructions for Using This Manual	1 hr	3
2.4	HCPCS Coding Procedures	1 hr	4
2.5	New/Revised/Deleted Codes for 2018	1 hr	3
2.6	Deleted Codes Crosswalk	1 hr	3
2.7	G Codes to CPT Codes	1 hr	4
2.8	Anatomical Illustrations	1hr	3

2.9	Index to Services, Supplies, Equipment, Drugs	1 hr	4
2.10	Tabular List	1hr	3
2.11	Transportation Service Including Ambulance	1hr	3
2.12	Medical and Surgical Supplies	1hr	3
2.13	Administrative, Miscellaneous and Investigational	1hr	4
2.14	Enteral and Parental Therapy	1hr	3
2.15	Outpatient PPS	1 hr	3
2.16	Durable Medical Equipment	1 hr	3
2.17	Procedures/Professional SErvices	1hr	3
2.18	Alchohol and Drug Abuse Treatment	1 hr	3
2.19	Drugs Administered Other than Oral Method	1hr	4
2.20	Chemotherapy Drugs	1hr	3
2.21	Durable medical equipment	1 hr	3
2.22	Ortholic Procedures	1 hr	3
2.23	Prosthetic Procedure	1.5hrs	3
2.24	Medical services	1.5 hrs	3
2.25	Pathology and laboratory services	1.5 hrs	3
2.26	Temporary Codes	1.5 hrs	4
2.27	Diagnostic Radiology	1.5 hrs	3
2.28	Temporary National codes	1.5 hrs	3
2.29	National Codes Established for State Medicaid Agencies	1.5 hrs	3
2.30	Vision Services	1.5 hrs	3
2.31	Hearing Services	1hr	3
2.32	Appendix A to I	1hr	3
3	Medical Coding Current Procedural Terminology(CPT)	36	
3.1	Introduction	1 hr	5

3.2	Illustrated Anatomical and Procedural Review	2 hrs	5
3.3	Evaluation and Management (E/M) Service Guidelines	3 hrs	5
3.4	Evaluation and Management	3 hrs	5
3.5	Anesthesia Guidelines	3 hrs	5
3.6	Anesthesia	3 hrs	5
3.7	Surgery Guidelines	3 hrs	5
3.8	Surgery	3 hrs	5
3.9	Radiology Guidelines (Including Nuclear Medicine and Diagnostic Ultrasound)	3 hrs	5
3.10	Radiology	3hrs	5
3.11	Pathology and Laboratory Guidelines	3 hrs	5
3.12	Pathology and Laboratory	3 hrs	5
3.13	Medical Guidelines	3 hrs	5
4	Medical Coding- International statistical Classification of Diseases (ICD-10 CM)	36	
4.1	Preface Preface	1 hr	6
4.2	List of Features	1 hr	6
4.2	List of Features Practical Steps of Using ICD CM Book	1 hr	6
4.3	Practical Steps of Using ICD CM Book	1 hr	6
4.3	Practical Steps of Using ICD CM Book Symbols and Conventions	1 hr 1 hr	6
4.3 4.4 4.5	Practical Steps of Using ICD CM Book Symbols and Conventions Anatomical Illustations	1 hr 1 hr 1 hr	6 6
4.3 4.4 4.5 4.6	Practical Steps of Using ICD CM Book Symbols and Conventions Anatomical Illustations ICD -10 CM	1 hr 1 hr 1 hr 1 hr	6 6 6
4.3 4.4 4.5 4.6 4.7	Practical Steps of Using ICD CM Book Symbols and Conventions Anatomical Illustations ICD -10 CM Certain Infectious and Parasitic Diseases Neoplasms Diseases of the Blood and Blood -Forming Organs and Certain Disorders Involving the Immune	1 hr 1 hr 1 hr 1 hr 1 hr	6 6 6 6
4.3 4.4 4.5 4.6 4.7 4.8	Practical Steps of Using ICD CM Book Symbols and Conventions Anatomical Illustations ICD -10 CM Certain Infectious and Parasitic Diseases Neoplasms Diseases of the Blood and Blood -Forming Organs	1 hr 1 hr 1 hr 1 hr 1 hr 2 hrs	6 6 6 6
4.3 4.4 4.5 4.6 4.7 4.8 4.9	Practical Steps of Using ICD CM Book Symbols and Conventions Anatomical Illustations ICD -10 CM Certain Infectious and Parasitic Diseases Neoplasms Diseases of the Blood and Blood -Forming Organs and Certain Disorders Involving the Immune Mechanism	1 hr 1 hr 1 hr 1 hr 1 hr 2 hrs	6 6 6 6 6

Diseases of the Eye and Adnexa	2hr	6
Diseases of the Ear and Mastoid Process	1 hr	6
Diseases of the Circulatory System	1hr	6
Diseases of the Respiratory System	2 hrs	6
Diseases of the Digestive System	1hr	6
Diseases of the Skin and Subcutaneous Tissue	1 hr	6
Diseases of the Musculoskeletal System and Connective Tissue	1 hr	6
Diseases of the Genitourinary System	1 hr	6
Pregnancy, Childbirth and the Puerperium	1 hr	6
Certain Conditions Originating in the Perinatal Period	1 hr	6
Congenital Malformations, Deformations, and Chromosomal Abnormalities	2hrs	6
Symptoms, Signs, and Abnormal clinical and Laboratory Findings, Not elsewhere classified	2 hrs	6
Injury, Poisoning, and Certain other Consequences of External Causes	2 hr	6
External Cause of Morbidity	1 hr	6
Factors Influencing Health Status and Contact with Health Services	1 hr	6
Appendix A	1hr	6
Appendix B	1 hr	6
	Diseases of the Ear and Mastoid Process Diseases of the Circulatory System Diseases of the Respiratory System Diseases of the Digestive System Diseases of the Skin and Subcutaneous Tissue Diseases of the Musculoskeletal System and Connective Tissue Diseases of the Genitourinary System Pregnancy, Childbirth and the Puerperium Certain Conditions Originating in the Perinatal Period Congenital Malformations, Deformations, and Chromosomal Abnormalities Symptoms, Signs, and Abnormal clinical and Laboratory Findings, Not elsewhere classified Injury, Poisoning, and Certain other Consequences of External Causes External Cause of Morbidity Factors Influencing Health Status and Contact with Health Services Appendix A	Diseases of the Ear and Mastoid Process I hr Diseases of the Circulatory System Diseases of the Respiratory System Diseases of the Digestive System Diseases of the Skin and Subcutaneous Tissue Diseases of the Musculoskeletal System and Connective Tissue Diseases of the Genitourinary System I hr Pregnancy, Childbirth and the Puerperium Certain Conditions Originating in the Perinatal Period Congenital Malformations, Deformations, and Chromosomal Abnormalities Symptoms, Signs, and Abnormal clinical and Laboratory Findings, Not elsewhere classified Injury, Poisoning, and Certain other Consequences of External Causes External Cause of Morbidity I hr Factors Influencing Health Status and Contact with Health Services Appendix A Ihr

REFERENCES

- 1. Federative Committee on Anatomical Terminology (2008). Terminologia Histologica International Terms for Human Cytology and Histology. Cardiff: Lippincott Williams & Wilkins.
- 2. Anatomy of the Human Body". Henry Gray. 20th Edition. 1918
- 3. Introduction to Medical Terminology, Ann Ehrlich, Carol L. Schroeder 3rd Edition, 2014
- 4. Anthony's Textbook of Anatomy & Physiology, 21st Edition, 2018, Kevin Patton Gary Thibodeau
- 5. McMinn and Abrahams' Clinical Atlas of Human Anatomy, 7th Edition, 2013, Peter H. Abrahams
- 6. HCPCS Level II Professional Edition, 2016, Carol J. Buck.
- 7. Express Reference Card-CPT & HCPCS Modifiers 2018, American Medical Association.
- 8. 2015 HCPCS Level II Professional Edition, Carol Buck.

- 9. HCPCS Level II Professional 2014, Optum.
- 10. 2010 HCPCS Level II (Professional Edition), Carol J. Buck
- 11. CPT2009: Current Procedural Terminology, Michael Beebe; American Medical Association. 2008.
- 12. Cpt 94: Physicians' Current Procedural Terminology, Celeste G. Kirschner, Robin C. Burkett, Judy A. Coy, 1993.
- 13. Workbook for Step-by-Step Medical Coding, 2018 Edition, Carol J. Buck MS CPC CCS-P.
- 14. CPT 2017 Professional Edition, American Medical Association.
- 15. Centore, Anthony. "2013 CPT Code Revisions".
- 16. ICD-10, Edition 1992, UNAIDS World Health Organization.
- 17. ICD-9-CM Inpatient Coding Reference and Study Guide, Linda Kobayashi.
- 18. Coders' Desk Reference for ICD-9-CM Procedures 2014, Optum.
- 19. Principles and Practice of ICD-10 Coding, 2008 Dhirendra Verma , Mohamed ElSayed Ali
- 20. 2018 ICD-10-CM 1st Edition, 2017, Carol J. Buck.

List of Students (2018-2019)

- 1) Amala Chacko
- 2) Ananthakrishnan
- 3) Aniemma K Joseph
- 4) Ashitha C Dileep
- 5) Jinson Jacob
- 6) Dhanest M T
- 7) Mahesh Krishnan
- 8) Neenu Ann Mathew
- 9) Sandra V P
- 10) Stinumol T S
- 11) Akhila Thankachan
- 12) Arjun Santhosh
- 13) Bindhuja V
- 14) Jinson James
- 15) Nandu Ajith
- 16) Sobith M Shaji
- 17) Amal Jagadeesh
- 18) Animol Gracy James

Department of Zoology, CMS College, Kottayam Value Added Course on Medical Coding (2018-2019)

List of Students

				1413	110/12	11/12	12/13	12/13	1,41
	Name of the student	31	6/13	14/	-	1	-	-	٦
1	Amala Chacko	-	_	-	-		-	-	-
2	Ananthakrishnan	-		1	<u></u>			10	1
3	Aniemma K Joseph	_			<u> </u>		-		-
4	Ashitha C Dileep	a		1-	-			-	a
5	Jinson Jacob	/		_ a		-	-	-	-
5	Dhanest M T	1		1		-	-	-	
,	Mahesh Krishnan	_	-	-	-	-		-	-
3	Neenu Ann Mathew	~	-		-	-	-		
9	Sandra V P	/		-					-
10	Stinumol T S	1				_	_	-	
11	Akhila Thankachan	/		-	<u>a</u>		-	_	
12	Arjun Santhosh	/	-		-			_	-
13	Bindhuja V	/			-		1	_	-
14	Jinson James			-	-				-
15	Nandu Ajith			1	-		_	-	-
6	Sobith M Shaji	_		1-	-	-		/	-
7	Amal Jagadeesh			-	-		_	-	-
8	Animol Gracy James								

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List of Students

Name of the student	14/1	20/11	32/11	20/11	24/11	14/12	74/2-	3/1	*//*
Amala Chacko	1	-	1	1	-	-	-	_	1
Ananthakrishnan	-	-	1	-	~	~	~	~	1
Aniemma K Joseph	1	~	1	1	~	-	1	~	~
Ashitha C Dileep	~	~	~	1	~	~	-	~	-
Jinson Jacob	~	~	V	-	-	~	α.	~	-
Dhanest M T	-	•	/	~		a	~	-	-
Mahesh Krishnan	~	-	1	-	_	~	_	a	_
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Sandra V P	-	~	~	-			_	-	_
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Akhila Thankachan	1	~	~	~		~	~	-	~
Arjun Santhosh		~	-	~	-		レ	-	
Bindhuja V	-	/	•		-		レ	~	_
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Nandu Ajith	~		~	~		_	レ	~	
Sobith M Shaji	-	~	~	A	ー	~	-	-	_
Amal Jagadeesh	1	~	-	V.	_	_	_	-	~
nimol Gracy James	1 -	~	-	-		~	_		-

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List of Students

	25/10/	T	. (0	110				"	
Name of the student	25/10	25/10	30/10	30/10	x_{ij}	10/11	13/11	14/1	16/
Amala Chacko	~	~	V	~	V	~	-	V	V
Ananthakrishnan	~	4	A	~	-	1	^	~	0
Anlemma K Joseph	~	/	~	~	~	~	-	-	-
Ashitha C Dileep	V	-	~	-	V	-	V	-	U
Jinson Jacob	~	"	-	-	17	-	0,	V	~
Dhanest M T	~	~	V	~	~	1	V	-	~
Mahesh Krishnan	1	~	~	1	-	-	-	-	V
Neenu Ann Mathew	V	~	-	1	1	V	V	-	~
Sandra V P	_ v	•	1	~	4	-	-	~	-
Stinumol T S	-	-	~	~	-	-	-	-	-
Akhila Thankachan		~	-	~	-		-	レ	~
Arjun Santhosh		V	س	-	4	V	-	V	~
Bindhuja V		-	~	~	V	-	4	~	-
Jinson James		-	-	_	V-	/	~	~	~
Nandu Ajith	~	-	~	~	n,	~	4	-	~
Sobith M Shaji	~	•	_	~	V		V	~	1
Amal Jagadeesh		~	-	-	~	~	~	-1	-
Animol Gracy James			~	~	-	V		V	-

Surama Oburan

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Report on Value added programme-Diploma in Medical coding 2018-19

Course offered by- Department of Zoology, CMS College Kottayam (Autonomus) and IIMC Kottayam

Course offered to- III year B.Sc. Zoology students

The value added program offered by the Department of Zoology and IIMC Kottayam on Medical coding for final year B.Sc. Zoology students began on 1st October 2018. The course was designed with 144 hours of both theory and practical to develop expertise in the field of medical coding and billing. A total of 18 students enrolled for the programme.

Students were given training by CPC certified faculties using interactive modules, specific quizzes, self evaluations and e- handouts. The course was structured to help the students develop a strong base in human anatomy and medical terms.

Mock interviews were also conducted to equip the students for job application and placement.

The course was completed on April, 2019.

13 students were successfully placed on the due completion of the course after attending exam and interviews.

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