CURRICULUM

Proficiency Certificate Level in Acupuncture, Acupressure and Moxibustion

(Three Year Program – Yearly System)



Council for Technical Education and Vocational Training

Curriculum Development and Equivalence Division

Sanothimi, Bhaktapur
Developed, 2007
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Council for Technical Education and Vocational Education (CEVT)
Sanothimi, Bhaktapur, Nepal

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Introduction:

The Government of Nepal has called for the provision of basic health service to all people by establishing and expanding a network of health services in all over Nepal. In this regard, the Council for Technical Education and Vocational Training (CTEVT) has been contributing nation through preparing different types of middle level health professionals.

The council for Technical Education and Vocational Training (CTEVT) has been developing and implementing different types of health science related diploma (certificate) level curricular programs. This Proficiency Certificate level in Acupuncture, Acupressure and Moxibustion (AAM) curricular program is designed to produce middle level Acupuncture, Acupressure and Moxibustion health professionals. Furthermore, after certification such graduates would provide quality health services in different levels of health service centers (hospitals, clinics, nursing homes PHCCs and HPs) in the Nepal and aboard.

The use of acupuncture, acupressure and moxibustion is part of Traditional Chinese Medicine (TCM). TCM is a medical system that has been used for thousands of years to prevent, diagnose, and treat disease. National level documents in health sectors of Nepal have mentioned various traditional systems of medicine differently. Furthermore, the guideline prepared by the MoHP (2061) has recognized Acupuncture/Acupressure along with Ayurveda, Naturopathy, Homeopathy, and Unani as traditional systems of medicine (Source: Country Monographs on Traditional System of Medicine, 2007). In this context, the council for technical Education and Vocational training has been offering this Certificate level program in Acupuncture, Acupressure and Moxibustion curricular program.

Rationale of update:

Certificate in acupuncture, acupressure and moxibustion curriculum was developed in 2007. After a long period, it was revised in 2021 with the goal of adjusting subject areas and making the curriculum more practical, practice-oriented, and technology-driven. This is the first update after the implementation of its development. The current updates are based on feedback from academic experts, industry professionals, and students, and are summarized as follows:

- The First-Year curriculum has been aligned with other health programs through a 35academic weeks and incorporation of credit hours in the course structure. The Second
 and Third Years will also be adjusted similarly. Therefore, to accommodate these
 changes, subject content was revised based on complexity, relevance, and to eliminate
 duplication across courses.
- The curriculum was reformatted to APA style, with corrections made to spelling and typographical errors to enhance clarity and standardization.

Furthermore, technicians are projected to grow faster than the average for all occupations. Jobs for AAM are projected to increase at a faster-than-average rate. With the advent in technology, the onset of multiple and complicated diseases growing in the world, and expansion of research works trained health professionals are needed throughout the world for providing quality health services in different levels of health service centers (hospitals, clinics, nursing homes and PHCs).

To cope with the national and international demands, the knowledge and skills of this curricular program should be updated to make the skills relevant and pertinent to the industry.

Curriculum Title:

The tittle of this curricular program is PCL in Acupuncture, Acupressure and Moxibustion (AAM).

Program Aim:

The program of program is to prepare middle level skilled health professionals' discipline and having equipped with knowledge, skills and attitudes of Acupuncture, Acupressure and Moxibustion discipline with the perspectives to providing diagnostic, curative, preventive and promotive health care services to the individuals.

Program Objectives:

The program has following objectives to:

- 1. Provide diagnostic, curative, preventive and promotive health care services to the individuals through acupuncture, acupressure and moxibustion technique;
- 2. Perform necessary diagnostic data compiling through accurate employment of the various examinations' tools both of Chinese Medicine and Western Medicine;
- 3. Apply critical thinking for disease diagnosis and management during the service delivery;
- 4. Develop leadership quality in the students for better health promotion and health programming;
- 5. Follow the quality standards set by the organization during the time of service providing;
- 6. Apply contemporary professional, ethical and legal standards in service delivery;
- 7. Recognize emergency situations and take appropriate action;
- 8. Develop the positive attitudes towards the professional career with greater initiative and self-confidence; and
- 9. Start up their own enterprises and create employment opportunities for others.

Program Description:

This course is based on the job required to perform by the middle level acupuncture, acupressure and moxibustion health professional in different levels of health service centers (hospitals, clinics, nursing homes PHCCs and HPs). This curricular program extends over three years. The first year focuses on core and academic courses. The acupuncture, acupressure and moxibustion related disciplinary courses are offered in second year. Similarly, the third year comprises of some disciplinary courses along with application learned skills and knowledge. Additionally, within the comprehensive clinical and community field practices-based workplace learning program is offered in third year.

Group Size:

The group size will be maximum of 40 (forty) in a batch.

Entry Criteria:

- Should pass SLC or SEE, Grade-10 pass with minimum GPA 2.0 and C grade in Compulsory Mathematics, English & Science.
- Must satisfy all eligibility criteria required by the Office of the Controller of Examinations, CTEVT.

Duration:

The total duration of this curricular program is three years. The program is based on yearly system. Moreover, one academic year consists of 35 academic weeks and one academic week consists up to 40 hours excluding evaluation period.

Medium of Instruction:

The medium of instruction will be in English and/or Nepali.

Pattern of Attendance:

Minimum of 90% attendance in each subject is required to appear in the respective final examination.

Teacher and Student Ratio:

The ratio between teachers and students must be:

- Overall ratio of teacher and student must be 1:10 (at the institution level)
- 1:40 for theory and tutorial classes
- 1:10 for practical classes

Qualification of Teachers and Demonstrators:

- The program coordinator should be a master's degree in the related area.
- The disciplinary subject related teachers and demonstrators should be a bachelor's degree holder in the related area.
- The foundational subject related teacher should be master degree holder in the related area.

Instructional Media and Materials:

The following instructional media and materials are suggested for the effective instruction and demonstration.

- **Printed Media Materials:** Assignment sheets, Hand-outs, Information sheets, Individual training packets, Procedure sheets, Performance Check lists, Textbooks etc.
- Non-projected Media Materials: Display, Model, Flip chart, Poster, Writing board etc.
- Projected Media Materials: Opaque projections, Overhead transparencies, Slides etc.
- Audio-Visual Materials: Audiotapes, Films, Slide-tape programs, Videodiscs, Videotapes etc.
- Computer-Based Instructional Materials: Computer-based training, Interactive video
- Web-Based Instructional Materials: Online learning
- Radio/Television/Telephone
- Education-focused social media platform

Teaching Learning Methodologies:

The methods of teachings for this curricular program will be a combination of several approaches such as; Illustrated Lecture, Panel Discussion, Demonstration, Simulation, Group work, Guided practice, Practical experiences, Fieldwork, Community practice, Hospital practice, Report writing, Term paper presentation, Case analysis, Tutoring/coaching, Role-playing, Assignment, Heuristic, Project work and other independent learning.

Theory: Illustrated lecture Discussion, Seminar, Interaction, Assignment, and Group work.

Practical: Demonstration, Observation, Guided practice, Self-practice, Project work, Hospital practice and Community practice under supervision.

Mode of Education:

There will be inductive, deductive and learner-centered approaches of education.

Examination and Marking Scheme:

a. Internal assessment

- There will be a transparent/fair evaluation system for each subject both in theory and practical exposure.
- Each subject will have internal assessment at regular intervals and students will get the feedback about it.
- Weightage of theory and practical marks are mentioned in curriculum structure.
- Continuous assessment format will be developed and applied by the evaluators for evaluating student's performance in the subjects related to the practical experience.

b. Final examination

- Weightage of theory and practical marks are mentioned in structure.
- Students must pass in all subjects both in theory and practical for certification. If a student becomes unable to succeed in any subject s/he will appear in the reexamination administered by CTEVT.
- Students will be allowed to appear in the final examination only after completing the internal assessment requirements.

c. Requirement for final practical examination

- Professional of relevant subject instructor must evaluate final practical examinations.
- One evaluator in one setting can evaluate not more than 20 students.
- Practical examination should be administered in actual situation on relevant subject with the provision of at least one internal evaluator from the concerned constituent or affiliated institute led by external evaluator nominated by CTEVT.
- Provision of re-examination will be as per CTEVT policy.

d. Final practicum evaluation will be based on:

- Institutional practicum attendance 10%
- Logbook/Practicum book update 10%
- Spot performance (assigned task/practicum performance/identification/arrangement preparation/measurement) 40%
- Viva voce:
 - Internal examiner 20%
 - External examiner 20%

e. Pass marks:

• The students must secure minimum 40% marks in theory and 50% marks in practical. Moreover, the students must secure minimum pass marks in the internal assessment and in the semester final examination of each subject to pass the subject.

Provision of Back Paper:

There will be the provision of back paper but a student must pass all the subjects of all year within six years from the enrollment date; however, there should be provision of chance exam for final year students as per CTEVT rules.

Disciplinary and Ethical Requirements:

- Intoxication, insubordination or rudeness to peers will result in immediate suspension followed by the review of the disciplinary review committee of the institute.
- Dishonesty in academic or practical activities will result in immediate suspension followed by administrative review, with possible expulsion.
- Illicit drug use, bearing arms in institute, threats or assaults to peers, faculty or staff will result in immediate suspension, followed by administrative review with possible expulsion.

Grading System:

The following grading system will be adopted:

• Distinction: 80% and above

• First division: 65% to below 80%

• Second division: 50 % to below 65%

• Pass division: Pass marks to Below 50%

Certification and Degree Awards:

- Students who have passed all the components of all subjects of all 3 years are considered to have successfully completed the course.
- Students who have successfully completed the course will be awarded with a degree of "Proficiency Certificate Level (PCL) in Acupuncture, Acupressure and Moxibustion."

Career Path:

The graduates will be eligible for the position equivalent to non-gazette 1st class/Level 5 (technical) as prescribed by the Public Service Commission of Nepal and other related agencies. The graduate will be eligible for registration with the related Council in the grade as provisioned in the related Council Act (if any).

General Attitudes Required:

A student should demonstrate following general attitudes for effective and active learning: Acceptance, Affectionate, Ambitious, Aspiring, Candid, Caring, Change, Cheerful, Considerate, Cooperative, Courageous, Decisive, Determined, Devoted, Embraces, Endurance, Enthusiastic, Expansive, Faith, Flexible, Gloomy, Motivated, Perseverance, Thoughtful, Forgiving, Freedom, Friendly, Focused, Frugal, Generous, Goodwill, Grateful, Hardworking, Honest, Humble, Interested, Involved, Not jealous, Kind, Mature, Open minded, Tolerant, Optimistic, Positive, Practical, Punctual, Realistic, Reliable, Distant, Responsibility, Responsive, Responsible, Selfconfident, Self-directed, Self-disciplined, Self-esteem, Self-giving, Self-reliant, Selfless, Sensitive, Serious, Sincere, Social independence, Sympathetic, Accepts others points of view, Thoughtful towards others, Trusting, Unpretentiousness, Unselfish, Willingness, Work-oriented.

Curriculum Structure

Proficiency Certificate Level in Acupuncture, Acupressure and Moxibustion

First Year

				Teac	hing	Scheme		Examination Scheme							
			Mode			Theory Practical						Total			
S. N	Subjects		1710	ue		Hours/	Credit	Assmt.	Final		Assmt.	Final		- Marks	Remarks
		L	T	P	L/ C	Week	HAIIPE	Marks	Marks	Time (hrs.)	Marks	Marks	Time (hrs.)	Iviai Ks	
1	English	3				3	3	20	80	3				100	
2	Nepali	3				3	3	20	80	3				100	
3	Social Studies	2				2	2	10	40	1.5				50	
4	Anatomy & Physiology	4				4	4	20	80	3				100	
5	Physics	4			2	6	5	20	80	3	30	20	1.5	150	
6	Chemistry	4			2	6	5	20	80	3	30	20	1.5	150	
7	Zoology	3			2	5	4	20	80	3	30	20	1.5	150	
8	Botany	3			2	5	4	20	80	3	30	20	1.5	150	
9	Mathematics & Statistics	4	1		1	6	5	20	80	3	25			125	
	Total	30	1		9	40	35	170	680		145	80		1075	

Second Year

				Teac	hing	Scheme			ŀ						
			Mo	de			Theory Practical						Total		
S. N	Subjects		1710			Hours/	Credit	Assmt.	Final		Acemt	Fi	<u>nal</u>	Marks	Remarks
		L	T	P	L/ C	Week		Marks	Marks	Time (hrs.)	Assmt. Marks	Marks	Time (hrs.)	Wiaiks	
1	Concept of Moxibustion and Medicinal Plants	4		2		6	5	20	80	3	20	30	3	150	
2	Basic Theory of Oriental Medicine	4				4	4	20	80	3				100	
3	Meridians and Acupoints	4		2		6	5	20	80	3	20	30	3	150	
4	Diagnosis in Acupuncture and Moxibustion	2		2		4	3	10	40	1.5	20	30	2	100	
5	Acupressure and Therapeutic Massage	4		2		6	5	20	80	3	20	30	3	150	
6	Acupuncture and Moxibustion Therapeutics I	4		2		6	5	20	80	3	20	30	3	150	
7	Clinical Pathology	2		2		4	3	10	40	1.5	20	30	2	100	
8	Concept of General Medicine	2		2		4	3	10	40	1.5	20	30	2	100	
	Total	26		14		40	33	130	520		140	210		1000	

Third Year

				Teac	hing	Scheme			F						
			Mo	nde				Theory		Practical			Total		
S. N	Subjects		1110	-		Hours/	Credit	Assmt.	Fin	nal	Assmt.	Final		Total Marks	Remarks
		L	T	P	L/ C	Week	Hours	Marks	Marks	Time (hrs.)	Marks	Marks	Time (hrs.)	Marks	
A	In House Learning (11 Weeks*40 Hrs./Week)														
1	Clinical Methods of Acupuncture and Moxibustion	4		4		8	3	10	40	1.5	20	30	2	100	
2	Acupuncture and Moxibustion Therapeutics II	8		8		16	5	20	80	3	40	60	3	200	
3	Health Care Systems and Management	6		2		8	3	20	60	3	10	10	2	100	
4	Community Medicine	6		2		8	3	20	60	3	10	10	2	100	
	Total	24		16		40	14	70	240		80	110		500	
В	Comprehensive Field Practice/Workplace Learning (24 Weeks*40 Hrs./Week)		Dura	ation				Fie Supervi	ld/Workp isor's Asso Marks	lace essment					
5	Comprehensive Community Field Practice		4 we	eeks		40	2		50		25	25	1	100	
6	Comprehensive Clinical Practice		20 weeks		40	11		200		50	50	2	300		
	Total		20 w	eeks			13		250		75	75		400	

First Year

Refer to CURRICULUM PCL / Diploma in Health Sciences (First year)

(General Medicine, Medical Laboratory Technology, Diagnostic Radiography, Homeopathy, Ayurveda, Amchi Science, Dental Science, Ophthalmic Science, Pharmacy, Physiotherapy, Acupuncture, Acupressure & Moxibustion, Yog and Naturopathy, Ayurveda Pharmacy and Dental Laboratory Technology)

Second Year

S. N	Subjects Offered
1	Concept of Moxibustion and Medicinal Plants
2	Basic Theory of Oriental Medicine
3	Meridians and Acupoints
4	Diagnosis in Acupuncture and Moxibustion
5	Acupressure and Therapeutic Massage
6	Acupuncture and Moxibustion Therapeutics I
7	Clinical Pathology
8	Concept of General Medicine

Concept of Moxibustion and Medicinal Plants

Total: 210 hrs. (6 hrs./weeks) Theory: 140 hrs. (4 hrs./weeks) Practical: 70 hrs. (2 hrs./weeks)

Course Description:

This course is designed to introduce students the skills and knowledge about moxibustion and medicinal plants.

Course Objectives:

After completion of this course, students will be able to:

- 1. Explain the basic concept of moxibustion;
- 2. Identify, collect, transport, process and store moxa;
- 3. Prepare and apply moxa for treatment; and
- 4. Explain the basic properties of herbs; herb interaction and toxicity; essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of herb.

Course Contents:

THEORY

1111	UKY
Unit 1: Introduction of Moxibustion	Hours: 8
Sub-Unit 1: General Introduction and	Hours: 8
Actions of Moxibustion	
Objectives:	Contents:
Explain the basic concept of moxibustion	General introduction.
and its actions.	Brief History of Moxibustion.
	Actions of Moxibustion
	Warming channels and dispersing
	coldness.
	Supporting yang to resume collapse.
	Removing blood stasis and stagnation.
	Disease prevention and health
	maintenance.
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real	classroom instruction and demonstration,
	return demonstration, models, role play, real
	object
Unit 2: Classifications	Hours: 8
Sub-Unit 2.1: Classifications of	Hours: 8
Moxibustion	
Objectives:	Contents:
Classify the Moxibustion	• On the basis of materials used
	Moxibustion with moxa
	 Alternative materials for Moxibustion
	Burning caused by chemicals
	• On the basis of application
	> Moxa cone
	> Moxa stick
	> Warming needle
	> Moxa box

Teaching/Learning Activities/Resources:
classroom instruction and demonstration,
return demonstration, real objects, video.
Hours: 8
Hours: 8
Contents:
 Familiarize with the morphology. Botanical name and characteristics. Appropriate season for collection. Plant parts for collection. Precautions while collecting the moxa plant.
Teaching / Learning Activities/Resources:
classroom instruction and demonstration, return demonstration, models/real objects, videos,
Hours: 8
Contents:
 Introduction, objectives and method of packing the collected moxa plant. Precautions during packing. Transportation Management Precautions during transportation. Procedures of processing.
Teaching/Learning Activities/Resources:
classroom instruction and demonstration, return demonstration, real objects, videos, role play.
Hours: 8
Hours: 8
Contents:
Contents:
Methods of storing moxa wool
 Methods of storing moxa wool Storage of moxa leaves Introduction of moxa cone and moxa stick. Processes of preparing moxa cone and moxa stick.
 Methods of storing moxa wool Storage of moxa leaves Introduction of moxa cone and moxa stick. Processes of preparing moxa cone and moxa stick. Precautions during moxa stick preparation.
 Methods of storing moxa wool Storage of moxa leaves Introduction of moxa cone and moxa stick. Processes of preparing moxa cone and moxa stick. Precautions during moxa stick preparation. Teaching / Learning Activities/Resources:
 Methods of storing moxa wool Storage of moxa leaves Introduction of moxa cone and moxa stick. Processes of preparing moxa cone and moxa stick. Precautions during moxa stick preparation. Teaching / Learning Activities/Resources: classroom instruction and demonstration return demonstration, real objects, videos,
 Methods of storing moxa wool Storage of moxa leaves Introduction of moxa cone and moxa stick. Processes of preparing moxa cone and moxa stick. Precautions during moxa stick preparation. Teaching / Learning Activities/Resources: classroom instruction and demonstration return demonstration, real objects, videos, role play.
 Methods of storing moxa wool Storage of moxa leaves Introduction of moxa cone and moxa stick. Processes of preparing moxa cone and moxa stick. Precautions during moxa stick preparation. Teaching / Learning Activities/Resources: classroom instruction and demonstration return demonstration, real objects, videos, role play. Hours: 6

Evaluation methods: written and viva exams, performance observation in real or simulated settings. Unit 6: Basic Theory of Chinese Materia Medica Sub-Unit 6.1: Concept and Properties of Herbs	Contraindications in moxibustion. Precautions during moxibustion. Post-moxibustion care and management. Teaching / Learning Activities/Resources: classroom instruction and demonstration return demonstration, real objects, videos, role play. Hours: 20 Hours: 10
Objectives:	Contents:
Familiarize with the concept, classification and importance of herbs. Explain the properties of herbs.	 Concept of herb. Herbs classification by use: Culinary herbs Medicinal herbs Sacred herbs Cosmetic herbs Strewing herbs Importance of herbs (List)Nature and Flavor Introduction Relationship between nature and flavour (Discussion) Clinical significance of nature and flavour (Discussion) Lifting, Lowering, Floating and Sinking General concept Factors influencing Lifting, Lowering, Floating and Sinking. Meridian Affinity and how it affects the clinical application of herbs. Concept of Toxicity of herbs.
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or simulated settings.	classroom instruction and demonstration, return demonstration, models, videos, role play.
Sub-Unit 6.2: Clinical Use of Herbs Objectives:	Hours: 10 Contents:
Describe the seven facets of herb interaction and explain their clinical significance. Explain the contraindications for prescribing herbs. Describe about dosage and administration of herbs and explain the factors that determine dosage.	 Herb Interactions and its clinical significance Single Mutual Reinforcement. Assistance. Restraint. Antidote. Mutual Inhibition. Antagonism. Contraindications Incompatibility of Herbs Contraindication in Pregnancy

	Dietary Avoidance
	Dosage and Administration
	 Dosage-factor affecting dosage
	> Administration - preparation of
	decoction and its administration.
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, models, videos, role
Simulated Settings.	play.
Unit 7: Common Medicinal Herbs of	Hours:74
TCM	110015.74
Sub-Unit 7.1: Herbs That Release	Hours: 8
Exterior	nours: o
Objectives:	Contents:
Describe herbs that release exterior.	General concept of herbs that release
	exterior and their characteristics.
Familiarize with the essential information on	• Compare and contrast the actions,
the Latin name / common name, parts used,	indications of warm-acrid and cool-acrid
nature / flavor, meridian affinity, actions and	
indications, dosages, cautions and	herbs for releasing exterior.
contraindications in the use of each herb that	• Essential information on the Latin name /
release Exterior.	common name, parts used, nature / flavor,
	meridian affinity, actions and indications,
	dosages, cautions and contraindications in
	the use of each herb.
	Warm-Acrid Herbs That Release Exterior
	Mahuang (Ephedra sinica)
	Guizhi (Cinnamomum cassia)
	(Cinnamon)
	> Zisu(Perilla frutescens)
	> Sheng jiang (Zingiber officinale)
	> Cool-Acrid Herbs That Release Exterior
	> Bohe (Mentha haplocalyx) (Peppermint)
	Sangye (Morus alba) (Mulberry)
	> Juhua (Chrysanthemum morifolium)
	(Chrysanthemum)
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
	classroom instruction and demonstration
exams, performance observation in real or	
simulated settings.	return demonstration, models, videos, role
Sub Unit 7.2. Hawka That Casl Heat	play.
Sub-Unit 7.2: Herbs That Cool Heat Objectives:	Hours: 10 Contents:
Describe herbs that cool heat.	• Characteristics of herbs.
	Essential information on the Latin name /
Familiarize with the essential information on	common name, parts used, nature /flavor,
the properties, meridian affinity, actions and	1
indications, dosages and cautions and	meridian affinity, actions and indications,
contraindications in the use of each herb that	dosages and cautions and contraindications
cool heat cool heat.	in the use of each herb.
	Herbs That Cool Heat and Purge Fire
	Xiakucao (Prunella vulgaris)
	Jue Ming Zi (Cassia obtusifolia)
	Herbs That Cool Heat and Dry Dampness

Evaluation methods: written and viva exams, performance observation in real or simulated settings. Sub-Unit 7.3: Herbs That Induce	 Huanglian (Coptis chinensis) (Golden Thread) Longdancao (Gentiana scabra, triflora)(Chinese Gentian) Dang yao (Swertia chiraita) Herbs That Cool Heat and Detoxify Poison Jinyinhua (Lonicera japonica) (Honeysuckle) Mao He Zi (Terminaliae Billericae) Heat-Clearing and Blood-Cooling Herbs Shengdihuang (Rehmannia glutinosa) Mudanpi (Paeonia suffruticosa) (Tree Peony) Endogenous Heat-Cooling Herbs Qinghao (Artemisia annua, apiacea) (Wormwood) Hu Huang Lian (Picrorhiza serophulariiflora) Yu Gan Zi (Phyllanthus emblica) Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role play. Hours: 4
Catharsis	
Objectives: Describe herbs that induce catharsis. Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that induce catharsis.	 Contents: Action, Indication, Characteristics of herbs. Precautions while using. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Dahuang (Rheum palmatum, officinale) (Rhubarb) Mangxiao (Mirabilite) (Sodium Sulfate) Fanxieye (Cassia angustifolia) (Senna)
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role play.
Sub-Unit 7.4: Herbs That Dispel Wind-	Hours: 5
Dampness Objectives:	Contents:
Objectives: Describe herbs that dispel wind-dampness.	• Action, Indication, Characteristics of
Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and	 Action, indication, Characteristics of herbs. Precautions when using herbs. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications,

contraindications in the use of each herb that dispel wind-dampness. Evaluation methods: written and viva exams, performance observation in real or	dosages and cautions and contraindications in the use of each herb. > Duhuo (Angelica pubescens) > Mugua (Chaenomeles speciosa, lagenaria) (Chinese Quince) > Sangjisheng (Loranthus parasiticus) (Mulberry Mistletoe) > Jia ju (Piperis Sarmentosi) Teaching / Learning Activities/Resources: classroom instruction and demonstration,
simulated settings. Sub-Unit 7.5: Herbs That Drain Water	return demonstration, models, videos, role play. Hours: 4
and Dampness	Tiours.
Objectives:	Contents:
Describe herbs that dispel wind-dampness.	Action, Indication, Characteristics of
Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that dispel wind-dampness. Evaluation methods: written and viva exams, performance observation in real or simulated settings.	herbs. Precautions when using herbs. Essential information on the Latin name / common name, parts used, nature / flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Zexie (Alisma plantago-aquatica, orientale) (Water Plantain) Cheqianzi (Plantago asiatica) (Plantain) Yinchenhao (Artemisia capillaris) (OrientalWormwood) Zhuling (Polyporus umbellatus) Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role
Sub-Unit 7.6: Herbs That Warm Interior	play. Hours: 4
Objectives:	Contents:
Describe herbs that warm interior. Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that warm interior.	 Action, Indication, Characteristics of herbs. Precautions when using herbs. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Fuzi (Aconitum carmichaeli) (Monkshood). Rougui (Cinnamomum cassia) (Cinnamon) Ganjiang (Zingiber officinale) (Dried Ginger) Dingxiang (Syzygium caryophyllata, aromaticum) (Clove)

Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role play.
Sub-Unit 7.7: Herbs That Regulate Qi	Hours: 4
Objectives:	Contents:
Describe herbs that regulate Qi.	Action, Indication, Characteristics of
Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that regulate Qi.	 herbs. Precautions when using herbs. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Chenpi (Citrus tangerina, reticulata) (Tangerine) Zhishi (Citrus aurantium) (Immature Orange) Muxiang (Aucklandia lappa) Xiangfu (Cyperus rotundus) (Nutgrass) Xiebai (Allium macrostemon) (Long Stem Onion)
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, models, videos, role
	play.
Sub-Unit 7.8: Herbs That Stimulate Blood Circulation and Remove Blood Stasis	Hours: 5
Objectives:	Contents:
Describe herbs that stimulate blood circulation and remove blood stasis. Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that stimulate blood circulation and remove blood stasis.	 Action, Indication, Characteristics of herbs. Precautions when using herbs. Clinical conditions for use of herbs. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Yujin (Curcuma wenyujin, aromatica)
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	(Tumeric) Danshen (Salvia miltiorrhiza) (Red Sage) Taoren (Prunus persica) (Peach) Honghua (Carthamus tinctorius) (Safflower) Niuxi (Achyranthes bidentata) Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role play.

Sub-Unit 7.9: Herbs That Dissolve Phlegm	Hours: 5
or Stop Cough and Relieve Asthma	
Objectives:	Contents:
Describe herbs that dissolve phlegm or stop cough and relieve asthma.	Action, Indication, Characteristics of herbs.
Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that dissolve phlegm or stop cough and relieve asthma.	 Precautions when using herbs. Clinical conditions for use of herbs. Essential information on the Latin name / common name, parts used nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Gualou (Trichosanthes kirilowii) (Snake-Gourd) Xingren (Prunus armeniaca) (Apricot) (Also Known as Kuxingren) Zisuzi (Perilla frutescens) Sangbaipi (Morus alba) (WhiteMulberry)
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or simulated settings.	classroom instruction and demonstration, return demonstration, models, videos, role
C	play.
Sub-Unit 7.10: Herbs That Restore (Tonics)	Hours: 8
Objectives:	Contents:
Describe herbs that restores. Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that restores.	 Action, Indication, Characteristics of herbs. Precautions when using herbs. Clinical conditions for use of herbs. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Renshen (Panax ginseng) (Ginseng) Shudihuang (Rehmannia glutinosa) Gancao (Glycyrrhiza uralensis) (Chinese Liquorice) Shanyao (Dioscorea opposita) (Chinese Yam) Dongchongxiacao (Cordyceps sinensis) (Chinese Caterpillar Fungus) Danggui (Angelica sinensis) Mohanlian (Eclipta prostrata) Hutaoren (Juglans regia) (Walnut)
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role
Sub-Unit 7.11: Herbs That Calm Mind	play. Hours: 3
Sub-unit 7.11: Herbs That Calm Mind	HUUIS: 3

Objectives:	Contents:
Describe herbs that calm mind.	Action, Indication, Characteristics of
Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that calm mind.	 herbs. Clinical conditions for use of herbs. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Suanzaoren (Ziziphus jujuba Mill. var. spinosa) (Chinese Jujube) Muli (Ostrea gigas, rivularis) (Oyster)
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, models, videos, role
	play.

Sub-Unit 7.12: Herbs That Calm Liver	Hours: 6
and Extinguish Wind	
Objectives:	Contents:
Describe herbs that calm liver and extinguish	Action, Indication, Characteristics of
wind.	herbs.
Familiarize with the essential information on	• Precautions when using herbs.
the properties, meridian affinity, actions and	• Clinical conditions for use of herbs.
indications, dosages and cautions and	• Essential information on the Latin name /
contraindications in the use of each herb that	common name, parts used, nature / flavour,
calm liver and extinguish wind.	meridian affinity, actions and indications,
_	dosages and cautions and contraindications
	in the use of each herb.
	> Tianma (Gastrodia elata)
	> Gouteng (Uncaria rhynchophylla)
	> Shijueming (Haliotis diversicolor)
	(Abalone)
	> Dilong (Pheretima aspergillum)
	(Earthworm)
	 Baijiangcan (Bombyx mori) (Silkworm) Quanxie (Buthus martensii) (Scorpion)
	Wugong (Scolopendra subspinipes)
	(Centipede)
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, models, videos, role
simulated settings.	play.
Sub-Unit 7.13: Herbs That Stabilize and	Hours: 3
Astringe	
Objectives:	Contents:
Describe herbs that stabilize and astringe.	Action, Indication, Characteristics of
Familiarize with the essential information on	herbs.
the properties, meridian affinity, actions and	• Precautions when using herbs.
indications, dosages and cautions and	Clinical conditions for use of herbs.

contraindications in the use of each herb that stabilize and astringe.	 Essential information on the Latin name / common name, parts used nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Fuxiaomai (Triticum aestivum) (Wheat) Wumei (Prunus mume) (Plum) Lianzi (Nelumbo nucifera) (Lotus)
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role play.
Sub-Unit 7.14: Herbs That Stop Bleeding	Hours: 5
Objectives:	Contents:
Describe herbs that stop bleeding. Familiarize with the essential information on the properties, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb that stop bleeding.	 Action, Indication, Characteristics of herbs. Precautions when using herbs. Clinical conditions for use of herbs. Essential information on the Latin name / common name, parts used, nature /flavour, meridian affinity, actions and indications, dosages and cautions and contraindications in the use of each herb. Aiye (Artemisia argyi) (ArgyWormwood) Sanqi (Panax pseudoginseng, var. notojinseng) Qiancao (Rubia cordifolia) (IndiaMadder)
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, models, videos, role play.

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- 6. Hempen, C.-H., & Fischer, T. (2009). A materia medica for Chinese medicine. Elsevier Limited.
- 7. Bensky, D., Clavey, S., & Stöger, E. (2015). *Chinese herbal medicine: Materia medica* (3rd ed.). Eastland Press.

Concept of Moxibustion and Medicinal Plants (Practical)

Practical: 70 hrs. (2 hrs./weeks)

Unit 1: Concept of Moxibustion and its Application Sub-Unit 1.1: General identification and appropriate way of collection of moxa plant (10 hrs.)

- Visit nearby field.
- Identify the moxa plant based on its morphology and characteristics.
- Identify the parts of the plant to be collected.
- Collect Moxa plant with precautions.

Sub-Unit 1.2: Process moxa plant (Mugwort Plant)

(10 hrs.)

- Dry and store mugwort leaves.
- Process the collected moxa plant by:
 - o Drying
 - o Grinding.
 - o Sieving.
 - o Filtration and purification.
- Collect processed moxa wool.

Sub-Unit 1.3: Storing processed moxa wool and use it to prepare moxa stick and cone (6 hrs.)

- Pack and Store moxa wool safely according to the quality.
- Prepare moxa stick and cone with precautions.
- Pack and Store prepared moxa stick for further use.

Sub-Unit 1.4: Methods and Precautions Taken during Moxibustion

(6 hrs.)

- Perform sequence of Moxibustion.
- Point out the precautions while applying moxa.
- Perform management after Moxibustion.

Unit 2: Common Medicinal Herbs of TCM

2.1 Observation and Drawing:

(14 hrs.)

Perform identification and drawing of following medicinal plants:

Aiye	Bohe	Buguzhi	Chenpi	
Danggui	Dilong	Dingxiang	Dongcongxiacao	Fangxie
FuziGancao	Gualou	Guizhi	Honghua	
Huanglian	Jinyinhua	Juhua		
Longgu	Mahuang	Mangxiao	Mohanlian	Muxiang
Niuxi				
Cheqianzi	Renshen	Rougui	Sangye	Sanqi
Shanxiang	Shichangpu	Suanzaoren	Taoren	Wumei
Xiangfu	Xiebai	Xingren	Yinchencao	Yujinzhuling
Zisu				

2.2 Field trip and Herbarium Preparation:

(24 hrs.)

- 1. Perform field trip of minimum of 4 days visiting herbarium and herbal gardens or farms
- 2. Collect specimens of locally available medicinal plants and prepare herbarium sheets of minimum of 20 medicinal plants included in theory course.

Basic Theory of Oriental Medicine

Total: 140 hrs. (4 hrs./week) Theory: 140 hrs. (4 hrs./week) Practical: 0 hrs. (0 hrs./week)

Course Description:

This course is designed to provide students about the skills and knowledge of basic theory of oriental medicine.

Course Objectives:

After completion of this course, students will be able to:

- 1. Explain acupuncture and moxibustion;
- 2. Explain yin, yang and five elements;
- 3. Explain Zang and fu organs;
- 4. Explain essence, Qi, blood and body fluid;
- 5. Explain pathogenic factors; and
- 6. Explain pathogenesis.

Course Contents:

THEORY

11112	UKI
Unit 1: Introduction of Oriental Medicine	Hours: 3
Sub-Unit 1: Introduction of Oriental	Hours: 3
Medicine	
Objectives:	Contents:
Explain the oriental medicine.	Oriental Medicine
Explain the History of oriental medicine	Introduction
Explain the History of offental medicine	History and development
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Unit 2: History of acupuncture and	Hours: 8
Moxibustion	
Objectives:	Contents:
Explain brief history of acupuncture and	• Origin of acupuncture and moxibustion.
Moxibustion.	Academic accomplishment of ancient
Describe academic accomplishment of	acupuncture and moxibustion.
ancient acupuncture and Moxibustion.	Wei, Jin, Sui and Tang dynasties.
	Song, Jin and Yuan dynasties
	Ming and Qing dynasties
	> Modern times
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Unit 3: Yin- Yang and five elements	Hours: 18
Sub-Unit 3.1: Yin and Yang	Hours: 9
Objectives:	Contents:
Define Yin and Yang	Concept of yin and yang.
Describe theory of Yin and Yang in oriental	Duality of yin and yang.
Medicine and its application	Theory of yin and yang.
modified and its application	• Yin- Yang properties of things.
	Application of yin and yang
	Relationship between yin and yang.

	T
	• Diagnosis of disease on the basis of yin
	and yang.
	Treatment of disease applying yin yang
	theory
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 3.2: Five elements	Hours: 9
Objectives:	Contents:
Classify the phenomena according to five	• Concept of five elements.
elements.	• Properties of five elements.
Describe the law of movement of five	• Five elements and their interrelationship.
elements	• Relationship between five elements and
A multi the theory of the five elements	zang fu organs.
Apply the theory of the five elements	• Laws of movement of five elements.
	• Application of theory of five elements
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Unit 4: Zang & fu organs	Hours: 30
Sub-Unit 4.1: Zang Organs	Hours: 12
Objectives:	Contents:
Identify the zang organs	• Identification of following organs
Explain anatomical location and	> The heart
physiological functions of zang organs.	> Pericardium
	> Lung
Explain the pathological changes of zang	> Spleen
organs	> Liver
Explain the relationship among the zang	> Kidney
organs.	• Pathological Changes of
	> The heart
	> Pericardium
	> Lung
	> Spleen
	> Liver
	> Kidney
	• Relationships between
	> Heart and lung
	> Heart and spleen
	> Heart and liver
	> Heart and kidneys
	Lung and spleen
	> Lung and liver
	> Lung and kidneys
	> Liver and spleen
	> Liver and kidney
	> Spleen and kidneys
Evaluation methods: written exam	Teaching / Learning Activities /
C L H 444 F C	Resources: classroom instruction
Sub-Unit 4.2: Fu Organs	Hours: 12
Objectives:	Contents:
Identify fu organs	• Fu organs: Identification, function and
	pathological Changes of:

Explain anatomical location and	> Gall Bladder
physiological functions of Fu organs	> Stomach
Explain the pathological changes of fu	> Small Intestine
organs.	> Large Intestine
	> Urinary Bladder
Explain the relationship among Fu organs.	Triple Warmer (sanjiao)
	Relationships among fu organs
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 4.3: Extra ordinary fu organs	Hours: 3
Objectives:	Contents:
Describe the location and functions of brain	• Location and functions of Brain.
and uterus.	• Location and functions of uterus.
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 4.4: Relationship between zang	Hours: 3
organs and fu organs	
Objectives:	Contents:
Explain the relationship between zang	Relationships between
organs and fu organs	Heart and small intestine
	Lung and large intestine
	Spleen and stomach
	Liver and gall bladder
	Kidney and bladder
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Unit 5: Essence, Qi, Blood & Body Fluid	Hours: 16
Sub-Unit 5.1: Concept of essence	Hours: 4
Objectives:	Contents:
Explain the concept, generation and	Concept of essence and its characteristic
functions of essence	Innate and acquired essence
	• Functions of essence
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction, group
	discussion
Sub-Unit 5.2: Classification, Production	Hours: 4
Sub-Unit 5.2: Classification, Production and movement of Qi	Hours: 4
· ·	Hours: 4 Contents:
and movement of Qi	
and movement of Qi Objectives: Classify Qi with their functions	Contents:
and movement of Qi Objectives:	Contents: • Classification of Qi according to its source,
and movement of Qi Objectives: Classify Qi with their functions	Contents: • Classification of Qi according to its source, functions & distribution.
and movement of Qi Objectives: Classify Qi with their functions	Contents: • Classification of Qi according to its source, functions & distribution. • Generation of Qi • Movement of Qi
and movement of Qi Objectives: Classify Qi with their functions	Contents: • Classification of Qi according to its source, functions & distribution. • Generation of Qi • Movement of Qi • Types of Qi
and movement of Qi Objectives: Classify Qi with their functions	 Contents: Classification of Qi according to its source, functions & distribution. Generation of Qi Movement of Qi Types of Qi Yuan Qi (primary Qi)
and movement of Qi Objectives: Classify Qi with their functions	Contents: Classification of Qi according to its source, functions & distribution. Generation of Qi Movement of Qi Types of Qi Yuan Qi (primary Qi) Zong Qi (Pectoral Qi)
and movement of Qi Objectives: Classify Qi with their functions	 Contents: Classification of Qi according to its source, functions & distribution. Generation of Qi Movement of Qi Types of Qi Yuan Qi (primary Qi)

Evaluation methods: written exam	Teaching / Learning Activities / Resources: classroom instruction, group discussion
Sub-Unit 5.3: Blood and body fluid	Hours: 4
Objectives:	Contents:
Explain the formation, circulation and functions of blood. Explain formation, distribution and discharge of body fluid. Sub-Unit 5.4: The relationship between essence, Qi, blood, and body fluid. Objectives: Explain the relationship between essence, Qi, blood, body fluid.	 Formation and circulation of blood. Functions of blood. Formation and distribution of body fluid. Discharge of body fluids Hours: 4 Contents: Relationship between essence and Qi. Relationship between essence and blood. Relationship between Qi and blood. Relation between Qi and body fluid Relationship between blood and body fluid.
Evaluation methods: written exam	Teaching / Learning Activities / Resources: classroom instruction
Unit 6: Pathogenic Factors	Hours: 37
Sub-Unit 6.1: Six exogenous Factors	Hours: 10
Discuss and explain the wind as primary pathogenic factor and yang pathogenic factor. Explain the characteristics of wind pathogen Explain cold as yin pathogenic factor and how it consumes yang. Explain summer heat as yang pathogenic factor and its characteristics. Explain dampness, its characteristics and how it acts as yin pathogenic factor. Explain the characteristics and pathogenic effects of dryness and fire.	 Wind Concept of wind pathogen Wind as a primary exogenous pathogenic factor that causes disease Wind is yang pathogenic factor & characterized by upward & downward dispersion. Wind is characterized by rapid change when pathogenic wind produces some disorder. Cold Cold is Yin pathogenic factor & it consumes Yang Qi. Summer Heat Characteristics and its manifestation. Yang pathogenic factor, Damp Concept Characteristics Clinical manifestation Dryness Concept Characteristics Clinical manifestation Fire (mild heat & heat) Concept Characteristics Characteristics

Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 6.2: Epidemic pathogenic factor (pestilential Qi)	Hours: 2
Objectives:	Contents:
Discuss and explain the concept and	Pestilential Qi
characteristics of pestilential Qi.	> Concept
	> Pathogenic characteristics
	> Factors affecting the formation and
Evaluation matheday wwitten aven	epidemic of pestilential Qi.
Evaluation methods: written exam	Teaching / Learning Activities / Resources: classroom instructions
Sub-Unit 6.3: Inter-relationship between	Hours: 4
seven emotions and essential Qi of viscera	Trouis.
Objectives:	Contents:
Explain seven emotions.	• Seven emotions
Explain how the viscera are affected by	• Joy, anger, worry, anxiety, sadness, fear
emotional factors.	and fright.
Explain how the normal function of the	• Influence on viscera and body mechanisms by emotional factors
viscera is disturbed by emotional pathogenic	Pathological relationship between seven
factors.	emotions and zang fu organs.
Explain how the emotional factors influence	Pathogenic characteristics of internal
zang fu organs	injury due to seven emotions.
Evaluation methods: written exam	Teaching / Learning Activities / Resources: classroom instruction
Sub-Unit 6.4: Pathogenic characteristics	Hours: 4
of seven emotions	110015. 7
Objectives:	Contents:
Explain the pathogenic characteristics of	Influence of seven emotions to human
seven emotions and how they affect our	body
body	Effects of pathological changes to our
	body due to seven emotions
Evaluation methods: written exam	Teaching / Learning Activities /
Sub-Unit 6.5: Diet, work and rest	Resources: classroom instruction Hours: 4
Objectives:	Contents:
Explain the impacts of healthy and	• Diet
unhealthy diet habits	Healthy diet habit
	Unhealthy diet habit
Explain the impact of physical overstrain, mental overstrain and sexual overstrain.	> Improper diet
	> Irregular diet
Explain how excessive rest influences the	> Unhygienic diet
body.	> Over eating
Discuss and explain the predilection of	> Under eating
different type of food.	• Work
	Physical overstrainMental overstrain
	Nientai overstrainSexual overstrain
	, Soldan O'Cibranii

	• Rest
	> Influence of excess rest to the body.
	• Diet predilection
	> Predilection of food for five tastes, cold
	or heat, for alcohol, for one type of
	food.
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 6.6: Retention of phlegm and fluid, blood stasis	Hours: 4
Objectives:	Contents:
Explain the concept and characteristic of	Definition of phlegm and blood stasis
phlegm, fluid retention, blood stagnant blood	Phlegm fluid retention
	• The role of phlegm, fluid & blood stasis
	resulting from disturbances of water
	metabolism & their pathological changes
	to the body.
	Formation of stagnant blood
	Pathogenic characteristics of stagnant
	blood.
Evaluation methods: written exam	Teaching / Learning Activities /
Evaluation interious. Written exam	Resources: classroom instruction
Sub-Unit 6.7: Pathogenic mechanism	Hours: 5
Objectives:	Contents:
Explain the onset, mechanism, development	Onset of disease, its mechanism.
and changes of disease	Development process of disease after
	onset.
Explain major factors influencing the onset	• Changes after the onset of disease.
of diseases	Struggle between healthy Qi and
	pathogenic Qi
	Onset of disease by external environment
	like climatic factors, regional factors,
	living environment, social environment.
	 Onset of disease and internal environment.
Evaluation methods: written exam	
Evaluation methods: written exam	Teaching / Learning Activities / Resources: classroom instruction
Sub-Unit 6.8: Deficiency of vital Qi is the	Hours: 4
internal Basic cause of occurrence of	
disease.	
Objectives:	Contents:
Explain the importance of vital Qi.	• Importance of vital Qi to our body to live
Explain how pathogenic factor and	healthy.
pathogenic Qi play role in occurring disease.	Reasons for deficiency of vital Qi
	Role of pathogenic factor and pathogenic Oi in convering disease.
Evaluation mathed as societies as	Qi in occurring disease.
Evaluation methods: written exam	Teaching / Learning Activities /
Harita 71. Death a second	Resources: classroom instruction
Unit 7: Pathogenesis	Hours: 28
Sub-Unit 7.1: Basis pathogenesis	Hours: 4
Objectives:	Contents:

Explain the basis nother assessing anti-	Consent of
Explain the basic pathogenesis, anti-	• Concept of
pathogenic Qi and pathogenic Qi	Basic pathogenesis.
	> Anti pathogenic Qi.
	> Pathogenic Qi
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 7.2: The invasion of pathogenic	Hours: 4
factor is external cause of the occurrence	
of disease.	~
Objectives:	Contents:
Explain six pathogenic factors as external	Role of six pathogenic factors causing
causes of disease	external diseases
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 7.3: Conflict between anti	Hours: 4
pathogenic Qi and pathogenic Qi	
Objectives:	Contents:
Explain preponderance and decline of	• Conflict between anti pathogenic Qi and
pathogenic or healthy Qi.	pathogenic Qi.
Explain how invasion of pathogenic Qi	> Invasion of pathogenic Qi
causes excess or deficiency of syndrome	Excess of syndrome
	> Deficiency of syndrome.
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 7.4: Disharmony of yin & yang	Hours: 4
Objectives:	Contents:
Explain how cold syndrome and heat	• Disharmony of yin & yang.
syndrome occurs by disharmony of yin-	• Heat syndrome.
Yang.	Cold syndrome
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 7.5: Abnormal ascending &	Hours: 4
descending of Qi	
Objectives:	Contents:
Explain abnormal ascending & descending	Abnormal ascending & descending of Qi.
of Qi and disorders of Qi	• Disorders of Qi
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction
Sub-Unit 7.6: Disorders of blood	Hours: 4
Objectives:	Contents:
Explain disorders of blood	Blood deficiency
Emplain disorders of orood	Blood stasis
	Blood salais Blood cold
	Blood heat
	Blood hemorrhage
Evaluation methods: written exam	Teaching / Learning Activities /
Lianuation memous. written exam	Resources: classroom instruction
Sub-Unit 7.7: Disharmony between Qi and	Hours: 4
blood	iivuis. T
Objectives:	Contents:
L VIDICALIVES.	Cuncilia.

Explain the conditions due to disharmony	Qi stagnation and blood stasis
between Qi and blood	Qi deficiency and blood stasis
~	The failure of Qi to control blood
	Deficiency of both Qi and blood
Evaluation methods: written exam	Teaching / Learning Activities /
	Resources: classroom instruction

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Meridians and Acupoints

Total: 210 hrs. (6 hrs./week) Theory: 140 hrs. (4 hrs./week) Practical: 70 hrs. (2 hrs./week)

Course Description:

This course is designed to provide students about the knowledge and skills of meridian and acupoints, in detail about the location and properties of different meridians and its acupoints.

Course Objectives:

After completion of this course, students will be able to:

- 1. Describe nomenclatures of meridians and collateral;
- 2. Describe function of meridians and collateral.
- 3. Explain basic concept of meridians and collateral;
- 4. Identify different meridians and their locations;
- 5. Explain properties of different meridians; and
- 6. Explain properties of different meridians and Acupoints

Course Contents:

THEORY

Unit 1: The Meridians & Collaterals	Hours: 8
Sub-Unit 1.1: Nomenclatures of the	Hours: 1
meridians & types	
Objectives:	Content:
Discuss nomenclatures of main meridians & extra meridians and their relation to Yin & Yang, zang organs & fu organs, hand & foot.	 Nomenclatures of Twelve regular meridians and eight extra meridians. Relations of meridians to: Yin & Yang Zang organs Fu organs
	> Hand & foot.
Sub-Unit 1.2: Basic concept of the meridians & collaterals	Hours: 2
Objectives:	Contents:
Discuss circulation of Qi & blood: interiorly & exteriorly distribution across the body.	 Circulation and distribution of Qi & blood: interiorly and exteriorly across the body. Introduction to the collaterals
Sub-Unit 1.3: Functions of meridians & collaterals	Hours: 2
Objectives:	Contents:
Explain transporting Qi & blood regulated by Yin & Yang. Discuss resisting pathogens & presenting signs and symptoms.	 Function of Qi & blood to regulate Yin & Yang. Resisting pathogens & presenting signs and symptoms. Transmitting needling sensation and regulating
Discuss Transmitting needling sensation and regulating deficiency and excess conditions	deficiency and excess conditions
Sub-Unit 1.4: Distribution of the fourteen meridians.	Hours: 2
Objectives:	Contents:

Discuss distribution of meridian in the limb, body & trunk, head, neck, and face.	 Distribution of meridian in the basis of location in: Limb Body & trunk Head, neck, and face.
Sub-Unit 1.5: Cyclical flow of Qi in twelve regular meridians	Hour: 1
Objectives:	Contents:
Explain linkage of meridians pertaining	Linkage of exterior and interior
communicating Exterior and interior relation	meridians via cyclic flow of Qi-Energy Flow Chart
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction, practice in a simulated setting, supervised clinical practice
Unit 2: Location of Acupoints	Hours: 5
Sub-Unit 2.1: Classification &	Hours: 2
nomenclature of Acupoints	
Objectives:	Content:
Define Acupoints and explain their	• Acupoints;
classification & nomenclature.	> Definition
	> Classification
	> Nomenclature
Sub-Unit 2.2: Proportional measurement	Hours: 1
Objectives:	Contents:
Discuss proportional measurement of human	Proportional measurement of human
body. (heads, chest, abdomen, back, lateral side of chest, upper extremities, lower	body including: > Head and Face
extremities)	Chest and abdomen
extremities)	Lateral side of chest
	> Back
	Upper extremities
	> Lower extremities
Sub-Unit 2.3: Anatomical landmarks	Hour: 1
Objectives:	Contents:
Discuss fixed anatomical landmarks	Surface anatomy
Discuss moving landmarks	Fixed landmarks
	Moving landmarks
Sub-Unit 2.4: Finger measurement	Hour: 1
Objectives:	Contents:
Discuss middle finger measurement, thumb	Different Measurements techniques and
measurement, and four finger measurements	their uses:
& their utility.	> Thumb
	Four fingersMiddle finger
	_
	• Conversion in metrics and imperial
	Conversion in metrics and imperial systems of measurement.
Evaluation methods: written exam. spotting.	systems of measurement.
Evaluation methods: written exam, spotting, viva, performance observation in clinical	systems of measurement. Teaching / Learning Activities /
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting	systems of measurement.

Sub-Unit 3.1: Define twelve regular meridians & elaborate their types	Hours: 4
Objectives:	Contents:
Discuss about introduction of 12 regular	Basic concepts of 12 regular Meridian &
meridians & pathway of meridians.	their pathways
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 4: Acupoints of lung meridian of hand	Hours: 6
TaiYin	Trours. o
Sub-Unit 4.1: Identification pathway of lung meridian	Hours: 6
Objectives:	Contents:
Discuss pathway of lung meridians, origin, distribution & ending.	 Pathway of Lung Meridian according to: Origin Distribution Ending Acupoints of Lung Meridian along with their location, indications and depth and
	direction of insertion (Important Major Points)
Evaluation matheday visitas aven anottina	Contraindications of acupoints Togething / Learning Activities /
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 5: Acupoints of large intestine	Hours: 6
meridian of hand YangMing	П
Sub-Unit 5.1: Identification pathway of	Hours: 6
Large Intestine meridian	Comtonto
Objectives:	Contents:
Discuss pathway of large intestine meridians, origin distribution & ending.	 Pathway of Large Intestine according to: Origin Distribution Ending Acupoints of Large Intestine Meridian along with their location, indications and depth and direction of insertion (Important Major Points) Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 6: Acupoints of Stomach meridian of foot YangMing	Hours: 8
Sub-Unit 6.1: Identification pathway of	Hours: 8
stomach meridian	Contonta
Objectives:	Contents:
Discuss pathway of stomach meridians, origin, distribution & ending.	 Pathway of Stomach meridian according to: > Origin > Distribution

	1
	> Ending
	Acupoints of Stomach Meridian along
	with their location, indications and depth
	and direction of insertion (Important
	Major Points)
	Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 7: Acupoints of Spleen meridian of	Hours: 6
foot TaiYin	
Sub-Unit 7.1: Identification pathway of	Hours: 6
spleen meridian	Combonto
Objectives:	Contents:
Discuss pathway of spleen meridians, origin,	Pathway of Spleen Meridian according
distribution & ending.	to:
	> Origin> Distribution
	> Ending
	• Acupoints of Spleen Meridian along with
	their location, indications and depth and
	direction of insertion (Important Major
	Points)
	• Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 8: Acupoints of Heart meridian of	Hours: 5
hand ShaoYin	Hours: 5
Sub-Unit 8.1: Identification pathway of heart meridian	Hours: 5
Objectives:	Contents:
Discuss pathway of heart meridians, origin	• Pathway of Heart Meridian according to:
1 .	,
distribution & ending.	> Origin> Distribution
	> Ending
	Acupoints of Heart Meridian along with
	their location, indications and depth and
	direction of insertion (Important Major
	Points)
	Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 9: Acupoints of small intestine	Hours: 6
meridian of hand TaiYang	110415. 0
Sub-Unit 9.1: Identification pathway of	Hours: 6
small intestine meridian	110415. 0
Objectives:	Contents:
·	
Discuss nathway of small intestine meridians	• Pathway of Small Intestine Meridian
Discuss pathway of small intestine meridians, origin distribution & ending.	• Pathway of Small Intestine Meridian according to

	T
	> Origin
	> Distribution
	> Ending
	Acupoints of Small Intestine Meridian
	along with their location, indications and
	depth and direction of insertion
	*
	(Important Major Points)
	Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 10: Acupoints of Urinary bladder	Hours: 10
meridian of foot TaiYang	
Sub-Unit 10.1: Identification pathway of	Hours: 10
urinary bladder meridian	
Objectives:	Contents:
Discuss pathway of urinary bladder meridians,	Pathway of Urinary Bladder Meridian
origin distribution & ending.	according to:
	> Origin
	> Distribution
	> Ending
	• Acupoints of Urinary Bladder Meridian
	along with their location, indications and
	depth and direction of insertion
	(Important Major Points)
	Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 11: Acupoints of Kidney meridian of	Hours: 6
foot ShaoYin	11
Sub-Unit 11.1: Identification pathway of	Hours: 6
kidney meridian	
Objectives:	Contents:
Discuss pathway of kidney meridians, origin	Pathway of Kidney Meridian according
distribution & ending.	to:
	> Origin
	> Distribution
	> Ending
	Acupoints of Kidney Meridian and their
	properties
	Acupoints Contraindications
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 12: Acupoints of Pericardium	Hours: 6
meridian of hand TaiYang	iiouis. v
Sub-Unit 12.1: Identification pathway of	Hours: 6
pericardium meridian	110415. 0
pericarulum mettutan	
Objectives:	Contents:

Discuss pathway of pericardium meridians, origin distribution & ending. Evaluation methods: written exam, spotting,	 Pathway of Pericardium Meridian according to Origin Distribution Ending Acupoints of Pericardium Meridian along with their location, indications and depth and direction of insertion (Important Major Points) Contraindications of acupoints Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
Setting Unit 13: Acupoints of triple energizer (San	supervised clinical practice Hours: 6
Jiao) meridian of hand ShaoYang	Hours. o
Sub-Unit 13.1: Identification pathway of	Hours: 6
San Jiao meridian	
Objectives:	Contents:
Discuss pathway of San Jiao meridians, origin	Pathway of San Jiao Meridian according
distribution & ending.	to:
	OriginDistribution
	> Ending
	Acupoints of San Jiao Meridian along
	with their location, indications and depth
	and direction of insertion (Important
	Major Points)
	Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical setting	Resources: classroom instruction, supervised clinical practice
Unit 14: Acupoints of Gall bladder	Hours: 8
meridian of foot ShaoYang	110415.0
Sub-Unit 14.1: Identification pathway of	Hours: 8
gall bladder meridian	
Objectives:	Contents:
Discuss pathway of Gall bladder meridians,	Pathway of Gall bladder Meridian
origin distribution & ending.	according to:
	OriginDistribution
	> Ending
	Acupoints of Gall bladder Meridian
	along with their location, indications and
	depth and direction of insertion
	(Important Major Points)
	Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting Unit 15: Acupoints of Liver meridian of	supervised clinical practice Hours: 6
foot JueYin	iiuuis. U
1001 0 40 1 111	

Sub-Unit 15.1: Identification pathway of liver meridian	Hours: 6
Objectives:	Contents:
Discuss pathway of Liver meridians, origin distribution & ending.	 Pathway of Liver Meridian according to: Origin Distribution Ending Acupoints of Liver Meridian along with their location, indications and depth and direction of insertion (Important Major Points) Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 16: The Eight extra meridians	Hours: 6
Sub-Unit 16.1: General identification of	Hours: 6
extra meridians	
Objectives:	Contents:
Define extra meridians	Extra meridians
List and explain the types of extra meridians	> Definition
List and explain the types of extra meridians	> Types
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 17: The Du meridians	Hours: 6
Sub-Unit 17.1: Identification of Du meridians	Hours: 6
Objectives:	Contents:
Objectives.	Contents.
Discuss nathway of Du meridians (Governor	Pathway of Du Meridian (Governor)
Discuss pathway of Du meridians (Governor Vessels) origin distribution ending and	Pathway of Du Meridian (Governor Vessels) according to:
Vessels), origin, distribution, ending and	Vessels) according to:
	Vessels) according to: > Origin
Vessels), origin, distribution, ending and	Vessels) according to: OriginDistribution
Vessels), origin, distribution, ending and acupoints	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting,	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities /
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction,
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical setting	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 18: The Ren meridians	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 6
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 18: The Ren meridians Sub-Unit 18.1: Identification of Ren	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 18: The Ren meridians Sub-Unit 18.1: Identification of Ren meridians	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 6 Hours: 6
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 18: The Ren meridians Sub-Unit 18.1: Identification of Ren meridians Objectives:	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 6 Contents:
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 18: The Ren meridians Sub-Unit 18.1: Identification of Ren meridians Objectives: Discuss pathway of Ren meridians	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 6 Contents: • Pathway of Ren Meridian (Conception
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 18: The Ren meridians Sub-Unit 18.1: Identification of Ren meridians Objectives: Discuss pathway of Ren meridians (Conception Vessels), origin, distribution &	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 6 Contents: • Pathway of Ren Meridian (Conception Vessels) according to:
Vessels), origin, distribution, ending and acupoints Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 18: The Ren meridians Sub-Unit 18.1: Identification of Ren meridians Objectives: Discuss pathway of Ren meridians	Vessels) according to: > Origin > Distribution > Ending • Acupoints of Du Meridian along with their location, indications and depth and direction of insertion (Important Major Points) • Contraindications of acupoints Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 6 Contents: • Pathway of Ren Meridian (Conception

	T
	Acupoints of Ren Meridian along with
	their location, indications and depth and
	direction of insertion (Important Major
	Points)
	 Contraindications of acupoints
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 19: Identification pathway of twelve	Hours: 8
divergent meridians & fifteen collaterals	110413. 0
Sub-Unit 19.1: The Three Yin collaterals of	Hours: 2
hand	110413. 2
Objectives:	Contents:
·	• Pathway of three Yin collaterals of hand
Discuss pathway of three Yin collaterals of	
hand confluence distribution, mutual	according to:
connection & ending.	> Origin
	> Distribution
	> Mutual Connection
	> Ending
	Basic Properties
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 19.2: The Three Yang collaterals	Hours: 2
of hand	
Objectives:	Contents:
Discuss pathway of three Yang collaterals of	Pathway of three Yang collaterals of
hand confluence distribution, mutual	hand according to:
connection & ending	> Origin
To announce of the same	> Distribution
	Mutual Connection
	> Ending
	> Basic Properties
Evaluation mathoday written avons anotting	•
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 19.3: The three Yin collaterals of	Hours: 2
Foot	
Objectives:	Contents:
Discuss pathway of three Yin collaterals of	• Pathway of three Yin collaterals of foot
foot confluence distribution, mutual	according to:
connection & ending.	> Origin
	> Distribution
	Mutual Connection
	> Ending
	> Basic Properties
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 19.4: The three Yang collaterals	Hours: 2
of Foot	110415. 2
ու դորք	

Objectives:	Contents:
Identify pathway of three Yang collaterals of	Pathway of three Yang collaterals of foot
foot confluence distribution, mutual	according to:
connection & ending.	> Origin
5	> Distribution
	> Mutual Connection
	> Ending
	> Basic Properties
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 20: Location of Specific points	Hours: 18
Sub-Unit 20.1: Specific points on the limbs	Hours: 7
Objectives:	Contents:
Discuss five shu points & their utility	• Introduction in brief along with their uses
Discuss Yuan-primary points & their utility	about:
	Five shu points
Discuss Luo-connecting points & their utility	> Yuan-primary points
Discuss XI-cleft points & their utility	Luo-connecting pointsXI-cleft points
Discuss eight confluent points & their utility	> Eight confluent points
Discuss eight influential points & their utility	> Eight Influential points
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 20.2: Specific points on the Head& trunk	Hrs. theory: 7
Objectives:	Contents:
Discuss back shu point & its importance	• Introduction in brief along with their uses
Discuss front mu points & its importance	about:
Discuss crossing points & its importance	> Back-shu points
Discuss crossing points & its importance	> Front-mu points
F14	> Crossing points
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Unit 21: Precautions of acupoints during treatment	Hours: 4
Objectives:	Contents:
Discuss about precautions and	Forbidden or cautious use during
contraindication of some acupoints in different	pregnancy
conditions	• Forbidden or cautious use for Moxa
	Caution for deep needling
	• Cautions for avoiding major arteries and
	nerves
	Cautions for avoiding internal organ
	injury
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction, supervised clinical practice

- 1. China Traditional Chinese Medicine Publishing House. (2012, January 1). Meridians and acupoints.
- Jessica Kingsley Publishers. (2010, August). *International acupuncture textbooks*.
 Wang, H. (2011). *Meridians and acupoints* (Bing Zhu Hongcai).

Meridians and Acupoints (Practical)

Practical: 70 hrs. (2 hrs./week)

Unit 1: The Meridians & Collaterals

Sub-Unit 1: 8 hrs.

- Locate the distribution of meridians in the:
 - o limbs.
 - o body and truck,
 - o head, neck and face

Sub-Unit 2: 50 hrs.

• Draw cyclic flow of Qi

Unit 2:Pathways and Needling

- Draw the pathway of meridians, their origin, distribution & ending and perform needling on major acupoints of:
 - 1. lung meridian of hand-taiyin
 - 2. large intestine meridian of hand Yang Ming
 - 3. Stomach meridian of foot yang ming
 - 4. Spleen meridian of foot taiyin
 - 5. Heart meridian of hand shaoyin
 - 6. Small intestine meridian of hand tai Yang
 - 7. Urinary bladder meridian of hand tai Yang
 - 8. Kidney meridian of foot shao Yin
 - 9. Pericardium meridian of hand Jueyin
 - 10. Triple warmer (Sanjiao) meridian of hand shao yang
 - 11. Gall bladder meridian of foot shao Yang
 - 12. Liver meridian of foot jue yin
 - 13. DU Meridian
 - 14. Ren meridian
 - 15. Extra ordinary meridian

Unit: 30 Location of Acupoints

4 hrs.

Sub-Unit 1: Proportional measurement

• Measure the proportional measurement of human body (heads, chest, abdomen, back, lateral side of chest, upper extremities and lower extremities.)

Sub-Unit 2: Finger measurement

- Measure middle finger measurement & its conversion in metric system.
- Measure thumb measurement & its conversion in metric system.
- Measure four finger measurement& its conversion in metric system.

Unit 31: Location of Specific points

8 hrs.

Sub-Unit 1: Specific points on the limbs

- five shu points and its utility
- Yuan-primary points & its utility.
- Luo-connecting points & its utility.
- XI-cleft points and its utility
- Eight confluent points & its utility.

Sub-Unit 2: Specific points on the Head & trunk

- Back shu point & its importance.
- Front mu points & its importance
- Crossing points & its importance.

Diagnosis in Acupuncture and Moxibustion

Total: 140 hrs. (4 hrs./week) Theory: 70 hrs. (2 hrs./week) Practical: 70 hrs. (2 hrs./week)

Course Description:

This course is designed to provide students the knowledge and skills about diagnosis of patient by general inquiry, inspection, palpation, auscultation and olfaction. It also deals with identification and differentiation of major syndromes on the basis of pathological evils and meridians

Course Objective:

After completion of this course, students will be able to:

- 1. Diagnose the patient by general inquiry, inspection, palpation, auscultation and olfaction; and
- 2. Diagnose the patient on the basis of syndromes according to pathological evils and meridians.

Course Contents:

Course: Method of Diagnosis in Acupuncture and Moxibustion Unit 1: Basic principles of diagnosis Explain the diagnosis of Chinese medicine Describe four methods of diagnosis Describe four methods of diagnosis Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 2: General inspection by observation Sub-Unit 2.1: Observation of the appearance Objectives: Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Bub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, yellow, white and black Hours: 2 Concept of diagnosis in Chinese medicine Four methods of diagnosis - Concept of diagnosis in Chinese medicine Four methods of diagnosis - Inspection - Cancept of diagnosis in Chinese medicine Four methods of diagnosis - Inspection - Evaluation methods: written exam, spotting, supervised clinical practice - Diagnosis of the disease according to different complexion namely; - Normal Complexion with permanent and temporary color	Course Method of Diagnosis in	
Hours: 2 Contents	Course: Method of Diagnosis in	
Contents	•	-
Explain the diagnosis of Chinese medicine Describe four methods of diagnosis Describe four methods of diagnosis Describe four methods of diagnosis Four methods of diagnosis Four methods of diagnosis Inspection Listening and smelling Inquiry Palpation Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 2: General inspection by observation Sub-Unit 2.1: Observation of the appearance Objectives: Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Evaluation methods: written exam, spotting, viva, performance observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Concept of diagnosis in Chinese medicine Four methods of diagnosis Four methods of diagnosis Palpation Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Diagnosis of the disease according to different complexion namely; Diagnosis of the disease according to different complexion namely; Diagnosis of the disease according to different complexion with permanent and temporary color		
Describe four methods of diagnosis - Four methods of diagnosis - Inspection - Listening and smelling - Inquiry - Palpation Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 2: General inspection by observation Sub-Unit 2.1: Observation of the appearance Objectives: Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red,		
Secrible four methods of diagnosis Significance Significance	Explain the diagnosis of Chinese medicine	
Solution Solution	Describe four methods of diagnosis	
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting	Bestiles lear intended of diagnosis	±
Palpation		
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 2: General inspection by observation Bub-Unit 2.1: Observation of the appearance Objectives: Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Contents: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 2 Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Diagnosis of the disease according to different complexion namely; Diagnosis of the disease according to different complexion namely; Normal Complexion with permanent and temporary color		
viva, performance observation in clinical setting Unit 2: General inspection by observation Sub-Unit 2.1: Observation of the appearance Objectives: Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Resources: classroom instruction, Appearance • Movement and Posture Feaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 2 Contents: • Diagnosis of the disease according to different complexion namely; > Normal Complexion with permanent and temporary color		
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Unit 2: General inspection by observation Sub-Unit 2.1: Observation of the appearance Objectives: Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Hours: 8 Hours: 1 Diagnosis of the disease according to Appearance Novement and Posture Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 2 Diagnosis of the disease according to different complexion namely; Normal Complexion with permanent and temporary color	viva, performance observation in clinical	Resources: classroom instruction,
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Objectives: Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Contents: Contents: Diagnosis of the disease according to different complexion namely; Diagnosis of the disease according to different complexion namely; Normal Complexion with permanent and temporary color	Sub-Unit 2.1: Observation of the	Hours: 1
Describe importance of observation of the appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, • Diagnosis of the disease according to Appearance • Movement and Posture Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 2 • Diagnosis of the disease according to different complexion namely; • Normal Complexion with permanent and temporary color	appearance	
appearance, movement, posture. Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Appearance • Movement and Posture Resources: classroom instruction, supervised clinical practice Hours: 2 Contents: • Diagnosis of the disease according to different complexion namely; > Normal Complexion with permanent and temporary color	Objectives:	Contents:
• Movement and Posture Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, • Movement and Posture Resources: classroom instruction, supervised clinical practice Hours: 2 Contents: • Diagnosis of the disease according to different complexion namely; > Normal Complexion with permanent and temporary color	Describe importance of observation of the	Diagnosis of the disease according to
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 2 Contents: • Diagnosis of the disease according to different complexion namely; > Normal Complexion with permanent and temporary color	appearance, movement, posture.	Appearance
viva, performance observation in clinical setting Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, Resources: classroom instruction, supervised clinical practice Hours: 2 Contents: • Diagnosis of the disease according to different complexion namely; > Normal Complexion with permanent and temporary color		Movement and Posture
setting supervised clinical practice Sub-Unit 2.2: Observation of the vitality/complexion/color Objectives: Contents: Describe about different complexion, like normal and diseased complexion and its significance	Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
Sub-Unit 2.2: Observation of the vitality/complexion/colorHours: 2Objectives:Contents:Describe about different complexion, like normal and diseased complexion and its significance• Diagnosis of the disease according to different complexion namely; > Normal Complexion with permanent and temporary color	viva, performance observation in clinical	Resources: classroom instruction,
vitality/complexion/color Objectives: Contents: Describe about different complexion, like normal and diseased complexion and its significance • Diagnosis of the disease according to different complexion namely; significance > Normal Complexion with permanent and temporary color	setting	supervised clinical practice
Objectives: Contents: Describe about different complexion, like normal and diseased complexion and its significance • Diagnosis of the disease according to different complexion namely; Significance • Normal Complexion with permanent and temporary color	Sub-Unit 2.2: Observation of the	Hours: 2
Describe about different complexion, like normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, • Diagnosis of the disease according to different complexion namely; > Normal Complexion with permanent and temporary color	vitality/complexion/color	
normal and diseased complexion and its significance Explain five discolorations. eg. Blue, red, different complexion namely; Normal Complexion with permanent and temporary color	Objectives:	Contents:
significance Explain five discolorations. eg. Blue, red, Normal Complexion with permanent and temporary color	Describe about different complexion, like	Diagnosis of the disease according to
significance Explain five discolorations. eg. Blue, red, Normal Complexion with permanent and temporary color	normal and diseased complexion and its	different complexion namely;
Explain live discolorations, eg. Blue, red,	significance	> Normal Complexion with permanent
	Evaluin five discolarations on Rhya rad	and temporary color
yenow, winte and black		
	yenow, winte and black	

Evaluation methods: written exam, spotting, viva, performance observation in clinical setting	 Diseased complexion favorable or unfavorable to five colors Diagnosis of the disease according to five different diseased colors namely: Blue Red Yellow White Black Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
	•
Sub-Unit 2.3: Observation of the mind	Hours: 1
Explain five diseased mind type	 Different types of diseased mind and its significance namely: Getting of Mind Insufficient Mind Loss of Mind Pseudo Mind Mental Disorder
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 2.4: Observation of the Tongue	Hours: 3
Objectives:	Contents:
Discuss physiology of tongue Diagnosis according to inspection and	Physiology of the tongue according to TCM
different presentations of tongue Precaution during tongue diagnosis	 Diagnosis of the disease on the basis of presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during tongue diagnosis.
different presentations of tongue	presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during tongue diagnosis.
different presentations of tongue Precaution during tongue diagnosis	presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during
Precaution during tongue diagnosis Evaluation methods: written and viva	presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during tongue diagnosis. Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models,
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during tongue diagnosis. Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice.
Evaluation methods: written and viva exams, performance observation in real or simulated settings. Eub-Unit 2.5: Observation of the sense	presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during tongue diagnosis. Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models,
Evaluation methods: written and viva exams, performance observation in real or simulated settings. Eub-Unit 2.5: Observation of the sense organs	presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during tongue diagnosis. Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1
Evaluation methods: written and viva exams, performance observation in real or simulated settings. Eub-Unit 2.5: Observation of the sense	presentation by the tongue of any diseased person Inspection of tongue proper according to Moisture of tongue Colors of tongue Shape of tongue Tongue movement Inspection of tongue coating according to Color Coating Proper Combination of tongue proper and coating Precautions needed to be taken during tongue diagnosis. Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice.

Diagnosis according to inspection and different presentations of eyes, ears, nose	 Diagnosis of the disease on the basis of presentation by the eyes, ears, nose of any diseased person Inspection of tongue proper according to Eye wheel
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Unit 3: Auscultation and olfaction	Hours: 2
Sub-Unit 3.1: Listening	Hours: 1
Objectives:	Contents:
Explain importance of listening to speech.	Importance of listening to
Explain importance of listening to respiration.	> Speech
	> Respiration
Explain importance of listening to the cough.	> Cough
	Diagnosis method on the basis of listening
Evaluation matheday written avon anotting	to speech, respiration and cough.
Evaluation methods: written exam, spotting, viva, performance observation in clinical	Teaching / Learning Activities / Resources: classroom instruction,
setting	supervised clinical practice
	-
Sub-Unit 3.2: Smelling	Hours: 1
Objectives:	Contents:
Describe importance of smelling	• Explanation and diagnosis of the disease according to the smell (Secretion and excretion)
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models,
	videos, supervised clinical practice.
Unit 4: General inquiry	Hours: 8
Sub-Unit 4.1: Chills and fever	Hours: 1
Objectives:	Contents:
Explain presentations of exogenous exterior	Different types of presentations during
syndrome, exterior heat syndrome, and	chills and fever
interior cold syndrome during chill & fever.	Exogenous exterior syndrome
	Exterior heat syndrome
	Interior cold syndrome
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting Sub Unit 4.2. Paranization	supervised clinical practice
Sub-Unit 4.2: Perspiration	Hours: 1
Objectives: Explain indication of absence and presence of	Contents:
Explain indication of absence and presence of sweat, sweat during sleep and spontaneous	• Indications and diagnosis of the disease according to:
sweat, sweat during steep and spontaneous sweating, profuse sweating.	Absence or present of sweat
sweating, profuse sweating.	Absence of present of sweatSweat during sleep
	Sweat during steepSpontaneous sweating
	Profuse sweating.
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Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 4.3: Appetite, thirst and taste	Hours: 1
Objectives:	Contents:
- V	
Describe indications of: poor appetite, loss of,	Method of diagnosis of the disease
excessive appetite, lack of thirst, presence of	according to:
thirst, bitter and sweet taste, Greasy taste,	> Poor appetite
Sour taste and lack of taste. Appetite	> Loss of appetite
	Excessive appetiteLack of thirst
	> Presence of thirst
	> Presence of thirst > Bitter taste
	> Sweetish taste
	> Greasy taste
	> Sour taste
	Lack of taste.
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 4.4: Defecation and urination	Hours: 1
Objectives:	Contents:
Discuss different types of stools and urine and	Methods of diagnosis of the disease and
their indications.	their indications according to different
	types of stools and urine based on:
	> Frequency
	> Consistency
	> Sensation
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 4.5: Pain	Hours: 2
Objectives:	Contents:
Discuss about location and nature of pain	Symptoms, indication and diagnosis
with their indications.	based on location of:
	> Headache
	> Chest Pain
	> Hypochondriac pain
	> Abdominal pain
	> Gastric Pain
	> Lumbago
	> Pain in the extremities
	Distending Pain
	Symptoms, indication and diagnosis
	based on nature of
	> Stabbing pain
	> Cold pain
	> Burning pain
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
-	
setting	supervised clinical practice

Sub-Unit 4.6: Sleep	Hours: 1
Objectives:	Contents:
Explain different types of sleep with their	Diagnosis of the diseases according to
indications.	different types and nature of sleep
	observed
	> Insomnia
	> Lethargy
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 4.7: Menses and leucorrhoea	Hours: 1
Objectives:	Contents:
Explain about menstrual cycle, period,	• Introduction of the menstruation cycle.
amount, color, quality of flow &	Normal and abnormal period based on
accompanying symptoms and their	> Interval
indications.	> Amount of blood
Discuss about dysmenorrhea and different	> Color or consistency of the blood.
types of it.	Abnormal period based on interval
	abnormalities of menses
Discuss about leucorrhoea, color amount	 Preceded Menses
quality smell, and indications.	 Delayed Menses
	Abnormal period based on amount
	abnormalities of menses
	Profuse menses
	> Scanty Menses
	Abnormal period based on color or
	consistency abnormalities of menses
	> Light red
	> Deep red
	> Purplish Dim
	Dysmenorrhea due to
	> Qi or blood stagnation
	> Qi or blood deficiency
	> Cold retention
	Leucorrhoea and its causes depending on
	different colors observed
	> White leucorrhoea
	> Yellow leucorrhoea with greasy and
	fetid odour
Evaluation methods: written and viva	> Reddish leucorrhoea with fetid odour
	Teaching / Learning Activities/Resources: classroom instruction and demonstration,
exams, performance observation in real or	*
simulated settings.	return demonstration, anatomical models,
Unit 5: Faoling of pulsa & polyation of	videos, supervised clinical practice. Hours: 5
Unit 5: Feeling of pulse & palpation at different parts of body	iiouis. S
Sub-Unit 5.1: Feeling of pulse & palpation	Hours: 5
of different parts of body	1101100
Objectives:	Contents:
Explain about the features of normal and	Features of normal pulse and abnormal
abnormal pulse	pulse:
1	1

Explain methods of feeling of pulse at different locations.	> Rate > Force
E-ul-in alread weathering and model to de-	> Shape
Explain about mechanism and methods of	> Rhythm
pulse taking at Cun-Kou	• Explanation about pulse and feeling of
Discuss abnormal pulse reading with their	pulsation at different locations:
indications.	> General pulse taking
Evaluin adjustion of animastrium and	> Pulse taking on two regions
Explain palpation of epigastrium and	> Pulse taking on three regions
abdomen with their abnormal signs &	> Pulse taking on Cun-Kou
symptoms and indications.	Pulse taking on Cun-Kou
	> Mechanism
	> Method
	Abnormal pulse reading (diseased pulse)
	and their indications:
	> Floating pulses: Floating, surging,
	soggy (soft), scattered, hollow and
	tympanic
	> Deep pulses: Deep, hidden, firm and
	weak
	> Slow pulses: Slow, moderate,
	unsmooth (hesitant) and irregularly
	> intermittent
	> Rapid pulses: Rapid, abrupt, swift and
	stirred
	> Feeble (deficient) pulses: Deficient,
	faint, thready, regularly intermittent
	and short
	> Replenished (excessive) pulses:
	Excessive, slippery, tight, long and
	wiry
	• Explanation of palpation on epigastrium
	and abdomen with their abnormal signs &
	symptoms and indications.
Evaluation motheday weitten and wine	symptoms and materions.
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	
	Teaching / Learning Activities/Resources:
exams, performance observation in real or	Teaching / Learning Activities/Resources: classroom instruction and demonstration,
exams, performance observation in real or	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models,
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice.
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Hours: 1
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation Types of syndrome differentiation Objectives:	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Hours: 1 Contents:
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation Types of syndrome differentiation Objectives: Discuss exterior and interior syndrome with	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Hours: 1
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation Types of syndrome differentiation Objectives:	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Contents: Diagnosis of the disease in exterior and interior syndromes according to:
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation Types of syndrome differentiation Objectives: Discuss exterior and interior syndrome with manifestation.	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Hours: 1 Contents: • Diagnosis of the disease in exterior and interior syndromes according to: > Cold & heat
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation Types of syndrome differentiation Objectives: Discuss exterior and interior syndrome with manifestation. Differentiate cold and heat, deficiency &	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Contents: Diagnosis of the disease in exterior and interior syndromes according to: Cold & heat Deficiency & excess
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation Types of syndrome differentiation Objectives: Discuss exterior and interior syndrome with manifestation. Differentiate cold and heat, deficiency & excess in exterior syndrome.	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Contents: Diagnosis of the disease in exterior and interior syndromes according to: Cold & heat Deficiency & excess The relationship and differences between
exams, performance observation in real or simulated settings. Unit 6: Differentiation of syndromes Sub-Unit 6.1: Introduction of syndrome differentiation Types of syndrome differentiation Objectives: Discuss exterior and interior syndrome with manifestation. Differentiate cold and heat, deficiency &	Teaching / Learning Activities/Resources: classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice. Hours: 1 Contents: Diagnosis of the disease in exterior and interior syndromes according to: Cold & heat Deficiency & excess

Evaluation methods: written and viva exams, performance observation in real or	Teaching / Learning Activities/Resources: classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models, videos, supervised clinical practice.
Unit 7: Syndromes according to eight principles	Hours: 8
Sub-Unit 7. 1: Exterior and Interior	Hours: 2
Objectives:	Contents:
Explain Exterior and Interior syndromes.	 Syndromes according to Exterior and Interior type along with their clinical manifestations. Features and differentiate between Exterior and Interior
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or simulated settings.	classroom instruction and demonstration, return demonstration, anatomical models, videos, supervised clinical practice.
Sub-Unit 7. 2: Deficiency and Excess	Hours: 2
Objectives:	Contents:
Explain Deficiency and Excess syndromes.	Syndromes according to Deficiency and
Explain the features of Deficiency and Excess	Excess type along with their clinical manifestations.
	 Features and differentiate between Deficiency and Excess
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models, videos, supervised clinical practice.
Sub-Unit 7. 3: Cold and Heat	Hours: 2
Objectives:	Contents:
Explain Cold and Heat syndromes. Explain the features of Cold and Heat	Syndromes according to Cold and Heat type along with their clinical
syndrome	manifestations. • Features and differentiate between Cold and Heat
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models,
-	videos, supervised clinical practice.
Sub-Unit 7.4: Yin and yang	Hours: 2
Objectives:	Contents:
Explain yin and yang syndromes.	Syndromes according to Yin and Yang
Explain the features of deficiency of yin and	type along with their clinical
deficiency of yang, along with collapse of yin	manifestations.
and yang.	 Features and differentiate between Deficiency of Yin and deficiency of Yang
	Collapse of Yin and Collapse of yang

Evaluation methods: written and viva	Tooghing / Loopning Activities/Description
exams, performance observation in real or	Teaching / Learning Activities/Resources: classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models,
simulated settings.	
	videos, supervised clinical practice.
Unit 8: Syndromes according to the theory of Qi and blood.	Hours: 4
Sub-Unit 8.1: Syndromes of Qi	Hours: 2
Objectives:	Contents:
Describe yin & yang syndromes.	• Syndromes of:
Describe syndrome of sinking of Qi.	Yin and YangSinking of Qi.
Describe syndrome of stagnation of Qi.	> Stagnation of Qi
Describe syndrome of perversion of Qi.	> Perversion of Qi
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 8.2: Syndromes of blood	Hours: 2
Objectives:	Contents:
Discuss syndrome of deficiency of blood.	Different types of syndromes of blood
Discuss syndrome of stagnation of blood.	• Diagnose the disease according to:
•	syndromes related to either:
Discuss syndrome of heat in the blood	Deficiency of blood
	Stagnation of blood
	> Heat in the blood.
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models,
TI '40 C 1	videos, supervised clinical practice.
Unit 9: Syndromes according to the theory of Zang Fu organs	Hours: 20
Sub-Unit 9.1: Syndromes of heart & small	Hours: 4
intestine	
Objectives:	Contents:
Describe clinical manifestations, etiology &	• Introduction, clinical manifestations,
pathology of different types of syndromes of	etiology & pathology of the different
heart and small intestine	
	types of syndromes of heart and small
	types of syndromes of heart and small intestine.
	types of syndromes of heart and small intestine.Methods of diagnosis of the diseases on
	types of syndromes of heart and small intestine.Methods of diagnosis of the diseases on the basis of:
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and deficiency of the heart Yang.
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and deficiency of the heart Yang. Deficiency of the heart, blood and
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and deficiency of the heart Yang. Deficiency of the heart, blood and deficiency of the heart Yin
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and deficiency of the heart Yang. Deficiency of the heart, blood and deficiency of the heart Yin Stagnation of the heart and blood and
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and deficiency of the heart Yang. Deficiency of the heart, blood and deficiency of the heart Yin Stagnation of the heart and blood and deficiency of the heart Yin
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and deficiency of the heart Yang. Deficiency of the heart, blood and deficiency of the heart Yin Stagnation of the heart and blood and deficiency of the heart Yin Hyperactivity of the heart fire.
	 types of syndromes of heart and small intestine. Methods of diagnosis of the diseases on the basis of: Deficiency of the heart Qi and deficiency of the heart Yang. Deficiency of the heart, blood and deficiency of the heart Yin Stagnation of the heart and blood and deficiency of the heart Yin

Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
	Hours: 4
Sub-Unit 9.2: Syndromes of lung & large Intestine	Hours: 4
Objectives:	Contents:
Describe clinical manifestations, etiology &	Introduction and discussion on clinical
pathology of different types of syndromes of	manifestation, etiology & pathology of
lung and large intestine	the different types of syndromes of lung & large Intestine.
	Methods of diagnosis of the diseases on
	the basis of:
	> Invasion of the lung pathogenic wind
	> Retention of phlegm damp in the lung.
	Retention of phlegm heat in the lungInsufficiency of lung Yin
	> Damp heat in the large intestine
	> Consumption of the fluid of the large
	intestine.
	> Deficiency of the lung Qi
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 9.3: Complicated syndrome of	Hours: 4
the spleen & stomach:	
Objectives:	Contents:
Describe clinical manifestations, etiology &	Introduction and discussion on clinical
pathology of different types of syndromes of	manifestations, etiology & pathology of
spleen and stomach	the different types of syndromes of spleen & stomach.
	• Methods of diagnosis of the diseases on
	the basis of:
	> Deficiency of the spleen.
	 Deficiency of the spleen controlling Blood.
	Deficiency of the spleen Yang.
	Deficiency of spleen & Stomach.
	 Retention of Fluid in the stomach due to cold
	Hyperactivity for fire in the stomach.
	> Insufficiency of the stomach.
	Invasion of the spleen by cold & damp.
	> Damp heat in the spleen & stomach.
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 9.4: Syndromes of Liver and	Hours: 4
bladder	ALVMANT I
	I .
Objectives:	Contents:

Describe clinical manifestations, etiology &pathology of different types of syndromes of liver and gall bladder	 Introduction and discussion on clinical manifestations, etiology & pathology of the different types of syndromes of Liver and bladder. Methods of diagnosis of the diseases on the basis of: Stagnation of the liver QI. Etiology and pathology of the liver Qi Stagnation of the rising of the liver Yang Stirring of liver wind in the interior Stagnation of the rising of the retention of cold in the liver. Stagnation of the rising of the insufficiency of the liver blood. Stagnation of damp heat in the liver and gall bladder Stagnation of the rising of the damp heat in the liver
Evaluation methods: written exam, spotting,	Teaching / Learning Activities /
viva, performance observation in clinical	Resources: classroom instruction,
setting	supervised clinical practice
Sub-Unit 9.5: Syndrome of Kidney and	Hours: 4
bladder	
Objectives:	Contents:
Describe clinical manifestations, etiology &	• Introduction and discussion on clinical
pathology of different types of syndromes of	manifestations, etiology & pathology of
kidney and urinary bladder.	the different types of syndromes of
	Kidney and urinary bladder.
	Methods of diagnosis of the diseases on
	the basis of:
	 Deficiency of kidney Qi
	> Insufficiency of kidney yang
	> Insufficiency of kidney yin
	> Damp heat in the bladder
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models,
H-2410, C J	videos, supervised clinical practice.
Unit 10: Syndromes according to the theory of meridian & collaterals	Hours: 12
Sub-Unit 10.1: Pathological manifestation	Hours: 12
of the twelve meridians.	
Objectives:	Contents:
Describe pathological manifestation of the 12	Pathological manifestation of the twelve
regular meridians	meridians.
Describe diagnosis according to pathological	Methods of diagnosis according to the
manifestation of the 12 regular meridians.	pathological manifestation of the:
	> Lung meridian of Hand (TaiYin)
	> Large intestine meridian of Hand
	(YangMing)

	 Stomach meridian of foot (YangMing) Spleen meridian of foot (TaiYin) Heart meridian of Hand (Shaoyin) Small intestine meridian of Hand (TaiYang) Urinary Bladder meridian of foot (TaiYang) Kidney meridian of foot (ShaoYin) P pericardium meridian of Hand (JueYin) Sanjiao meridian of hand (Shaoyang) Gall Bladder meridian of foot (ShaoYang)
Evaluation methods: written and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration,
simulated settings.	return demonstration, anatomical models,
	videos, supervised clinical practice.

- 1. Diagnosis of traditional Chinese medicine (International acupuncture textbook).
- 2. World Federation of Acupuncture. (2016). *The art of acupuncture and moxibustion* (Proceedings of the International Conference).
- 3. Liu, G., & Hyodo, A. (n.d.). Fundamentals of acupuncture and moxibustion.
- 4. Hon, C. P. (n.d.). Introduction to diagnosis in traditional Chinese medicine.

Diagnosis in Acupuncture and Moxibustion (Practical)

Practical: 70 hrs. (2 hrs./week)

Unit: 1 Basic principles of diagnosis

2 hrs.

• Diagnose the disease according to four methods of diagnosis (Inspection, Listening and smelling, Inquiry, Palpation)

Unit 2: General inspection by observation

8 hrs.

Sub-Unit 2.1: Observation of the appearance

• Diagnose the disease according to the appearance (Red, Pale, Yellow, Blue, Dark gray, lustrous and Moist complexion), movement (gait) and posture.

Sub-Unit 2.2: Observation of the vitality/complexion/color

- Diagnosis of the disease according to different complexion (namely- normal complxion with permanent and temporary color, Diseased complexion favorable or unfavorable to five colors)
- Diagnosis of the disease according to five different diseased colors (namely-Blue, Red, Yellow, White, black)
- Diagnosis of disease according to luster and moistness of skin.

Sub-Unit 2.3: Observation of the mind

• Diagnose the disease according to the different stages of diseased mind and its significance (namely- Getting of Mind, Insufficient Mind, Loss of Mind, Pseudo Mind, mental disorder)

Sub-Unit 2.4: Observation of the Tongue

• Diagnose the disease according to the observation of the tongue according to moisture, color, shape, movement and coating of tongue.

Unit 3: Auscultation and olfaction

3 hrs.

Sub Unit 3.1: Listening

• Diagnose the disease according to the listening (Speech, respiration, and cough)

Sub-Unit 3.2: Smelling

• Diagnose the disease according to the smelling (Secretion and excretion)

Unit 4: General inquiry

8 hrs.

Sub-Unit 4.1: Chills and fever

• List the exterior and interior symptoms during chills & fever

Sub-Unit 4.2: Perspiration

• Diagnose the disease according to absence or present of sweat, sweat during sleep, spontaneous sweating and profuse sweating.

Sub-Unit 4.3: Appetite, thirst and taste

• Diagnose the disease according to indications of poor appetite, loss of appetite, excessive appetite, lack of thirst, presence of thirst, bitter taste, sweet taste, greasy taste, sour taste in mouth, lack of taste in mouth.

Sub-Unit 4.4: Defecation and urination

• Diagnose the disease according to different types of stools and urine and their frequency, consistency and sensation.

Sub-Unit 4.5: Pain

- Diagnose diseases according to presentation of different types of pain, namely-headache, chest pain, hypochondriac pain, abdominal pain, gastric pain, lumbago and pain in extremities.
- Diagnose the disease according to nature of pain (distending pain, stabbing pain, cold pain and burning pain), location of pain with their indications.

Sub-Unit 4.6: Sleep

• Diagnose the disease according to types and nature of sleep observed. Including insomnia and lethargy.

Sub-Unit 4.7: Menses and leucorrhoea

• Diagnose the disease according to the amount (profuse, scanty), color (Light red, Deep red and Purplish Dim), interval (preceded, delayed), dysmenorrhea (Qi or blood stagnation, qi or blood deficiency and cold retention) and leucorrhoea (white leucorrhoea, yellow leucorrhoea, reddish leucorrhoea).

Unit 5: Feeling of pulse & palpation at different parts of body

5 hrs.

Sub-Unit 5.1: Feeling of pulse & palpation of different parts of body

- Palpate and differentiate normal and abnormal pulse in rate, force, shape and rhythm.
- Palpate pulse on two regions, three regions and cun-kou.
- Palpate different abnormal pulses namely- floating, deep, slow, rapid, deficient, excess, wiry, moderate, knotted and intermittent pulse)
- List abnormalities related with palpation of pulse on epigastrium and abdomen.

Unit 6: Differentiation of syndromes

4 hrs.

Sub-Unit 6.1: Eight principles of Exterior & interior

 Diagnose the diseases by differentiating the syndromes according to exterior & interior manifestations of cold, heat, deficiency and excess types.

Unit 7: Syndromes according to eight principles

4 hrs.

Sub-Unit 7.1: Deficiency and excess

- Diagnose the diseases by differentiating the syndromes according to exterior-interior, deficiency-excess, cold-heat and yin-yang categories.
- Differentiate syndromes according to symptoms of exterior syndromes including exterior cold, exterior heat, exterior deficiency and exterior excess.
- Diagnose the disease according to cold & heat and deficiency & excess type

Sub-Unit 7.2: Yin and yang

• Diagnose the disease according to yin and yang and deficiency and collapse of yin and yang.

Unit 8: Syndromes according to the theory of Qi and blood

4 hrs.

Sub-Unit 8.1: Syndromes of Oi

• Diagnose the disease according to deficiency of qi, sinking of qi, stagnation of qi and perversion of qi.

Sub-Unit 8.2: Syndromes of blood

• Diagnose the disease according to deficiency of blood, stagnation of blood and heat in the blood.

Unit 9: Syndromes according to the theory of Zang Fu organs

20 hrs.

Sub-Unit 9.1: Syndromes of heart & small intestine

4 hrs.

- Diagnose the disease according to deficiency of the heart qi and deficiency of the heart Yang.
- Diagnose the disease according to deficiency of the heart blood and deficiency of the heart Yin.
- Diagnose the disease according to stagnation of the heart blood and deficiency of heart yin.
- Diagnose the disease according to hyperactivity of the heart fire.
- Diagnose the disease according to derangement of the mind
- Diagnose the disease according to pain due to disturbance of the gi of the small intestine

Sub-Unit 9.2: Syndromes of lung & large Intestine

4 hrs.

- Diagnose the disease according to the lung pathogenic wind.
- Diagnose the disease according to phlegm damp in the lung.
- Diagnose the disease according to phlegm heat in the lung.
- Diagnose the disease according to insufficiency of lung Yin.
- Diagnose the disease according to damp heat in the large intensine.
- Diagnose the disease according to the consumption of fluid of the large intestine.
- Diagnose the disease according to deficiency of the lung Qi

Sub-Unit 9.3: Complicated syndrome of the spleen & stomach.

4 hrs.

- Diagnose the disease according to the deficiency of the spleen.
- Diagnose the disease according to the deficiency of the spleen controlling Blood.
- Diagnose the disease according to the deficiency of the spleen Yang.
- Diagnose the disease according to the deficiency of spleen & Stomach.
- Diagnose the disease according to retention of Fluid in the stomach due to cold
- Diagnose the disease according to hyperactivity for fire in the stomach.
- Diagnose the disease according to insufficiency of the stomach.
- Diagnose the disease according to invasion of the spleen by cold & damp.
- Diagnose the disease according to damp heat in the spleen & stomach.

Sub-Unit 9.4: Syndromes of Liver and bladder

4 hrs.

- Diagnose the disease according to the stagnation of the liver qi.
- Diagnose the disease according to etiology and pathology of the liver qi.
- Diagnose the disease according to rising of the liver Yang
- Diagnose the disease according to the stirring of liver wind in the interior
- Diagnose the disease according to retention of cold in the lever.
- Diagnose the disease according to the insufficiency of the liver blood.
- Diagnose the disease according to the damp heat in the liver and gall bladder

Sub-Unit 9.5: Syndrome of Kidney and bladder

4 hrs.

- Diagnose the disease according to deficiency of kidney qi
- Diagnose the disease according to insufficiency of kidney yang
- Diagnose the disease according to insufficiency of kidney yin
- Diagnose the disease according to damp heat in the bladder

Unit 10: Syndromes according to the theory of meridian & collaterals

12 hrs.

Sub-Unit 10.1: Pathological manifestation of the twelve meridians.

• Diagnose the disease according to pathological manifestation of the lung meridian of Hand (Tai Yin)

- Diagnose the disease according to pathological manifestation of the large intestine meridian of Hand (Yang Ming)
- Diagnose the disease according to pathological manifestation of the stomach meridian of foot (Yang Ming)
- Diagnose the disease according to pathological manifestation of the spleen meridian of foot (Tai Yin)
- Diagnose the disease according to pathological manifestation of Heart meridian of Hand (Shaoyin)
- Diagnose the disease according to pathological manifestation of small intestine meridian of Hand (Tai Yang)
- Diagnose the disease according to pathological manifestation of Urinary Bladder meridian of foot (Tai Yang)
- Diagnose the disease according to pathological manifestation of Kidney meridian of foot (Shao Yin)
- Diagnose the disease according to pathological manifestation of pericardium meridian of Hand (Jue Yin)
- Diagnose the disease according to pathological manifestation of Sanjiao meridian of hand (Shaoyang)
- Diagnose the disease according to pathological manifestation of Gall Bladder meridian of foot (Shao Yang)
- Diagnose the disease according to pathological manifestation of Liver meridian of foot (Jue Yin)

Acupressure and Therapeutic Massage

Total: 210 hrs. (6 hrs./week) Theory: 140 hrs. (4 hrs./week) Practical: 70 hrs. (2 hrs./week)

Course Description:

This course is designed to provide comprehensive understanding of the science of Acupressure and Therapeutic massage and modes of applications in preventive, curative and rehabilitative therapy. The entire course intends to explain the practice, procedures, and precautions and develop essential skill of different applications of acupressure and therapeutic massages.

Course Objectives:

After completion of this course, students will be able to:

- 1. Explain the principles and historical background of acupressure and therapeutic massage;
- 2. Demonstrate the procedures of acupressure and therapeutic massage;
- 3. Explain physiological effects, indications, and contraindications of acupressure and therapeutic massage; and
- 4. Perform acupressure and massage to different parts of Body and in different medical conditions.

Course Contents:

Course: Acupressure and Therapeutic	
Massage	
Unit 1: Acupressure	Hours: 25
Objectives:	Contents:
Explain the acupressure with history, principle, importance, manipulation and application, General indications and contraindications, Precautions	 Acupressure; Brief History Definition Origin Principle Importance Manipulation Application General indications and contraindications Precautions
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration, flip
simulated setting.	chart, Acupressure Charts, models, videos,
	role play
Unit 2: Therapeutic massage	Hours: 37
Sub-Unit 2.1: Introduction and	Hours: 10
Classification of therapeutic massages	
Objectives:	Contents:
Define Massage and explain brief history of	• Therapeutic massage: Introduction, Brief
massage in different culture	history, Definition, Classification
Classify and define different massage types	• Origin and Principle – Tuina, Ayurvedic,
Explain and differentiate different massages techniques	Swedish, Kerali, Thai, Siatshu,

	 Classification of Massage according to medium – Oil, Salt, Powder, Dry, Stone, Water, Vibro massage Classification of Massage according to Culture: Newari, Tharu. Classification of massage according to age & conditions: baby massage, antenatal and postnatal massage: geriatric massages, trekkers massage, sport massages. Classification of Massage according body parts: Head massage, facial massage, Neck & shoulder massage, back massage, foot massage, Classification of Massage according to Purpose: Therapeutic and relaxing Massage
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration, flip
simulated setting.	chart, models, videos, role play
Sub-Unit 2.2: Basic Techniques	Hours: 15
Objectives:	Contents:
Define Therapeutic massage and basic	Define Basic Techniques & Procedures of
Techniques	massage
Procedures of basic technique of therapeutic	> Touching
massage	> Stroking
Explain and demonstrate basic techniques	FrictionVibration
Explain the principle and physiological	Kneading
effect of basic techniques	> Percussion
1	> Joint movements
	• Basic Techniques of massage on different parts of the body
	Principles and Physiological effects of
	different techniques of massage
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration, flip
simulated setting.	chart, models, videos, role play
Sub-Unit 2. 3: Operation procedure of	Hours: 12
Acupressure and Massage Therapy	
Objectives:	Contents:
Demonstrate and perform safe and effective	• Pre:
massage therapy.	> Preparation of massage rooms
	> Examination of patient
	> Position of patient
	• During:
	> Position of therapist
	> Appropriate Massage Technique
	> Safety precaution
	• Post:
	> Monitoring
	Counseling of patient

Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration, flip
simulated setting.	chart, models, videos, role play

Unit 3: TCM-diagnosis	Hours: 10
Sub-Unit 3 1: Taking case history and	Hours: 5
general examination	
Objectives:	Contents:
Explain importance of case history.	History taking
Explain method of taking case history.	Methods of general examination
Demonstrate method of general examination	
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration, flip
simulated setting.	chart, models, videos, role play
Sub-Unit 3.2: Diagnosis methods	Hours: 5
Objectives:	Contents:
Give brief description about importance of	 Principal and importance of TCM-
diagnosis.	diagnosis
Demonstrate method of acu-diagnosis.	• Method of TCM-diagnosis.
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration, flip
simulated setting.	chart, models, videos, role play
Unit 4: Musculoskeletal Disorders	Hours: 37
(Modern and TCM Concept)	
Sub-Unit 4.1: Osteoarthritis, Rheumatic arthritis, Gout	Hours: 5
Objectives:	Contents:
Define osteoarthritis and rheumatoid arthritis	Definition, etiologies, classifications,
and gout.	clinical features, complications and referral
	indications of osteoarthritis, rheumatoid
Describe clinical features.	arthritis and gout.
Explain the indications for referral to a higher-level facility.	• Treatments prevention, control through Massage and Acupressure
Explain the role of Acupressure and massage.	
Perform acupressure and massage for the management of osteoarthritis, rheumatoid arthritis and Gout.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 4.2 Back and Neck Pain	Hours: 5
Objectives:	Contents:
Explain the etiologies, classifications,	Definition, etiologies, classifications,
	l = = = = = = = = = = = = = = = = = = =
clinical features, complications and referral indications of Back and Neck Pain.	clinical features, complications and referral

T	
Explain the role of Acupressure and massage for the management of acute and chronic back and neck pain.	Treatments prevention, control through Massage and Acupressure
Perform acupressure and massage for acute and chronic back and neck pain.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 4.3: Problems of ligaments,	Hours: 27
tendons, Fascia and muscles	
Objectives:	Contents:
Explain the etiologies, classifications, clinical features, complications and referral indications Explain the role of Acupressure and massage for the management of acute and chronic	 Definition, etiologies, classifications, clinical features, complications and referral indications of: De Quervain's Diseases Carpal Tunnel Syndrome
back and neck pain.	> Golfer's Elbow
Perform acupressure and massage for acute	> Tennis Elbow
and chronic back and neck pain.	> Frozen Shoulder
and emonic odek and neek pain.	> Planter Fascitis
	TorticollisCostochondritis
	> Fibromyalgia
	Sprain, Strain
	> Bursitis
	Treatments prevention, control through
	Massage and Acupressure
Evaluation methods: written and viva	Teaching/Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and demonstration, flip
simulated setting.	chart, models, videos, role play
Unit 5: Disorders of Nervous System	Hours: 12
(Modern and TCM Concept)	
Sub-Unit 5.1: Bell's Palsy	Hours: 4
Objectives:	Contents:
Explain the etiologies, classifications, clinical features, complications and referral indications of Bell's Palsy.	• Definition, etiologies, classifications, clinical features, complications and referral indications of Bell's palsy.
Explain the role of Acupressure and massage for the management of Bell's Palsy.	• Treatments prevention, control through Massage and Acupressure
Perform acupressure and massage for Bell's Palsy.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 5.2: Paralysis	Hours: 4
Objectives:	Contents:

Explain the etiologies, classifications, clinical features, complications and referral indications of Paralysis. Explain the role of Acupressure and massage for the management of Paralysis.	 Definition, etiologies, classifications, clinical features, complications and referral indications of Paralysis. Treatments prevention, control through Massage and Acupressure.
Perform acupressure and massage for Paralysis.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 5.3: Cerebro-vascular accident (CVA)	Hours: 4
Objectives:	Contents:
Explain the etiologies, classifications, clinical features, complications and referral indications of Cerebro-vascular accident (CVA).	• Definition, etiologies, classifications, clinical features, complications and referral indications of Cerebro-vascular accident (CVA).
Explain the role of Acupressure and massage for the management of Cerebro-vascular accident (CVA).	 Treatments prevention, control through Massage and Acupressure.
Perform acupressure and massage for Cerebro-vascular accident (CVA).	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction, supervised clinical practice
Unit 6: Psychological Disorders (Modern and TCM Concept)	Hours: 19
Sub-Unit 6.1: Depression	Hours: 3
Objectives:	Contents:
Explain the etiologies, classifications, clinical features, complications and referral indications of Depression	• Definition, etiologies, classifications, clinical features, complications and referral indications of Depression.
Explain the role of Acupressure and massage for the management of Depression	• Treatments prevention, control through Massage and Acupressure.
Perform acupressure and massage for Depression.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 6.2: Anxiety Disorder	Hours: 3
Objectives:	Contents:
Explain the etiologies, classifications, clinical features, complications and referral indications of anxiety disorder	Definition, etiologies, classifications, clinical features, complications and referral indications of anxiety disorder. Treatments prevention, control through
Explain the role of Acupressure and massage for the management of anxiety disorder	• Treatments prevention, control through Massage and Acupressure.

Perform acupressure and massage for anxiety disorder.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 6.3: Mood Disorder	Hours: 3
Objectives:	Contents:
Explain the etiologies, classifications, clinical features, complications and referral indications of Mood Disorder	Definition, etiologies, classifications, clinical features, complications and referral indications of Mood Disorder.
Explain the role of Acupressure and massage for the management of Mood Disorder	• Treatments prevention, control through Massage and Acupressure.
Perform acupressure and massage for Mood Disorder	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 6.4: Sleep disorders	Hours: 3
Objectives:	Contents:
Explain the etiologies, classifications, clinical features, complications and referral indications of sleep disorders	• Definition, etiologies, classifications, clinical features, complications and referral indications of sleep disorders.
Explain the role of Acupressure and massage for the management of sleep disorders	• Treatments prevention, control through Massage and Acupressure.
Perform acupressure and massage for sleep disorders	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 6.5: Chronic Fatigue Syndrome	Hours: 3
Objectives:	Content:
Explain the etiologies, classifications, clinical features, complications and referral indications of chronic fatigue syndrome	Definition, etiologies, classifications, clinical features, complications and referral indications of chronic fatigue syndrome
Explain the role of Acupressure and massage for the management of chronic fatigue syndrome	Treatments prevention, control through Massage and Acupressure.
Perform acupressure and massage for chronic fatigue syndrome	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 6.6: Psychosomatic Disorders	Hours: 4
Objectives:	Contents:

Explain the etiologies, classifications, clinical features, complications and referral indications of Psychosomatic Disorders Explain the role of Acupressure and massage for the management of Psychosomatic Disorders Perform acupressure and massage for Psychosomatic Disorders	 Definition, etiologies, classifications, clinical features, complications and referral indications of Psychosomatic Disorders Treatments prevention, control through Massage and Acupressure.
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice? hours 160

- 1. Jarmey, C., & Tindall, J. (n.d.).
- 2. Kellogg, J. H. (n.d.). The art of massage.

Acupressure and Therapeutic Massage (Practical)

Practical: 70 hrs. (2 hrs./week)

Perform the followings:

Unit 1: Basic Techniques of Acupressure & Therapeutic Massage 20 hrs. Perform Acupressure & Therapeutic Massage techniques on different parts of the body:

- Touching
- Stroking
- Friction
- Vibration
- Kneading
- Percussion
- Joint movements

Unit 2: Procedure of Acupressure and Massage Therapy:

10 hrs.

Pre:

- Preparation of massage rooms
- Examination of patient
- Position of patient

During:

- Position of therapist
- Appropriate Massage Technique
- Safety precaution

Post:

- Monitoring
- Counseling of patient

Unit 3: Taking case history and general examination:

2 hrs.

- Perform history taking
- Perform general examination

Unit 4: Diagnosis methods:

2 hrs.

Perform TCM-diagnosis.

Unit 5: Perform Acupressure and oriental therapeutic massage

6 hrs.

Sub-Unit 5.1: musculoskeletal disorders

- Osteoarthritis
- Rheumatoid Arthritis
- Gouts

Perform

- Back Pain
- Neck Pain

• De Quervain's Diseases (DQT)

10 hrs.

- De Quei vain 3 Diseases (E
- Carpal Tunnel Syndrome
- Golfer's Elbow
- Tennis Elbow
- Frozen Shoulder
- Planter Fascitis
- Torlicollis

- Fibromyalgia
- Sprain, Strain
- Bursitis

Sub-Unit 5.2: Disorders of Nervous System:

5 hrs.

- Bell's Palsy
- Paralysis
- Cerebro-vascular accident (CVA)

Sub-Unit 5.3: Psychological Disorders:

15 hrs.

- Depression
- Anxiety Disorder
- Mood Disorder
- Sleep disorders
- Chronic Fatigue Syndrome
- Psychosomatic Disorders

Acupuncture and Moxibustion Therapeutics I

Total: 210 hrs. (6 hrs./week) Theory: 140 hrs. (4 hrs./week) Practical: 70 hrs. (2 hrs./week)

Course Description:

This course is designed to impart knowledge and skills about therapeutics of acupuncture and moxibustion.

Course Objectives:

After completion of this course, students will be able to:

- 1. Diagnose the disease;
- 2. Select point and acupuncture prescription;
- 3. Treat disease according to basic principles; and
- 4. Perform therapeutic method.

Course Contents:

THEORY	
Course: Acupuncture and Moxibustion Therapeutics I	
Unit 1: General Principles of Acupuncture Treatment	Hours: 12
Objectives:	Contents:
Explain yin and yang Describe the general principles of treatment	 Importance of regulation of yin and yang. Strengthening the body resistance & eliminating the pathogenic factors. Distinguishing the primary from secondary Treatment of disease according to climatic & seasonal condition, geographical location & the individual conditions.
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Unit 2: Therapeutic Methods	Hours: 12
Objectives:	Contents:
Describe the common therapeutic methods used in acupuncture treatment	 Indications and contraindications of following therapeutic methods: Reinforcing Reducing Warming Clearing Ascending Descending

Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Unit 3: Basic Principle Governing Prescription and Combination of Points	Hours: 18
Sub-Unit 3.1: Selection of Points	Hours: 8
Objectives:	Contents:
Describe the ways for selecting points in clinical practice Explain indications of point selection according to the course of channel.	 Concept and indications of point selection based on: Selection of Symptomatic Points Selection of Local Points Selection of Adjacent Points Distant Points
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Sub-Unit 3.2: Application of Specific Points	Hours: 10
Objectives:	Contents:
Describe the ways of applying specific points as per disease conditions. Explain the use of specific points of four contrapition	 Indications and contraindications of following: Specific points on four extremities Five Shu Points Lower He Sea Points of six fu organs
extremities Describe the specific points on the head and trunk	 The Yuan Primary Points The Luo Connecting Points The Xi-Cleft Points
Explain about the method of combination of the specific points	 The Confluent Points Specific Points on Head and Trunk Back Shu Points Front-Mu Points The Influential Points The Crossing Points
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, supervised, observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Unit 4: Treatment of Common Conditions with Acupuncture and Moxibustion	Hours: 98

Sub-Unit 4.1: Emergency Conditions	Hours: 15
Objectives:	Contents:
Explain in detail about common emergency conditions, their diagnosis and management	 Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of: Wind stroke Syncope
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Sub-Unit 4.2: Diseases of Respiratory System	Hours: 20
Objectives:	Contents:
Explain respiratory system Describe respiratory disorder Diagnose and manage respiratory disorders	 Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of: Cough Common Cold/ Asthma Hoarseness of voice
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Sub-Unit 4.3: Diseases of Digestive System	Hours: 18
Objectives:	Contents:
Explain digestive system Describe digestive disorders Diagnose and manage digestive disorders	 Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of: Hiccup Epigastric Pain Diarrhea (for recurrent type only) Toothache
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Sub-Unit 4.4: Diseases of Central Nervous System (CNS)	Hours: 45

Objectives:	Contents:
Explain central nervous system (CNS) Describe CNS disorder Diagnose and manage CNS disorders .	 Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of: Headache Insomnia Epilepsy Dizziness Facial Pain Facial Paralysis Wei syndrome Manic Depressive Disorder
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, supervised, observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play*

- 1. Althea Press. (2019, August). A patient's guide to acupuncture.
- 2. Darycott LLC. (2017, March). Acupuncture points handbook.
- 3. Blue River Press. (2014, January). The concise book of acupoints.
- 4. Journal of Chinese Medicine. (2007, June). A manual of acupuncture (2nd ed.).

Acupuncture and Moxibustion Therapeutics I (Practical)

Practical: 70 hrs. (2 hrs./week)

Perform the followings:

Unit I: Clinical practice of the common therapeutic methods

20 hrs.

History & Physical:

- 1. Take history:
 - a. Establish trust with the patient/family
 - b. Elicit complete data related to chief complaint, social/personal/demographic data, immunization/diseases, surgical, family history.
- 2. Perform physical examination:
 - a. Vital signs / tongue and pulse diagnosis as per TCM diagnostic methods
 - b. Assess Jaundice, Anemia, Lymph node enlargement, Clubbing, Cyanosis, Oedema and Dehydration (JALCCOD)
 - c. Evaluate mental status/cognition/mood
 - d. Examine the condition of the body systems through inspection, auscultation, inquiring and palpation
- 3. Syndrome differentiation as per the basic concept of TCM.
- 4. Select appropriate treatment principle and therapeutic method and acupoints as per the syndrome differentiation

Unit II: Application of Specific Points

10 hrs.

1. Use of specific points on head and trunk and four extremities as per the syndrome diagnosed by TCM concept

Unit III: Treatment of Common Diseases with Acupuncture and Moxibustion 40 hrs.

- 1. Use TCM methods of diagnosis to differentiate syndrome and treatment of following diseases and conditions
 - A. Emergency Conditions:
 - i. Wind stroke
 - ii. Syncope
 - B. Respiratory System Diseases and conditions:
 - i. Common Cold
 - ii. Cough
 - iii. Asthma
 - iv. Hoarseness of voice
 - C. Digestive System Diseases and conditions:
 - i. Hiccup
 - ii. Epigastric Pain
 - iii. Diarrhea
 - iv. Constipation
 - v. Toothache
 - D. Central Nervous System Diseases and conditions
 - i. Headache
 - ii. Insomnia
 - iii. Epilepsy
 - iv. Dizziness
 - v. Facial pain
 - vi. Facial paralysis
 - vii. Wei syndrome
 - viii. Manic-depressive Disorder

Clinical Pathology

Total: 140 hrs. (4 hrs./week) Theory: 70 hrs. (2 hrs./week) Practical: 70 hrs. (2 hrs./week)

Course Description:

This intends to provide knowledge and skills about basic Microbiology, Parasitology, Hematology, Biochemistry (clinical pathology) in general.

Course Objectives:

After completion of this course, students will be able to:

- 1. Describe different kinds of microorganisms related to human diseases;
- 2. Describe different kinds of parasites and their pathogenic effects to a human body;
- 3. Describe the formation and functions of different components of blood;
- 4. Describe the biochemical processes of different kinds of foods in our body;
- 5. Identify the role of vitamins & enzymes in our body; and
- 6. Perform basic microbiological, biochemical and hematological tests in the laboratory setting.

Weightages:

(Microbiology: 25%, Parasitology: 25%, Hematology: 20%, Biochemistry: 30%)

Course Contents:

Course: Clinical Pathology	
Unit 1: Medical microbiology	Hours: 18
Sub-Unit 1.1: General Introduction to	Hours: 7
Microbiology	
Objectives:	Contents:
Describe the classification of microorganisms Describe the morphology of bacteria. Describe the morphology of virus Describe the morphology of fungi Describe the morphology of parasitic protozoa/helminthes in general.	 Classification of microorganisms: bacteria, viruses, fungi, protozoans and helminths Morphology of different kinds of microorganisms-cocci, bacilli, vibrio, spiral, and spirochaetes. Morphology of virus: polyhedral, helical, hexagonal and spherical. Morphology of fungi: yeasts and molds. Morphology of parasitic protozoa/Helminthes in general. Name the corresponding causative organisms of each of the following disease: At least 20 different bacterial diseases. At least 10 rungal diseases. At least 5 protozoan diseases. At least 10 Helminthes diseases.
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
	book self-study, journals, laboratory practice,
	appropriate visual means for morphology of
	different microorganisms.
Sub-Unit 1.2: Basic bacteriological	Hours: 5
investigations	
Objectives:	Contents:

Explain the theory & principle of Gram staining. Perform Gram staining according to guidelines. Explain the theory & principle of acid-fast bacillus (AFB) staining. Perform AFB staining according to guidelines. Define culture and culture media. List culture media for bacteria, viruses, and fungi.	 Theory, principles and procedure for Gram staining. The theory, principle and procedure of acid-fast bacillus (AFB) staining. Concept of culture and culture media. Cultivation techniques of bacteria, viruses and fungi. Methods for antibiotic susceptibility testing: Tube dilution technique. Paper diffusion technique.
Describe methods for antibiotic susceptibility testing.	
Evaluation methods: Written examination, viva, observation of performance in lab	Teaching / Learning Activities/Resources: Classroom instruction, textbook/reference book self-study, journals, laboratory practice
Sub-Unit 1.3: Bacterial growth and sterilization	Hours: 6
Objectives:	Contents:
Define bacterial growth and generation time.	Definition of Bacterial growth
Describe factors influencing bacterial growth. Define sterilization.	 Characteristics, generation time and factors influencing bacterial growth. Sterilization. Physical methods of sterilization Moist heat (steam under pressure and
Describe physical methods of sterilization. Describe chemical methods of sterilization.	 fractional sterilization) Dry heat (hot air sterilization, incineration) Radiation (x- rays, gamma rays, cathode rays,) Filtration.
	• Chemical methods of sterilization (formaldehyde, glutaraldehyde, ethylene oxide, β– propiolactone)
Evaluation methods: Written examination, viva, observation of performance in lab	Teaching / Learning Activities/Resources: Classroom instruction, textbook/reference book self-study, journals, laboratory practice
Unit 2: Medical parasitology	Hours: 18
Sub-Unit 2.1: Intestinal Parasites	Hours: 8
Objectives:	Contents:
Describe mode of infection, pathogenicity, laboratory diagnosis and preventive measures of intestinal parasites.	 Mode of infection, pathogenicity, laboratory diagnosis and prevention of intestinal parasites. Ascaris Hookworm Trichuris Enterobius Taenia Echinococus Hymenolepis

	> Entamoeba
	> Giardia
	> Trichomouas.
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
	book self-study, journals, laboratory practice,
	slides
Sub-Unit 2.2: Blood and tissue parasites	Hours: 6
Objectives:	Contents:
Describe modes of infection, pathogenicity, laboratory diagnosis and preventive measures for blood and tissue parasites.	 Modes of infection, pathogenicity, laboratory diagnosis and prevention of blood and tissue parasites of body. Plasmodium Leishmania Wuchereria
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
F	book self-study, journals, laboratory practice,
	slides
Sub-Unit 2.3: Defense mechanisms of the	Hours: 4
body	110415.
Objectives:	Contents:
Describe the defense mechanisms of body	Definition of Defense mechanism
(individually, specific and non-specific).	 Different kinds of defense mechanisms of body. External defense mechanisms of body.
Identify external defense mechanisms of body.	Skin, mucous membranes and other mechanical barriers.
Describe non-specific defense mechanisms of body (interferon, phagocytosis, complement and proprederin, Natural Killer (NK) cells). Describe specific defense mechanisms of	 Coughing, sneezing, perspiring and related processes. Non-specific defense mechanisms of body (interferon, phagocytosis, complement and proprederin, Natural Killer (NK) cells). Specific defense mechanisms of body (active and passive immunity and their types).
body (active and passive immunity and their types).	Antigens and antibodies with examples, types of antibodies (immunoglobulins).
Define antigens and antibodies and give examples of each.	Terminology related to defense mechanisms of body: Terminology related to defense mechanisms of body:
•	> Immunology
Describe the types of antibodies	> Rh factor
(immunoglobulins).	Gammaglobulia
	> Immune System
	> Active Immunity
	> Phagocyte
	Passive Immunity
	> Chemotaxis
	> Histamine
	> Chemoattractant
	> Opsin
	> Complement
	> Antigen
	> B-lymphocyte
	> T-lymphocyte
	> Natural Killer cells
	/ Ivaluiai ixinci cello

	A41h o .dex
	AntibodyImmunoglobulin
	ImmunoglobulinOncogene
	> Memory Cell
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
71.00, 00001.00000 01 posteriore in the	book self-study, journals, laboratory practice
Unit 3: Hematology	Hours: 12
Sub-Unit 3.1: Blood and anticoagulants.	Hours: 12
Objectives:	Contents:
Describe the general composition of blood.	Definition of blood, General composition.
Describe the formation mechanism of RBC, WBC, Platelets and plasma.	• Formation mechanism of RBC, WBC, Platelets and plasma
List functions of WBC, RBC, and plasma cells.	 Functions of WBC, RBC, and plasma cells. Structure, function, estimation (Shali's method) and normal values of hemoglobin.
Describe the structure, function, estimation (Shali's method) and normal values of hemoglobin.	 Methods of blood collection for: Hematological investigations. Biochemical investigations.
Describe methods of blood collection.	 Microbiological investigations.
Define anticoagulants, their types and use.	Anticoagulants, their types and useTest method (Bulk dilution and Pipette
Describe test method (Bulk dilution and Pipette dilution) for WBC total count, testmethod for WBC differential count with their normal values	 dilution) for WBC total count, test-method for WBC differential count with their normal values. Test methods (Wintrobe method) and
Describe test methods (Wintrobe method) and normal value of erythrocyte sedimentation rate (ESR) of blood.	normal value of erythrocyte sedimentation rate (ESR) of blood.
Evaluation methods: Written examination, viva, observation of performance in lab	Teaching / Learning Activities/Resources: Classroom instruction, textbook/reference book self-study, journals, laboratory practice
Unit 4: Clinical Biochemistry	Hours: 22
Sub-Unit 4.1: Carbohydrates	Hours: 4
Objectives:	Contents:
Define carbohydrates.	Definition
Classify carbohydrates.	• Classification
•	> Monosaccharides
Describe digestion and absorption of carbohydrates.	 Depending upon number of carbon atoms
Describe functions of carbohydrates	 Depending upon aldehyde or ketone group Disaccharides Oligosaccharides Polyasaccharides Homopolysaccharides Heteropolysaccharides. Digestion and absorption of carbohydrates Functions of carbohydrates

Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
C 1 II '442 B 4 '	book self-study, journals, laboratory practice
Sub-Unit 4.2: Proteins	Hours: 4
Objectives:	Contents:
Define proteins	• Definition of proteins
Explain the Classify proteins	 Classification of proteins on the basis of shape and size (fibrous
Write down the reactions involved during digestion of proteins.	and globular proteins)On the basis of functional properties
Describe function of protein.	 (defense, contractile, respiratory, structural, enzymes, hormones). > On the basis of solubility and physical properties. Simple proteins –protamines, histones albumins, globulins,
	gliadines (prolamines), glutelins, scleroproteins or albuminoids, etc. Conjugated proteins – nucleoproteins, mucoproteins,
	glycoproteins, phosphoproteins, chromoproteins (hemo-, flavo and visual purple proteim), lipoproteins, metalloproteins, etc. O Derived proteins (from simple and conjugated proteins) - coagulated proteins cooked meat, cooked egg
	albumin and alcohol precipitated proteins, proteoses, peptones, peptides. > Reactions involved during digestion of proteins. > Functions of Protein.
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
C 1 H 442 I 11	book self-study, journals, laboratory practice
Sub-Unit 4.3: Lipids	Hours: 4
Objectives:	Contents:
Define lipids	Definition of lipids Classification of lipids
Describe the Classify lipids	 Classification of lipids Simple lipids – neutral fats, waxes
List chemical properties of lipids	 Simple lipids – lieutai lais, waxes Compound lipids- phospholipids,
Describe digestion (biochemical reactions) and absorption of lipids.	glycolipids, sulfolipids, aminolipids and lipoproteins.
Define cholesterol and list its physiological roles.	 Derived lipids- several fatty acids, mono and di – glycerides, alcohols, etc. Miscellaneous – carotenoids, squalene, Vitamins E and K, etc.
	 Chemical properties of lipids. Digestion (biochemical reactions) and absorption of lipids.

	Cholesterol and list its physiological roles.
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
	book self-study, journals, laboratory practice
Sub-Unit 4.4: Enzymes	Hours: 3
Objectives:	Contents:
Define enzymes.	Definition of enzymes.
Classify enzymes	Classification of enzymes into the six basic
Define isoenzymes with examples.	types – oxidoreductases, hydrolases,
Define isochizymes with examples.	ligases (synthetases), transferases, lyases,
	isomerases.
Evaluation methods: Written examination,	• Definition of isoenzymes with examples.
viva, observation of performance in lab	Teaching / Learning Activities/Resources: Classroom instruction, textbook/reference
viva, observation of performance in lab	book self-study, journals, laboratory practice
Sub-Unit 4.5: Vitamins	Hours: 4
Objectives:	Contents:
Define vitamins.	Definition of vitamins.
List general properties of vitamins.	General properties of vitamins.
	• Classification vitamins – fat-soluble and
Classify vitamins – fat-soluble and water-	water-soluble.
soluble.	Sources of each vitamin.
List sources of each of the vitamins.	• Importance of each vitamin.
Describe importance of all vitamins.	
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
	book self-study, journals, laboratory practice
Sub-Unit 4.6: Hormones	Hours: 3
Objectives:	Contents:
Define hormones.	Definition.
Describe the Classify Hormones	• Classification.
Describe functions of hormones.	• Functions of hormones.
Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
viva, observation of performance in lab	Classroom instruction, textbook/reference
	book self-study, journals, laboratory practice

Recommended Texts:

- 1. Pokhrel, B. (n.d.). A handbook of clinical microbiology. Gorakhnath Desktop Printing and Support.
- 2. Gupta, R. K., & Yadav, B. K. (n.d.). *A textbook of medical laboratory technology* (Vols. I & II). Samikshaya Books.
- 3. Chatterjee, K. D. (1981). Parasitology. Chatterjee Medical Publishers.
- 4. Chatterjea, M. N., & Shinde, R. (1998). Textbook of medical biochemistry. Jaypee Brothers Medical Publishers.
- 5. Chevalking, H., Tuladhar, T., & Shrestha, U. (1992). Integrated sciences. Health Learning Materials Centre.

References:

Paniker, C. K. (1993). Textbook of medical parasitology. Jaypee Brothers Medical Publishers.

Clinical Pathology (Practical)

Practical: 70 hrs. (2 hrs./week)

Perform the followings:

- 1. Identify handling techniques of different laboratory goods.
- 2. Perform gram stain and AFB stain.
- 3. Perform stool examination for ova, cyst and parasites.
- 4. Perform microscopic examination of urine for urinary deposits.
- 5. Perform chemical examination of urine for sugar, albumin and pregnancy test.
- 6. Demonstrate urine test for ketone bodies and bile pigment.
- 7. Demonstrate urine test for bile salt and urobilinogen.
- 8. Demonstrate blood glucose determination.
- 9. Demonstrate urea estimation.
- 10. Perform preparation, staining and examination of thick and thin blood smears.
- 11. Estimate hemoglobin level.
- 12. Demonstrate TLC, DLC and ESR of blood.
- 13. Perform Blood grouping.
- 14. Perform Reference ranges of mention parameters:
 - Blood Sugar (Fasting, random & Post Prandial)
 - Renal Function Test (RFT): Urea, Creatinine, sodium, potassium, calcium, uric acid
 - Liver Function Test (LFT): Bilirubin total and direct, SGPT, SGOT, Alkaline Phosphatase, Total Protein, albumin, Globulin and A: G Ratio
 - Lipid Profile: Total Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol, VLDL Cholesterol.
 - Cardiac profile: CPKMB, LDH, SGOT, CPK-NAC.
 - Serum amylase
 - Thyroid Function Test (TFT): T3, T4 and TSH

Concept of General Medicine

Total: 140 hrs.(4 hrs./week) Theory: 70 hrs. (2 hrs./week) Practical: 70 hrs. (2 hrs./week)

Course Description:

This course begins with an in-depth presentation on the diagnostic process applied to the history and physical examination of the patient, and includes assessments specific to each system. Medicine I presents a basic review of selected conditions and disorders from areas of internal medicine, including: hematological, cardiovascular, respiratory, gastrointestinal, endocrine, hepatic, nervous, and genitourinary systems. Additionally, communicable diseases common to Nepal are individually discussed. For each disease or condition this course examines etiologies, clinical features, differential diagnosis, management at the health post level, indications for referral, and preventive education.

Course Objectives:

After completion of this course, students will be able to:

- 1. Perform a thorough history and physical examination, and analyze and interpret the findings to make a rational provisional diagnosis;
- 2. Identify the etiologies, pathology and clinical features of common systemic disorders and communicable diseases;
- 3. Describe the management and counseling for common systemic disorders and communicable diseases;
- 4. Identify indications that a case requires referral to a higher level or specialty facility; and
- 5. Identify and implement opportunities for health education, prevention measures, or rehabilitation.

Course Contents:

Course: Concept of General Medicine	
Unit 1: Clinical Methods	Hours: 2
Sub-Unit 1.1: History taking & Physical	Hours: 2
Examination	
Objectives:	Contents:
Establish trust with the client/family by	History taking & Physical Examination
making introductions, showing respect,	Principles and procedures for collecting
listening attentively, and remaining non-	and interpreting clinical data.
judgmental.	Procedure of general physical examination
Perform history taking and clinical	and systemic examinations in regard to all
examination	systems.
	Bedside history and clinical examination
Explain why it is essential to ask about and	practice.
examine all systems of the subject, rather	> Medical,
than only the system.	> Surgical,
Use a diagnostic decision diagram to develop	> Obstetrics,
a provisional diagnosis.	> Gynecology,
Explain the purpose of investigations in	> Psychiatrics,
differentiating diagnosis.	> Pediatrics
anti-tendenting anaginosis.	> Dental
	> Eye

Discuss the meaning and implication of "false positive" and "false negative" findings. Perform a minimum of 10 history taking and physical examinations with provisional diagnosis and case management details. Evaluation methods: written exam, viva, performance exam in clinical setting, Unit 2: Hematological & Cardiovascular Conditions	 Ear, Nose and Throat Dermatology Explanation regarding instruments and apparatus (Stethoscope, Sphygmomanometer, Tuning-fork, Hammer) used while performing general physical examination. Teaching/Learning Activities/Resources: classroom instruction, practice in a simulated setting, supervised clinical practice Hours: 16
Sub-Unit 2.1: Anaemia	Hours: 4
Objectives:	Contents:
Define anaemia and tell the cardinal signs of anaemia. Discuss the incidence of anaemia. Discuss the causes, symptoms and clinical features of common forms of anaemia: 1. Iron deficiency anaemia. 2. Megaloblastic anaemia 3. Aplastic anaemia 4. Haemolyticanaemia 5. Thalassemia 6. Sickle cell anemia 7. Heamophilia A and B 8. Anemia of chronic disease Identify investigations for diagnosing anaemia Identify complications of anaemia. Describe the management and prevention of common types of anaemia.	 Anaemia Incidence of anaemia in Nepal and the socio-cultural factors which contribute to anaemia. Classifications of anemia: Haemolyticanaemia. Thalassemia Sickle cell anemia Megaloblastic anaemia. Heamophilia A and B Iron Deficiency Anaemia – Definition, Signs and Symptoms, Causes, Diagnosis, Treatment, and Complications Anemia of chronic disease (Discussion) Normal value of hemoglobin, RBC, WBC, Platelet.
Evaluation methods: written exam, viva, performance observation in clinical setting, Assignment reports. Sub-Unit 2.2: Haemostatic &	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice with simulated patient, reference books, Hours: 4
atherosclerotic disorders	
Objectives:	Contents:
Describe the incidence and pathology of common haemostatic disorders and atherosclerotic occlusive disorders. Discuss Major Modifiable risk factors and non-modifiable risk factors for heart diseases. Describe the clinical features	 Haemostatic & atherosclerotic disorders Classification of bleeding disorder (Explain) Etiologies, incidence, complications, management, and referral of haemostatic disorders and atherosclerotic occlusive disorders. (Discuss)

Discuss the treatment and complications of haemostatic disorders and atherosclerotic occlusive disorders. (Definition)	
Identify indications for referral to a higher-level facility.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice

Sub-Unit 2.3: Cardiac disorders – angina, infarction, arrhythmia, valvular diseases	Hours: 4
Objectives:	Contents:
Discuss the etiologies and incidence of each: 1. Angina 2. Myocardial infarction 3. Valvular disorders Describe the pathology, cardinal signs and clinical features of each of the above. Discuss differential diagnosis of above conditions. Identify indications for immediate referral to a higher-level facility. Describe measures to stabilize a patient experiencing M.I. before referral. Describe the advice and emergency	Angina, Infarction, Arrhythmia, Valvular diseases • Etiologies, diagnosis, emergency management, referral, stabilization in cases of: > Angina (discuss) > Myocardial infarction (Definition, Causes, Signs & Symptoms, Diagnosis, Treatment, and Possible Complications) > Valvular disorders (classification) • Perform physical examination of the cardiovascular system.
management of these conditions	
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Sub-Unit 2.4: Cardiovascular disorders –	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 2
Hypertension	
Objectives:	Contents:
Define hypertension, tell the cardinal signs, and explain the different classifications. Discuss the incidence of hypertension and complications of untreated hypertension. Identify the etiologies and clinical features of common forms of hypertension. I. Identify investigations necessary for differential diagnosis. Discuss common drugs used in the management of the chronic hypertension and their side effects in brief. Tell how to manage hypertensive emergencies. Describe how to manage the uncomplicated case of hypertension.	 Hypertension Definition, incidence, etiologies, classifications, clinical features, investigations, complications, hypertensive emergency management, general management of hypertension and referral indications. Measurement of the blood pressure in midupper arm and interpretation. Show X-ray chest-cardiomegaly. Role of life style & yoga in prevention and control of hypertension. Hypertensive crisis.

5. Explain the role of life style & yoga in	
prevention and control of hypertension.	
6. Identify indications for referral.	
7. Identify and manage hypertensive crisis.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice

Sub-Unit 2.5: Cardiovascular disorders - Congestive cardiac failure	Hours: 2
Objectives:	Contents:
Review the anatomy and physiology of the heart and related organs Describe the development and condition of congestive cardiac failure (CCF). Identify the cardinal signs, etiologies, clinical features and pathology of CCF. Identify/Physical findings & signs in Heart failure. Identify the investigations necessary for differential diagnosis. Describe the complications of CCF. Describe the management of simple cases of CCF. Explain non pharmacologic approach in the management of Congestive heart failure.	 Congestive cardiac failure Anatomy and physiology of heart and related organs. Classification of Heart Failure – Detailed Overview of Right-Sided and Left-Sided Heart Failure Definition, etiology, pathology, clinical features, investigation, complication, differential diagnosis, and management of CCF. Show the x-ray film of chest (Cardiomegaly). Non pharmacologic approach in the management of congestive heart failure. X-ray & ECG of patient.
Identify indications for prompt stabilization and referral to a higher-level facility.	
Evaluation methods: written exam, spotting, viva, performance observation in clinical setting Unit 3: Respiratory Disorders	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 12
Sub-Unit 3.1: Bronchitis	Hours: 2
Objectives: Define bronchitis, tell the cardinal signs and discuss the incidence. Identify etiology, pathology and clinical features of bronchitis. Identify investigations necessary for differential diagnosis. Identify complications of bronchitis. Explain how the incidence of chronic bronchitis can be reduced by preventive measures.	 Contents: Bronchitis Definition, etiology, pathology, clinical features, differential diagnosis, complication and management of bronchitis. Investigations for acute bronchitis: Complete Blood Count (CBC) TLC (Total leucocytes count) DLC (Differential leucocytes count) Sputum for culture and sensitivity CXR

Describe the management of diagnosed cases of acute bronchitis and indications for referral to a higher-level facility.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 3.2: Chronic Obstructive Pulmonary Disease (COPD)	Hours: 2
Objectives:	Contents:
Define COPD and discuss the incidence of this condition.	Definition, aetiology, clinical features, differential diagnosis, investigations,
Identify the aetiology, pathology, cardinal signs and clinical features of COPD.	management, complications and indications for referral of the case of COPD.
Identify the investigations necessary for differential diagnosis.	Component disorders:chronic bronchitis
Describe how to manage a case of COPD with available resources.	emphysemaasthmaComplications of COPD
Identify complications of COPD.	> corpulmonale
Identify indications for referral.	Describe how to prevent COPD.
List community actions or health education aimed at reducing the incidence of COPD.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 3.3: Pleural effusion	Hours: 1
Objectives:	Contents:
Define pleural effusion and tell the cardinal signs.	 Pleural effusion Definition of pleural effusion, aetiology (Cause), pathology (Definition), clinical features,
State the aetiology, pathology and clinical features of pleural effusion.	investigations, differential diagnosis, complications.
Identify complications of pleural effusion and the (complication) for these.	Demonstration of positive X-ray film of pleural effusion. (Explain)
Describe how to stabilize the patient and refer.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Sub-Unit 3.4: Respiratory disorders –	Hours: 2
Pneumonia	
Objectives:	Contents:
Define pneumonia and discuss the incidence.	Pneumonia
Explain why pneumonia is a serious problem, and identify the populations most at risk.	 Definition, etiology, sign and symptoms, investigation, complications, management and epidemiology of pneumonia. Types of pneumonia:
	Prevention of pneumonia:

Identify the etiologies, pathology, cardinal signs and clinical features of different types of pneumonia.	Demonstration of chest x-ray of pneumonia.
Identify complications of pneumonia.	
List the investigations necessary for differential diagnosis of pneumonia.	
Describe the management of pneumonia.	
Identify indications for referral.	
Prevention and control of pneumonia including vaccine.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction, supervised clinical practice
Sub-Unit 3.5: Asthma	Hours: 2
Objectives:	Contents:
Define bronchial asthma and tell the cardinal	Asthma
signs.	Definition, aetiology, pathology, clinical
Identify the etiology, pathology and clinical features of bronchial asthma.	features, differential diagnosis, diagnosis, complication, &management of bronchial asthma.
Discuss the relationship between extrinsic and intrinsic asthma.	Show the X-ray of chest of bronical asthama.
Identify the investigations necessary for differential diagnosis.	Prevention and control of asthama.
List complications of asthma.	
Manage bronchial asthma.	
Identify indications for referral.	
Identify methods of symptom control	
Role of vaccine to prevention of bronchial asthama.	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
Sub Huit 2 (a Dulmon area tub area lesi-	supervised clinical practice Hours: 3
Sub-Unit 3.6: Pulmonary tuberculosis Objectives:	Contents:
Define pulmonary tuberculosis (PTB).	Pulmonary tuberculosis
State the aetiology, pathology, cardinal signs	Definition, aetiology, pathology, clinical
and clinical features of PTB.	features, differential diagnosis, classification of Tuberculosis,
Identify the investigations necessary for	investigation, complications, management,
differential diagnosis of PTB.	and prevention and Control of PTB.
Describe complications of PTB.	• DOTS therapy in PTB according to National Guidelines with special reference
Describe the procedures for managing smear positive cases according the DOTS concept	to MDR and XDR. • Follow up care as per National Guidelines.

with special reference to Multi Drug	Definition of relatse, drug resistant and
Resistance (MDR) and XDR (SCC).	treatment failure case. • Show the sputum smear and X- ray chest of
Summarize the teaching points for	pulmonary tuberculosis.
pulmonary positive cases.	pullifolding theoretics is.
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice, field visit to
	DOTS clinic
Unit 4: Gastrointestinal Disorders	Hours: 4
Sub-Unit 4.1: Peptic Ulcer Diseases	Hours: 2
Objectives:	Contents:
Define peptic ulcer (PUD) diseases and	Peptic ulcer
discuss the incidence.	Revision of anatomy and physiology of
Distinguish between gastritis, gastric ulcer,	stomach and duodenum.
duodenal ulcer and esophageal ulcer.	Describe physical examination of the gastrointestinal system.
Identify the aetiologies, pathology, cardinal	 Definition, aetiology, pathology, clinical
signs and clinical features of PUD.	features, differential diagnosis,
	complication and management.
Explain the relationship of Helicobacter pylori to peptic ulcers.	• Investigations for differential diagnosis:
	> GI endoscopy,
Identify investigations necessary for	barium meal X-ray stomach,
differential diagnosis.	> gastric acid estimation,
Describe integrated comprehensive treatment	> stool for occult blood,
for PUD.	> USG abdomen.
Identify complications of untreated PUD.	• Integrated comprehensive treatment of PUD:
Identify indications for referral.	Antacids
	> gastric acid secretion inhibitors
	> antibiotic therapy
	> dietary modification
	alcohol/smoking cessationstress management
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
1	supervised clinical practice
Sub-Unit 4.2: Diarrhea, Constipation and	Hours: 2
Vomiting	
Objectives:	Contents:
Define Vomiting, Constipation and Diarrhea.	Diarrhea, Constipation and Vomiting
Explain the types of Diarrheas.	Anatomy and Physiology of oral cavity esophagus, stomach, duodenum, billary
Discuss the causes of Vomiting,	tract, small intestine.
Constipation and Diarrhea.	Definition of Vomiting, Constipation and
Explain the management of Vomiting,	Diarrhea.
Constipation and Diarrhea.	Types of Diarrheas.
-	Acute and chronic causes of Vomiting,
Discuss the importance of fiber diet in	Constipation and Diarrhea.
Constipation.	Management of Vomiting, Constipation and Diarrhea.
	• Importance of fiber diet in Constipation.

Explain the food habits to precipitate Constipation. Discuss complication of Vomiting, Constipation and Diarrhea.	 Food habits to precipitate Constipation. Complication of Vomiting, Constipation and Diarrhea.
Evaluation methods: written exam, viva, performance observation in clinical setting Unit 5: Endocrine System Disorders Sub-Unit 5.1: Type 1 & 2 Diabetes	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice Hours: 5 Hours: 3
Mellitus	
Objectives:	Contents:
Identify the cardinal signs for type 1 and type 2 diabetes mellitus.	Type 1 & 2 Diabetes Mellitus • Anatomy & physiology of the pancreas(review)
Describe the patho-physiology of diabetes mellitus.	• Patho physiology of the different types of diabetes
Differentiate between type 1 and type 2 diabetes.	Pharmacologic effects of oral/insulin hypoglycemic medicines
Explain the production and action of insulin.	Methods for assessing hyperglycemia
Identify the signs and symptoms of each type of diabetes mellitus.	 Treatment for ketoacidosis and hypoglycemia Preventive health care for diabetics
Discuss the incidence and contributing factors for type 1 & 2 diabetes mellitus in Nepal.	 Demonstrate the blood glucose level of diabetic subjects. Drugs used in diabetes, their
Give the rationale for administering insulin versus oral hypoglycemic medications.	contraindications and side effects.
Describe the health consequences of chronic hyperglycemia.	
Explain the health teaching points for a diabetic patient including the role of diet & exercises in preventing and controlling diabetes.	
Describe the signs and symptoms of ketoacidosis.	
Relate the chief treatments for stabilizing a patient with ketoacidosis.	
Explain complications of diabetes mellitus.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 5.2: Thyroid disorders	Hours: 2
Objectives:	Contents:
Discuss the causes of hypo- and hyper-thyroidism in Nepal.	Thyroid disordersEtiologies, diagnosis, management and prevention of hypo- and hyper-thyroidism.

Identify the cardinal signs and clinical features of each of these disorders	• Clinical features of thyroid cancers (Theory).
Describe the management and complications of hypo and hyper-thyroidism.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Unit 6: Hepatic Disorders	Hours: 5
Sub-Unit 6.1: Cirrhosis of the liver	Hours: 3
Objectives:	Contents:
Describe the anatomy and physiology of the liver.	Cirrhosis of the liver Anatomy and physiology of the liver Definition types estimles y methology.
Describe the different types of cirrhosis of liver.	• Definition, types, aetiology, pathology, clinical features, differential diagnosis, investigations, complications, management
Discuss the incidence and aetiology of cirrhosis of the liver.	and prevention.Correlate cirrhosis of liver with alcohol
Describe the pathology cardinal signs and clinical features of different types of cirrhosis of the liver.	and hepatotoxic drug.Discuss on ascites
Identify investigations necessary for differential diagnosis.	
Identify complications of cirrhosis of the liver.	
Describe how to manage diagnosed cases or stabilize and refer provisionally diagnosed cases of cirrhosis of the liver. Discuss methods of prevention of cirrhosis of the liver	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
performance coper various in emineur seeming	supervised clinical practice
Sub-Unit 6.2: Hepatitis	Hours: 2
Objectives:	Contents:
Define hepatitis and discuss the of hepatitis.	Hepatitis
Identify the aetiology, pathology, cardinal signs and clinical features of the different types of hepatitis.	 Definition, aetiology, pathology, clinical features, differential diagnosis, investigation, complication, management. Vaccinations for hepatitis.
Identify the investigations necessary for differential diagnosis.	1
Identify complications of hepatitis.	
Describe how to manage the diagnosed case using local resources.	
Identify indications for referral.	

Describe the modes of transmission of infectious hepatitis	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Unit 7: Central Nervous System Disorders Sub-Unit 7.1: Tetanus	Hours: 10 Hours: 2
Objectives:	Contents:
Discuss the of tetanus. Explain the cause, pathology, cardinal signs and clinical features of tetanus. Describe the investigations and differential diagnosis of tetanus. Describe the immediate management and referral procedure for cases of tetanus.	Tetanus • Tetanus, pathology and clinical features of tetanus. • Investigations, differential diagnosis, management and referral of tetanus.
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice

Sub-Unit 7.2: Poisoning	Hours: 2
Objectives:	Contents:
Identify commonly found poisons from chemical, plant, and snake sources. Identify the effect of selected poisons locally and systemically. Describe the appropriate treatments for	Poisoning • Accidental and intentional causes of poisoning • Common poison sources (Emphasis on Datura and Cannabis) • Detailed overview of OPC poisoning
commonly found poisons and snakebite. Describe how to remove poisons by emesis and gastric lavage; tell exceptions for removal by emesis.	 Symptoms and signs of poisoning Emergency management. Recognition of poisoning as medico legal case. (Discuss)
Describe symptomatic treatment of poisoning effects.	
Identify indications for immediate referral.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 7.3: Meningitis and encephalitis	Hours: 3
Objectives:	Contents:
Differentiate between the pathology, cardinal signs and clinical features of meningitis and encephalitis.	 Meningitis and encephalitis Etiology, diagnosis, treatment, complications, rehabilitation, and
Discuss the causes of meningitis and encephalitis.	 prevention of meningitis and encephalitis. Comparison of the cerebrospinal fluid findings of bacterial, tubercular and viral
Compare the cerebrospinal fluid findings of bacterial, tubercular and viral meningitis.	meningitis.

Explain the indications of Lumbar puncture and cerebrospinal fluid examination in diagnosing meningitis	Indications of Lumbar puncture and cerebrospinal fluid examination in diagnosing meningitis Common site Lumbar puncture
Explain common site lumbar puncture.	Common site Lumbar puncture.Complication & contraindication of
Describe complication & contraindication of lumbar puncture.	performing Lumbar Puncture. • Vaccination of meningitis and encephalitis.
Describe the complications, health post management, and indications for immediate referral of meningitis and encephalitis.	
Discuss the management and follow up care for meningitis and encephalitis.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 7.4: (Stroke)	Hours: 2
Objectives	Contents:
Identify the causes and incidence of cerebral vascular accidents.	Stroke • Definition of stroke (WHO), Etiology, classifications, diagnosis, treatment
Describe the classifications of CVA based on pathology.	classifications, diagnosis, treatment,prognosis.Rehabilitation, counseling and prevention
Describe the cardinal signs and clinical features of mild, moderate and severe CVA.	of cerebro-vascular accidents. • Classification of stroke (ischemic and
Discuss the differential diagnosis of CVA.	hemorrhagic stroke)
Describe the treatment and expected outcomes for each type of CVA.	Sign and symptom, treatment, completionsBells palsy (Explain)
Discuss advice and counseling for the family of this patient, to promote rehabilitation.	
State the risk behaviors for CVA which you would include in preventive education.	
Identify indications for referral of a CVA patient for higher level or specialty care.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice
Sub-Unit 7.5: Trigeminal neuralgia	Hours: 1
Objectives:	Contents:
Discuss the cardinal signs and clinical features of each.	• Etiology, classifications, diagnosis, treatment, prognosis, rehabilitation, counseling and prevention of central nervous system disorders:Multiple
Identify recommended treatment and prognosis for each.	sclerosis Cerebral palsy
Discuss family counseling for each diagnosis.	Muscular dystrophyTrigeminal neuralgia
Describe strategies to prevent or give early treatment for these disorders.	Bells palsyMental Retardation

Evaluation methods: written exam, viva,	Teaching / Learning Activities /
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Unit 8: Musculoskeletal Disorders	Hours: 3
Sub-Unit 8.1: Arthritis	Hours: 3
Objectives:	Contents:
Identify the of osteoarthritis and rheumatoid arthritis.	Pathology, diagnosis and management.Septic arthritis and gout.
Explain septic arthritis and gout.	Use of NSAID and its complicationDietary habits.
Describe the cardinal signs, clinical features and pathology of each.	Definition:Kyphosis
Explain the investigations for differential diagnosis.	ScoliosisAnkylosis spondylosis
Describe the advice and management for osteoarthritis and rheumatoid arthritis.	
Identify indications for referral to a higher-level facility.	
Discuss contributing factors in the development of these types of arthritis.	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice

Unit 9: Urinary System Disorders	Hours: 2	
Sub-Unit 9.1: Renal disease	Hours: 2	
Objectives:	Contents:	
Review the anatomy and physiology of the renal and urinary system in males and females. Discuss physical examination of the abdomen. Discuss the causes cardinal signs and clinical features of acute and chronic renal failure. Identify indications for referral. Describe the management of acute and chronic renal failure.	 Renal disease Incidence, pathology, diagnosis and management. Prevention of acute and chronic renal failure. Role of water and fluid intake. Diet factors and drug toxicity. Indication of dialysis UTI: Definition, Causes, Signs & Symptoms, Treatment, Complications, and Why It Is More Common in 	
Identify important components of counseling for the patient with renal failure.	 Females AKI: Definition, Causes, and Principles of Management. CKD: Definition, Causes, and Principles of Management. 	
Evaluation methods: written exam, viva, performance observation in clinical setting	Teaching / Learning Activities / Resources: classroom instruction, supervised clinical practice	
Unit 10: Other Disorders	Hours: 2	
Sub-Unit 10.1: Acute Rheumatic fever	Hours: 2	
Objectives:	Contents:	

Discuss the incidence of Rheumatic fever and explain the cardinal signs. Identify the aetiology, and pathology of Rheumatic fever. Identify the clinical features and investigations for making a differential diagnosis. Explain Jone's diagnostic criteria to diagnose Rheumatic fever. List the complications of Rheumatic fever if early diagnosis and treatment are not given. Describe how to manage the case after diagnosis. State the methods of prevention of Rheumatic fever. Identify aetiology, pathology, clinical features, investigation and management of infective endocarditis Identify indications that the patient should be referral. Evaluation methods: written exam, viva,	Other Disorders Definition, aetiology, pathology. Clinical features and differential diagnosis. Investigations, early diagnosis, management, complications and referral. Jone's diagnostic criteria to diagnose Rheumatic fever. Aetiology and pathology, clinical features, investigation and management of infective endocarditis.
performance observation in clinical setting	Resources: classroom instruction,
	supervised clinical practice
Unit 11: Infectious Disorders Sub-Unit 11.1: Common communicable	Hours: 6 Hours: 6
diseases	Hours: 0
Objectives:	Contents:
Discuss the morbidity and mortality rates of commonly prevalent communicable diseases in Nepal. State the general principles of communicable	 Definition, cause, clinical features and management regarding following disease Malaria Kala-azar Filariasis
disease control. Define selected terms relating to the study of communicable disease.	 Dengue fever Enteric fever Dysentery (Amoebic & Bacillary)
Identify the following for selected communicable diseases: 1. Modes of transmission 2. Incubation periods	 Cholera Giardiasis Brucellosis Rabies Food poisoning Influenza

Discuss how to diagnose, treat and prevent prevalence of communicable diseases.	 Trichuristrichiura Tape worm (Tenia solium, Tania, saginata, H. nana) 	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /	
performance observation in clinical setting	Resources: classroom instruction,	
	supervised clinical practice	
Unit 12 First Aid	Hours: 3	
Sub-Unit 12.1-First Aid Management	Hours: 3	
Objectives:	Contents:	
Describe first aid management of following	Introduction and management for the	
conditions:	following condition	
1. RTA (road traffic accident)	RTA (road traffic accident)	
2. Burn	> Burn	
3. Chocking	> Chocking	
4. Drowning	> Drowning	
5. Poisoning	> Poisoning	
6. Fall injury	> Fall injury	
7. Myocardial Infaction	Myocardial Infaction	
8. High altitude sickness	High altitude sickness	
9. Fainting	> Fainting	
10. Homeostasis	> Homeostasis	
Evaluation methods: written exam, viva,	Teaching / Learning Activities /	
performance observation in clinical setting	Resources: classroom instruction,	
	supervised clinical practice	

Recommended Texts:

- 1. Dhungel, S., & Pathak, U. (n.d.). Communicable disease. Educational Enterprises.
- 2. Dhungel, S., & Pathak, U. (n.d.). Textbook of medicine (Current ed.). Educational Enterprises.
- 3. Edwards, C. R. W., & Bouchier, I. A. D. (n.d.). *Davidson's principles and practice of medicine* (Current ed.). Churchill Livingstone.
- 4. Kafle, K. K., & Pinniger, R. G. (n.d.). *Diagnostic and treatment manual for primary health care in the district*. Health Learning Materials Center, Tribhuvan University.
- 5. Pathak, U. (n.d.). Differential diagnosis (Current ed.). Educational Enterprises.
- 6. Sayami, P. (n.d.). Medical problems for health post workers. Health Learning Materials Center.

References:

- 1. Swash, M. (n.d.). *Hutchison's clinical methods* (Recent ed.). W. B. Saunders.
- 2. Tierney, L. M., et al. (n.d.). *Current medical diagnosis and treatment* (Current ed.). Appleton & Lange.

Concept of General Medicine (Practical)

Pr	actical: 70 hrs. (2 hrs./week)
 Unit 1: History Taking and Physical Examination Take history of 10 patient with different disease 	2 hrs.
 Unit 2: Anemia Classify anemia Identify parts to be elicited in anemia Find out the Anemia 	3 hrs.
Unit 3: Hematological and Atherocleroclerotic Disorder	2 hrs.
 Unit 4: Cardiovascular System Diagnose angina, myocardial infarction Perform physical examination Brief ECG reading Perform X-Ray interpretation 	6 hrs.
 Unit 5: Respiratory System Demonstration of chest x-xay of pleural effusion Take history of pneumonia patient Perform systemic examination Perform investigation of pneumonia Perform examination of tuberculosis patient Conduct DOTS program Perform clinical examination of astha patient 	10 hrs.
 Unit 6: Gastrointestinal System Perform Gastrointestinal system examination Perform History taking and diagnosis of diarrohoe, AGE, Perform ORS Component Manage diarrhoea in house 	5 hrs. dysentry,
 Unit 7: Endocrine System Elicit diabetic patient Measures can be applied to diagnose diabetis Use glucometer 	5 hrs.
 Unit 8: Hepatic Disorder Perform evaluation of ascities Perform findings of hepatitis Perform vaccination 	5 hrs.
Unit 9: Central Nervous System Perform examination of: Tetanus, Bells palsy, Stroke, Paraplegia, Poisoning CVA Cerebral palsy, Mental retardation	9 hrs.

Muscular dystrophy

Unit 10: Musculoskeletal Disorder

5 hrs.

- Perform examination on:
 - o Kyphosis
 - Scoliosis
 - o Arthrities
 - o Gout
 - o Rheumatoid arthrities

Unit 11: Renal System and Other

3 hrs.

- Perform Examination on UTI, CKD,
- Perform Examination of communicable disease and laboratory findings

Unit 12: Acute Rheumatic fever

3 hrs.

• Identify the aetiology, and pathology of Rheumatic fever.

Unit 13: First Aid Management

12 hrs.

- Perform first aid management of:
 - o RTA, (Road Traffic Accident)
 - o Burn,
 - o Chocking,
 - o Drowning,
 - o Poisoning,
 - o Fall injury,
 - o Fainting,

Third Year

S. N	Subjects Offered
1	Clinical Methods of Acupuncture and Moxibustion
2	Acupuncture and Moxibustion Therapeutics II
3	Health Care Systems and Management
4	Community Medicine
5	Comprehensive Community Field Practice
6	Comprehensive Clinical Practice

Clinical Methods of Acupuncture and Moxibustion

Total: 88 hrs. (8 hrs./week) Theory: 44 hrs. (4 hrs./week) Practical: 44 hrs. (4 hrs./week)

Course Description:

This course is designed to provide students the skill and knowledge about clinical methods of acupuncture and moxibustion.

Course Objectives:

After completion of this course, students will be able to:

- 1. Sterilize the equipment and manage the accidents during acupuncture.
- 2. Identify different types of needles;
- 3. Apply needling method;
- 4. Perform different types of acupuncture methods;
- 5. Identify the function of moxibustion;
- 6. Classify moxibustion
- 7. Apply moxibustion; and
- 8. Perform cupping methods.

Course Contents:

	30111
Unit 1: Sterilize the equipment and manage the possible accidents of needle acupuncture.	
Sub-Unit 1.1: Sterilization and	Hours: 6
management of possible accidents	
Objectives:	Contents:
Perform sterilization methods	Sterilization and its methods
Manage the possible accidents of acupuncture	 Cause, manifestations & management of possible accidents of acupuncture. Fainting Stuck needle Bent needle Broken needle Hematoma After effects
Examination methods: Viva, performance,	Teaching / Learning Activities /
observation	Resources: class room instructions,
	demonstration, role play

Unit 2: Filiform Needle	Hours: 10
Sub-Unit 2.1: The structure and	Hours: 9
specification of Filiform Needle	
Objectives:	Contents:

Explain the structure of filiform needle.	Structure and specification of filiform needle
Explain the methods of needling practice	 Method and essential things for needling
Find the angle and depth of insertion	practice
Perform manipulating techniques	Angle and depth of insertion
Prepare the patient and equipment for acupuncture therapy Perform the reinforcing and reducing methods	 Perpendicular Oblique Horizontal Manipulating techniques and arrival of Qi and direction of needle Fundamental manipulating techniques Auxillary manipulating techniques Signs of arrival of Qi Factors influencing arrival of Qi Retaining and withdrawing the needle Preparation prior to treatment Inspection of the instrument Posture of the patient Sterilization of needle &disinfect the body part. Inspection of instrument and manage the posture of patient.
	Basic & comprehensive reinforcing & reducing Methods.
Examination methods : written exams, viva,	Teaching / Learning Activities /
performance observation	Resources: class room instructions,
	demonstration, role play
Sub-Unit 2.2: Precaution and	Hours: 1
contraindication	
Objectives:	Contents:
Explain about precautions and	• Precaution of acupuncture treatment.
contraindications of acupuncture treatment	Contraindication of acupuncture treatment.
Examination methods : written exams, viva,	Teaching / Learning Activities /
performance observation	Resources: class room instructions,
	demonstration, role play
Unit 3: Three-edged needle	Hours: 2
Sub-Unit 3.1: Introduction of three-edged	Hours: 2
needle	
Objectives:	Contents:
Explain the structure and manipulating	• Description of three-edged needle
techniques of three-edged needle	• Indications and manipulation of three
	edged needles.
	• Precautions during treatment with three-
	edged needle.
Examination methods : written exams, viva,	Teaching / Learning Activities /
performance observation	Resources: class room instructions,
	demonstration, role play

Unit 4: Cutaneous needle	Hours: 2
Sub-Unit 4.1: Introduction of	Hours: 2
cutaneous needle	
Objectives:	Contents:
Explain the structure and manipulating	Structure and specification of the cutaneous
techniques of cutaneous needle.	needle
1	• Indications and manipulation of cutaneous
	needle.
	• Precautions during treatment.
Examination methods: written exams,	Teaching / Learning Activities / Resources:
viva, performance observation	class room instructions, demonstration, role
71	play
Unit 5: Intradermal needle	Hours: 2
Sub-Unit 5.1: Introduction of	Hours: 2
intradermal needle	
Objectives:	Contents:
Explain the structure and manipulating	Structure & specification of intradermal
techniques of intradermal needle	needle
1	• Indication & manipulation of intradermal
	needle
	Precautions during treatment
Examination methods: written exams,	Teaching / Learning Activities / Resources:
viva, performance observation	class room instructions, demonstration, role
-	play
Unit 6: Apply needling methods	Hours: 2
Sub-Unit 6.1: Needling methods	Hours: 2
Objectives:	Contents:
Perform different needling techniques	Different needling methods based on:
	 Methods of insertion of needle
	Angle and depth of insertion
	Manipulation and arrival of Qi
Examination methods: written exams,	Teaching / Learning Activities / Resources:
viva, performance observation	class room instructions, demonstration, role
	play
Unit 7: Ear acupuncture	Hours: 4
Sub-Unit 7. 1: Basics of ear	Hours: 4
acupuncture	
Objectives:	Contents:
Explain the ear acupuncture and anatomy	Definition of ear acupuncture.
of auricle surface.	• Anatomy of the auricle surface.
	Distribution of auricular points.
	 Location and indication of commonly used
	auricular points.
Examination methods: written exams,	Teaching / Learning Activities / Resources:
Examination methods: written exams, viva, performance observation	Teaching / Learning Activities / Resources: class room instructions, demonstration, role
viva, performance observation	Teaching / Learning Activities / Resources: class room instructions, demonstration, role play
viva, performance observation Unit 8: Electro-acupuncture	Teaching / Learning Activities / Resources: class room instructions, demonstration, role play Hours: 2
viva, performance observation Unit 8: Electro-acupuncture Sub-Unit 8.1: General introduction	Teaching / Learning Activities / Resources: class room instructions, demonstration, role play Hours: 2 Hours: 2
viva, performance observation Unit 8: Electro-acupuncture Sub-Unit 8.1: General introduction Objectives:	Teaching / Learning Activities / Resources: class room instructions, demonstration, role play Hours: 2 Hours: 2 Contents:
viva, performance observation Unit 8: Electro-acupuncture Sub-Unit 8.1: General introduction	Teaching / Learning Activities / Resources: class room instructions, demonstration, role play Hours: 2 Hours: 2

	Structure of electro stimulator.
	 Structure of electro stimulator. Manipulation of electro-acupuncture
	Contraindications and precautions of electro
	acupuncture
Examination methods: written exams,	Teaching / Learning Activities / Resources:
viva, performance observation	class room instructions, demonstration, role
_	play
Unit 9: Scalp acupuncture	Hours: 5
Sub-Unit 9.1: Basics of scalp	Hours: 5
acupuncture	
Objectives:	Contents:
Find out the areas of scalp acupuncture	Definition and importance.
Explain Jiao's protocol and stimulation areas.	Standard areas of stimulation (Jiao's protocol)Manipulation, indications and precautions.
Explain manipulation, indications and precautions.	
Examination methods: written exams,	Teaching / Learning Activities / Resources:
viva, performance observation	class room instructions, demonstration, role
	play
Unit 10: Application of moxibustion	Hours: 3
Sub-Unit 10.1: Applications of	Hours: 3
different types of moxa	
Objectives:	Contents:
Identify and use different forms of moxa.	• Classification of different types of moxibustion in details.
	Functions, indications& contraindications of moxa stick.
Examination methods : written exams,	Teaching / Learning Activities / Resources:
viva, performance observation	class room instructions, demonstration, role play
Unit 11: Apply moxibustion	Hours: 3
Sub-Unit 11.1: Moxibustion methods	Hours: 3
Objectives:	Contents:
Explain about different application	Process & volume for moxibustion. Process & volume for moxibustion.
methods of moxibustion.	• Different application methods of moxibustion.
Explain about the management of	Management after moxibustion.
accidents caused by moxibustion	
Examination methods: written exams,	Teaching / Learning Activities / Resources:
viva, performance observation	class room instructions, demonstration, role
, , , , , , , , , , , , , , , , , , ,	play
Unit 12: Cupping	Hours: 3
Sub-Unit 12.1: Introduction & cupping	Hours: 3
Objectives:	Contents:
Define cupping.	Definition of cupping
	• Types of cupping.
Identify different cups and perform	> Dry cupping
cupping.	> Wet cupping
	> Moving cupping
I	• Types of cupping jars (Explain).

	 Bamboo jars Glass cups Plastic jars Rubber cups Functions of cupping Manipulation techniques Precautions
Examination methods : written exams, viva, performance observation	Teaching / Learning Activities / Resources: class room instructions, demonstration, role play

References:

- 1. Cheng, X. (Ed.). (n.d.). Chinese acupuncture and moxibustion. Foreign Language Press.
- 2. Long, Z. (n.d.). Acupuncture and moxibustion. In Beijing University of Traditional Chinese Medicine (Ed.), English-Chinese collegiate textbooks in Traditional Chinese Medicine of higher learning. Academic Press (Xue Yuan).
- 3. Shen, X. Y., & Wang, H. (n.d.). Acupuncture and moxibustion (Z. Baixiao, Trans.).
- 4. Zhong, R. (n.d.). *Introduction to acupuncture and moxibustion* (X. Wang, Trans.). Shanghai Literature Institute of Traditional Chinese Medicine. World Century Publishing Corporation.

Clinical Methods of Acupuncture and Moxibustion (Practical)

Practical: 44 hrs. (4 hrs./week)

Perform the followings:

Unit 1: Sterilize the equipment and manage the possible accidents of needle 5 hrs. Sub Unit 1: Sterilization and management of possible accidents

- Sterilize the instruments
- Demonstrate and simulate the management of possible accidents during acupuncture treatment
 - o Fainting
 - o Bent needle
 - o Stuck needle
 - o Hematoma
 - o After effects

Unit 2: Filiform needle

13 hrs.

Sub Unit 1: The structure and specification of filiform needle

- Demonstrate the structure and specification of filiform needle
- Perform needling practice with sheet of paper, cotton cushion and on your own body
- Perform different angles and depth of insertion with filiform needle
- Perform different needle directions applying some commonly used acu-points
- Perform the manipulating techniques and feel Qi sensation
- Perform reinforcing and reducing methods

Unit 3: Three-edged needle

2 hrs.

Sub-Unit 1: Introduction of three-edged needle

- Demonstrate the structure and specification of three-edged needle
- Perform needling practice with three-edged needle

Unit 4: Cutaneous needle

3 hrs.

Sub-Unit 1: Introduction of cutaneous needle

- Demonstrate the structure and specification of cutaneous needle
- Perform needling practice with cutaneous needle
- Manipulate the cutaneous needle

Unit 5: Intradermal needle

1 hrs.

Sub Unit 1: Introduction of intradermal needle

- Demonstrate the structure and specification of intradermal needle
- Perform needling practice with intradermal needle
- Manipulate intradermal needle

Unit 6: Apply needling methods

3 hrs.

Sub Unit 1: Needling methods

Perform different needling techniques

Unit 7: Ear acupuncture

3 hrs.

Sub Unit 1: Basics of ear acupuncture

- Draw anatomy of auricle with distribution of auricular surface
- Locate the common auricular points

Perform ear acupuncture.	
Unit 8: Electro-acupuncture Sub Unit 1: General introduction	4 hrs.
 Demonstrate electro-stimulator Perform electro acupuncture 	
Unit 9: Scalp acupuncture Sub Unit 1: Basics of scalp acupuncture	5 hrs.
 Locate the standard lines of scalp acupuncture Locate the major areas of scalp acupuncture Perform scalp acupuncture Manipulation of scalp acupuncture 	
 Unit 10: Application of moxibustion Sub Unit 1: Applications of different types of moxa Prepare moxa cones Demonstrate the moxibustion therapy according to its classification 	2 hrs.
Unit 11: Apply moxibustion Sub Unit 1: Moxibustion methods	2 hrs.
 Perform direct moxibustion with Moxa cones Perform indirect moxibustion with moxa cones Perform moxibustion with moxa stick Perform moxibustion with applying warming needle Simulate the possible accidents of moxibustion 	
Unit 12: Cupping Sub Unit 1: Introduction &cupping	1 hrs.
Perform dry cuppingPerform wet cupping	

• Perform moving cupping

Acupuncture and Moxibustion Therapeutics II

Total: 176 hrs. (16 hrs./week) Theory: 88 hrs. (8 hrs./week) Practical: 88 hrs. (8 hrs./week)

Course Description:

This course is designed to provide students the skill and knowledge about therapeutics of acupuncture and moxibustion.

Course Objectives:

After completion of this course, students will be able to:

- 1. Diagnose and manage cardiovascular disorder;
- 2. Explain in detail about common musculoskeletal disorders, their diagnosis and management;
- 3. Explain in detail about common pediatric diseases, their diagnosis and management;
- 4. Explain in detail about common endocrine disorders, their diagnosis and management;
- 5. Explain in detail about common urogenital disorders, their diagnosis and management;
- 6. Explain in detail about common ENT disorders and their diagnosis and management;
- 7. Explain in detail about common eye diseases, their diagnosis and management; and
- 8. Describe in detail about the common addictions, diagnosis and management.

Course Contents:

Course: Acupuncture and Moxibustion Therapeutics II		
Unit 1: Diseases of Cardiovascular System	Hours: 8	
Objectives:	Contents:	
Explain cardiovascular system Describe cardiovascular disorders Diagnose and manage cardiovascular disorder	Diseases of Cardiovascular System • Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: > Palpitation > High Blood Pressure > Low Blood Pressure	
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.	
Unit 2: Diseases of Musculoskeletal System	Hours: 12	
Objectives:	Contents:	
Give a brief description of musculoskeletal system	 Diseases of Musculoskeletal System Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: Bi Syndrome/Arthritis related diseases 	

Explain in detail about common musculoskeletal disorders, their diagnosis and management Evaluation methods: written and viva exams, performance observation in real or simulated settings.	> Torticollis > Periarthritis shoulder > Back and Neck Pain Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role
	play
Unit 3: Gynecological disorders	Hours: 10
Objectives:	Contents:
Give a brief description of female reproductive system Explain in detail about common gynecological disorders, their diagnosis and management	 Gynecological disorders Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: Dysmenorrhoea Irregular Menstruation (Introduction Only) Amenorrhoea Leucorrhoea Morning sickness (Introduction Only – Not Required at This Level)
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play
Unit 4: Pediatric Diseases	Hours: 11
Objectives:	Contents:
Give a brief description of common pediatric diseases Explain in detail about common pediatric diseases, their diagnosis and management	Pediatric Diseases • Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: > Infantile Paralysis > Nocturnal Enuresis > Mumps > Attentional Hyperactive Defecit Disorder
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, supervised, observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play
Unit 5: Endocrine Disorders	Hours: 15

Objectives:	Contents:
Give a brief description of endocrine system Explain in detail about common endocrine disorders, their diagnosis and management	 Endocrine Disorders Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: Diabetes Mellitus Thyroid Disorders Obesity PCOS (polycystic ovarian syndrome)
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Unit 6: Urinogenital System	Hours: 8
Objectives:	Contents:
Give a brief description of urogenital system Explain in detail about common urogenital disorders, their diagnosis and management	Urinogenital System • Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: > Edema > Impotence > Urinary Incontinence > Neurogenic Bladder
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Unit 7: ENT Diseases	Hours: 10
Objectives:	Contents:
Give a general introduction of common ENT diseases Explain in detail about common ENT disorders and their diagnosis and management	 ENT Diseases Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: Tinnitus Rhinitis Otalgia Sinusitis
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.

Unit 8: Eye Diseases	Hours: 6
Objectives:	Contents:
Give a general introduction of common eye diseases Explain in detail about common eye diseases, their diagnosis and management	Eye Diseases • Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: > Optic Atrophy > Dropping of Eyelids
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, supervised, observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.
Unit 9: Addictions	Hours: 8
Objectives:	Contents:
General introduction of several addictions Describe in detail about the common addictions, diagnosis and management.	Addiction • Definition, Etiopathology, Clinical Manifestations, Syndrome Differentiation and Management of following diseases: > Drug Addiction > Alcohol Addiction > Smoking Addiction
Evaluation methods: written and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction, textbooks, self-study, and supervised observation in clinical settings, case discussion and demonstration, return demonstration, models, videos, role play.

References:

- 1. Althea Press. (2019, August). A patient's guide to acupuncture. Althea Press.
- 2. Darycott LLC. (2017, March). Acupuncture points handbooks. Darycott LLC.
- 3. Blue River Press. (2014, January). The concise book of acupoints. Blue River Press.
- 4. Journal of Chinese Medicine. (2007, June). *A manual of acupuncture* (2nd ed.). Journal of Chinese Medicine.

Acupuncture and Moxibustion Therapeutics II (Practical)

Practical: 88 hrs. (8 hrs./week)

Treatment of Common Diseases with Acupuncture and Moxibustion

Use TCM methods of diagnosis to differentiate the syndrome and treatment of following diseases:

Unit 1: Cardiovascular Diseases:	7 hrs.
 Palpitation 	
High Blood Pressure	
Low Blood Pressure	

Unit 2: Musculoskeletal System Diseases:

15 hrs.

- Bi Syndrome
- Torticollis
- Periarthritis of shoulder
- Lumbar Pain

Unit 3: Gynecological Diseases:

10 hrs.

- Dysmenorrhoea
- Amenorrhoea
- Leucorrhoea
- Prolonged Labour
- Malposition of fetus

Unit 4: Pediatric Diseases

12 hrs.

- Infantile Paralysis
- Nocturnal Enuresis
- Mumps

Unit 5: Endocrine Disease

12 hrs.

- Diabetes Mellitus
- Thyroid Disorders
- Obesity
- PCOS

Unit 6: Urinogenital System

9 hrs.

- Edema
- Impotence
- Nocturnal Enuresis

Unit 7: ENT Diseases

12 hrs.

- Tinnitus
- Rhinitis
- Sinusitis
- Otalgia

Unit 8: Optic Atrophy

6 hrs.

Dropping of eyelids

Unit 9: Addictions

5 hrs.

- Drug addiction
- Alcohol addiction
- Smoking addiction

Health Care Systems and Health Management

Total: 88 hrs. (8 hrs./week) Theory: 66 hrs. (6 hrs./week) Practical: 22 hrs. (2 hrs./week)

Course Description:

This course is designed to provide the knowledge and skill about the health care systems and health management in Nepal. It deals about the prevalent health care systems, health policies and programs in Nepal, fundamental principles of management, management of health-related organizations, logistic management, personnel management, health issues and professional practice.

Course Objectives:

After completion of this course, students will be able to:

- 1. Define health care system, identify prevalent health care systems in Nepal, explain the theories, principles & components of health care systems and develop managerial skill in health care;
- 2. Identify current national and international health issues; describe the national health policy, its philosophy, strengths and weaknesses;
- 3. Explain various health programs of the Departments of AAM and Health Services;
- 4. Apply the principles of logistics management, human resource management and supervision, provide quality health service at AAM dispensaries and manage AAM dispensaries/health center in the real setting;
- 5. Identify, generate and use information (service information, logistic information, human resource information and financial information) in health management, planning and decision-making process;
- 6. Identify different levels of health manpower and describe the functions of prevalent teaching/learning institutions in Nepal;
- 7. Describe goals and functions of the health-related governmental organizations, non-governmental organizations (NGO's), international non-governmental organizations (INGO's) and international agencies in Nepal; and
- 8. Define decentralization and local governance; explain the code of ethics of the certificate level manpower of Ayurveda, Naturopathy & Yogic Science and Health Assistant of AAM.

Course Contents:

IIILONI		
Unit 1: Health Care System in Nepal	Hours: 2	
Objectives:	Contents:	
Define health care system.	Definition, characteristics, and purpose	
Describe the history of the development of health services in Nepal.	of a health care system.History of health system in Nepal.Health care approaches:	
Describe naturopathic, yogic, acupuncture, Aayurvedic, homeopathic and allopathic approaches to health care.	AyurvedaHomeopathyAllopathy	
Identify situations when the most appropriate type of treatment might be any one or the combination of two or more of the above systems.	 Naturopathy Acupuncture Sowarigpa Unani Philosophy, origin, strengths and weaknesses of these health care 	
	approaches.	

	I
Examination methods : Written exams (short	Teaching / Learning Activities /
answer questions)	Resources : Textbook self-study, classroom
Hait 2. Familian and de of Hailth Com-	instruction.
Unit 2: Fundamentals of Health Care	Hours: 22
Management	Harris 2
Sub-Unit 2.1: Introduction to Health Care	Hours: 2
Management	Comtonto
Objectives:	Contents:
Explain the concept of Management and the principles of Management	 Concept and Principles of Management, Differentiation between management &
Differentiate between management & administration.	administration.Definition and principles of health care
Define health care management	management • The POSDCORB function of
Explain the POSDCORB function of management in AAM.	management in AAM.
Examination methods: Written exams (short	Teaching / Learning Activities /
answer questions)	Resources : textbook self-study - Instructor led discussion, reference study assignment
Sub-Unit 2.2: Planning of Health service	Hours: 2
Objectives:	Contents:
Define planning and purpose of planning.	Definition and purpose of planning.
	• Planning cycle (PIE cycle)
Explain the planning cycle.	• Types & steps of planning.
Describe different types and steps of planning.	• Current health planning system of Nepal.
Explain the current health planning system in Nepal.	
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: textbook self-study - classroom instruction
Sub-Unit 2.3: Organizing of Health Service	Hours: 2
Objectives:	Contents:
Define organization.	Definition of organization.
	• The process and purpose of organization
Describe the process and purpose of organization.	Types of organizations and their organograms.
Describe different types of organization and	• Organograms of MoH, DoAA, DAHC,
organograms of Ministry of Health,	PHCC, Ayurveda dispensary and HP.
Department of Ayurveda and Alternative	, , ,
Medicine, Primary Health care centre and	
Health Post.	
Examination methods:	Teaching / Learning Activities /
Written exams (short answer questions)	Resources: textbook self-study, Classroom instruction, field visit
Sub-Unit 2.4: Leadership in an	Hours: 2
Organization	
Objectives:	Contents:
Define leadership.	Definition of Leadership.
p	

Describe the types of leadership.	• Types of leadership.
Discuss the characteristics, advantages and	Characteristics, benefits, advantage and
disadvantages of autocratic, democratic and	disadvantages of styles of leadership.
laissez faire leadership.	• Responsibility of the leader as role model;
-	ways to demonstrate consistency,
Describe the responsibility of leadership as	transparency, integrity and fairness.
role model.	An autocratic leadership style has
Explain why an autocratic leadership style has	historically been most commonly used in
historically been most commonly used in	Nepal
Nepal.	_
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: textbook self-study, Classroom
written exams (short answer questions)	instruction, discussion, field visit
Sub-Unit 2.5: Staffing in an Organization	Hours: 2
Objectives:	Contents:
Explain staffing and process of staffing.	• Staffing
	> Definition
Identify the staffing patterns of different	> Purpose
health institutions Nepal	> Process
Identify the elements of an effective job	Staffing patterns of a Primary Health Care
description.	Center and Health Post.
description.	
F	• Essential elements of a job description.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources : textbook self-study, Classroom instruction, field visit
	I instruction field visit
C 1 II '42 (D' 4'	
Sub-Unit 2.6: Directing	Hours: 2
Objectives:	Hours: 2 Contents:
Objectives: Explain the meaning and purpose of directing.	Hours: 2 Contents: • Definition of directing.
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in	Hours: 2 Contents: • Definition of directing. • Purpose of directing.
Objectives: Explain the meaning and purpose of directing.	Hours: 2 Contents: • Definition of directing.
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization.	Hours: 2 Contents: • Definition of directing. • Purpose of directing. • Ways of directing.
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods:	Hours: 2 Contents: • Definition of directing. • Purpose of directing. • Ways of directing. Teaching / Learning Activities /
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization.	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions)	Hours: 2 Contents: • Definition of directing. • Purpose of directing. • Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation	Hours: 2 Contents: • Definition of directing. • Purpose of directing. • Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents:
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives:	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision.	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring.	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition Purpose
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition Purpose Importance
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of evaluation.	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition Purpose Importance Techniques, Tools Principles. Monitoring
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of evaluation. Describe the differences among supervision,	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition Purpose Importance Techniques, Tools Principles.
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of evaluation.	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition Purpose Importance Techniques, Tools Principles. Monitoring
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of evaluation. Describe the differences among supervision,	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition Purpose Importance Techniques, Tools Principles. Monitoring Definition
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of evaluation. Describe the differences among supervision,	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Purpose Importance Techniques, Tools Principles. Monitoring Definition Purpose
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of evaluation. Describe the differences among supervision,	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Purpose Importance Techniques, Tools Principles. Monitoring Definition Purpose Importance Importance Importance Importance Importance Importance
Objectives: Explain the meaning and purpose of directing. Describe the ways of directing in organization. Examination methods: written exams (short answer questions) Sub-Unit 2.7: Supervision, monitoring and Evaluation Objectives: Explain the principles of supervision. Describe the techniques of supervision. Describe the steps of monitoring. Describe the meaning and purpose of evaluation. Describe the differences among supervision,	Hours: 2 Contents: Definition of directing. Purpose of directing. Ways of directing. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit Hours: 2 Contents: Supervision Definition Purpose Importance Techniques, Tools Principles. Monitoring Definition Purpose Importance

	 Meaning Purpose Types Differences among supervision, monitoring and evaluation.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: textbook self-study, Classroom
	instruction, field visit

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Sub-Unit 2.8: Coordination of Health Management	Hours: 2
Objectives:	Contents:
Describe coordination in terms of health care management. Identify the techniques of coordination. Explain the different types of coordination.	 Definition of coordination. Types of coordination External and internal Horizontal and vertical Techniques of coordination.
Examination methods: written exams (short answer questions)	Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, field visit
Sub-Unit 2.9: Disaster	Hours: 2
Objectives:	Contents:
Define disaster. Describe the types of disaster. Describe the effects of man-made and natural disaster.	 Definition of disaster. Types of disaster. Effects of man-made and natural disaster. Basic elements of disaster planning. Health risks created by earthquake,
Identity the basic elements of disaster planning. Identify the health risks created by earthquake, flooding, landslide	flooding, landslide etc. The role of governmental, non-government, regional, local and civil society in disaster management and post disaster issues.
Describe the role of governmental, non- government, regional, local and civil society in disaster management and post disaster issues.	
Examination methods: written exams	Teaching / Learning Activities /
(short answer questions)	Resources: textbook self-study - Classroom instruction, field visit
Sub-Unit 2.10: Budgeting	Hours: 2
Objectives:	Contents:
Define budgeting and identify different types	Definition of budgeting.
of budgets.	Types of budgets (capital and recurrent)
Discuss the components of budget sheet.	and characteristics of various budgets.Components of budget sheetTools (voucher, ledger, daybook, audit)
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources : Classroom instruction, textbook self-study.

Sub-Unit 2.11: Reporting and recording	Hours: 2
Objectives:	Contents:
Define reporting and recording.	• Definition of reporting and recording.
Describe the techniques of report writing.	• Techniques of report writing.
	• Reporting process of Nepal's Health Care
Explain the reporting process of Nepal's	Delivery System.
Health Care Delivery System.	
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: textbook self-study, Classroom
	instruction, field visit
Unit 3: AAM Centre Management/ Health	Hours: 18
Post Management	
Sub-Unit 3.1: Staff meeting	Hours: 2
Objectives:	Contents:
Define staff meeting and its importance.	• Definition of staff meeting.
Describe planning and organizing for an	 Planning and organizing a meeting.
effective meeting.	
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: textbook self-study, Samples of
	meeting minutes/invitation letters, practice
	writing minutes from a simulated meeting
	Classroom instruction, Demonstration /
C. I. II. V. A. A. T	Practicum
Sub-Unit 3.2: Training	Hours: 2
Objectives:	Contents:
Define training and purpose of training.	• Definition of training.
Describe the types of training with its	• Different types of training.
advantages and disadvantages.	• Training Need Assessment (TNA).
Describe the process for assessing the need	• Training plan, training conduction & training evaluation.
for training (TNA)	training evaluation.
- '	
Describe planning, conduction & evaluation	
of training program.	
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: textbook self-study, Classroom
	instruction, field visit
Sub-Unit 3.3: Financial Management	Hours: 2
Objectives:	Contents:
Describe the purpose and procedures for	• Purpose procedures of financial
financial management.	management
Explain the records of income and	 Records of income and expenditure
expenditure annual budget bank accounts.	annual budget bank accounts.
-	• Preparation of Monthly/ quarterly and
Prepare the monthly/ quarterly and annual	annual financial statements.
financial statements.	
Examination methods: written exams	Teaching / Learning Activities /
(short answer questions)	Resources: Classroom instruction, group

	of filling logistics related forms, actual
	logistic forms.
Sub-Unit 3.4: Logistic Management	Hours: 2
Objectives:	Contents:
Define logistic management	Definition of logistic management. I a gisting availa (Saming avaitament available)
Explain logistic cycle.	• Logistic cycle (Serving customer, product selection forecasting and procurement and
Explain the six rights of logistic management.	inventory management).
Explain the purpose and functions of logistics management.	 Six rights of logistic management. Purpose and functions of logistics management.
Explain the Components and procedures of Nepal's LMIS.	Components and procedures of Nepal's LMIS.
Describe the logistic management information system (LMIS) of Nepal.	• Logistic management information system (LMIS) of Nepal.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources : Classroom instruction, group discussion, Resources: booklets for process of filling logistics related forms, actual logistic forms.
Sub-Unit 3.5: Time Management	Hours: 2
Objectives:	Contents:
Define time management.	• Definition of time management.
Describe the concept and meaning of time	Concept and meaning of time
management.	management.Program chart with weekly, monthly
Prepare the program chart with weekly, monthly quarterly and yearly time table for various activities.	quarterly and yearly time table for various activities.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: Text book self-study,
	Classroom instruction, Practicum, visit
	institution, Classroom practice.
Sub-Unit 3.6: Quality assurance	Hours: 2
Objectives: Define quality assurance in Health Care.	Contents:Definition of quality assurance in Health
	Care.
Explain the concepts and components of quality health assurance.	Components and concepts of quality health assurance.
Define standards and give some examples of health care standards.	Definition standards and some examples of health care standards.
Explain the importance of quality assurance.	Importance of quality assurance. Main characteristics of a quality.
Explain the main characteristics of a quality	Main characteristics of a quality assurance programs
assurance program.	Ways to improve patient satisfaction with
Explain the ways to improve patient satisfaction with services.	services. • The focus of quality assurance principles:
List the 4 focus areas of quality assurance principles.	> Focus on patient/staff needs

Examination methods: written exams (short answer questions)	 Focus on how things are done (process/systems) – do not blame the individual. Focus on facts (don't make assumptions or guesses). Focus on team approach to problem solving. Teaching / Learning Activities / Resources: textbook self-study, Classroom instruction, group discussion, practice
	exercises.
Sub-Unit 3.7: Problem Solving	Hours: 2
Objectives:	Contents:
Define problem and problem solving.	• Definition of problem solving.
Describe the steps of problem solving.	Steps of problem solving.
Examination methods: written exams (short answer questions)	Teaching / Learning Activities / Resources: Text book self-study, Classroom instruction, classroom practice, field visit to relevant health institutions
Sub-Unit 3.8: Health Management Information System (HMIS)	Hours: 2
Objectives:	Contents:
Define Health Management Information System (HMIS). Explain the purpose & process of HMIS. Demonstrate how to prepare monthly, quarterly, and annual HMIS reports. Explain the important benefits of HMIS. Explain the use of the different types of HMIS forms.	 Definition of Health Management Information System (HMIS) Purpose & process of HMIS. Preparation of monthly, quarterly, and annual HMIS reports. Important benefits of HMIS. Use of the different types of HMIS forms.
Examination methods: Written exams (short answer questions)	Teaching / Learning Activities / Resources: Text book self-study, Classroom instruction, classroom practice, field visit to relevant health institutions.
Sub-Unit 3.9: Letter Writing	Hours: 2
Objectives:	Contents:
Identify the different types of letters. Describe the characteristics of correct and	Types of letters.Characteristics of letters.
effective letters.	• Characteristics of fetters.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: Text book self-study,
(State Ship of questions)	Classroom instruction, classroom practice.
Unit 4: Health related organization	Hours: 3
Sub-Unit 4.1: International Non- Governmental Organizations (INGO's)	Hours: 1
Objectives:	Contents:
o Njeou i osi	Contents.

Describe & Identify International Non-Governmental Organizations (INGO's) like SCF (U.S.) CARE Nepal, PLAN Nepal Describe the role and activities of INGO's for promoting health care in Nepal. Identify WHO, UNDP, World Bank, DFID and UNFPA.	 Concept of INGO's: SCF (U.S.) CARE Nepal, PLAN Nepal etc. Role and activities of INGO's for promoting health care in Nepal. Identification WHO, UNDP, World Bank, DFID, UNFPA. Role and activities of different bilateral and multilateral agencies in health sectors
Describe role and activities of different bilateral and multilateral agencies in health sectors of Nepal.	of Nepal.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: Classroom instruction, filed
written exams (short answer questions)	visit to concerned organization
Sub-Unit 4.2: National Non-Governmental	Hours: 2
Organizations (NGO's)	Hours: 2
Objectives:	Contents:
Describe & identify national NGO's like FPAN, Nepal Netrajyoti Sangh, Leprosy Relief Association and others describe roles and activities of national non-governmental organization for promoting health care.	Description & Identification of national NGO's like FPAN, Nepal Netrsajyoti Sangh, Leprosy Relief Association and others describe roles and activities of national non-governmental organization
Describe the role and activities of NGO's for promoting health care in Nepal.	for promoting health care.Role and activities of NGO's for promoting health care in Nepal.
Describe role and activities of different bilateral and multilateral agencies in health sectors of Nepal.	Role and activities of different bilateral and multilateral agencies in health sectors of Nepal.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: Classroom instruction, filed visit to concerned organization
Unit 5: National Health Policy	Hours: 12
Sub-Unit 5.1: National Health Policy (NHP)	Hours: 2
Objectives:	Contents:
Describe the aims and components of	National Health Policy
National Health Policy.	National Health FolicyObjective
I National Health Folicy.	· ·
Describe aim of National Ayurveda Health	> Targets
Policy 2052.	> Components.
	• Aim of National Ayurveda Health Policy
Describe the aim of current 5 years plan and	2052.
long-term health plan.	• Description of aim of current 5 years plan
	and long-term health plan.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources : Classroom instruction, field visit, annual report of DOHS
Sub-Unit 5.2: National Health Programs	Hours: 10
Objectives:	Contents:
Explain the activities of the following	• Activities of the national health programs:
national health programs: Malaria control,	Programs.

Tuberculosis Control, Leprosy control, Kala- azar, STD/HIV/AIDS, Community Drug (CDP), PHC Outreach Clinic, Nutrition, Training and others. Explain the activities of National Health Program Describe the role of the Health Post Manager in National Health Programs.	 Malaria control, Tuberculosis Control, Leprosy control, Kala-azar, STD/HIV/AIDS, Community Drug (CDP), PHC Outreach Clinic, Nutrition, Training and others. National health programs including: Child health Program Immunization CB-IMNCI Nutrition Program Family Health Program Safe Motherhood Family Planning Adolescent Sexual and Reproductive Health (ASRH) Disease Control Malaria Kalaazar Dengue Tuberculosis HIV/AIDS Supportive Programs National Health Education, Information and communication (NHEICC) Role of the Health Post Manager in National Health Programs.
Examination methods:	Teaching / Learning Activities /
written exams (short answer questions)	Resources: Text book self-study,
	classroom instruction, field visit to selected divisions of D.H.S., DOHS annual report,
	National Planning System in Health
	Section.
Unit 6: Health Manpower in Nepal	Hours: 3
Sub-Unit 6.1 Health Manpower in Nepal	Hours: 3
Objectives:	Contents:
Describe the brief introduction of the various	Various institution involved in HRH
institutions involved in human resources development in health sector.	development like, > Tribhuvan University: Institute of
I development in nealth sector	
development in neutri sector.	<u> </u>
Describe the formation and responsibilities of	Medicine
1	Medicine > Council for Technical Education and
Describe the formation and responsibilities of	Medicine > Council for Technical Education and Vocational Training (CTEVT)
Describe the formation and responsibilities of	Medicine > Council for Technical Education and
Describe the formation and responsibilities of	 Medicine Council for Technical Education and Vocational Training (CTEVT) Kathmandu University
Describe the formation and responsibilities of	 Medicine Council for Technical Education and Vocational Training (CTEVT) Kathmandu University B.P. Koirala Institute for Health Sciences National Health Training Center
Describe the formation and responsibilities of	 Medicine Council for Technical Education and Vocational Training (CTEVT) Kathmandu University B.P. Koirala Institute for Health Sciences National Health Training Center (NHTC)
Describe the formation and responsibilities of	 Medicine Council for Technical Education and Vocational Training (CTEVT) Kathmandu University B.P. Koirala Institute for Health Sciences National Health Training Center (NHTC) Pokhara University
Describe the formation and responsibilities of	 Medicine Council for Technical Education and Vocational Training (CTEVT) Kathmandu University B.P. Koirala Institute for Health Sciences National Health Training Center (NHTC) Pokhara University Purbanchal University
Describe the formation and responsibilities of	 Medicine Council for Technical Education and Vocational Training (CTEVT) Kathmandu University B.P. Koirala Institute for Health Sciences National Health Training Center (NHTC) Pokhara University

Examination methods: written exams (short answer questions)	 Karnali Academy of Heath Sciences (KAHS) Nepal Sanskrit University Lumbini Boudha University Formation and responsibilities of Nepal Health Professional Council (NHPC) Teaching / Learning Activities / Resources: Classroom instruction, relevant literature and brochures of concerned institutions, field visit to selected divisions
Haria 7. Haralda Januara and Dan Gandanal	of D.H.S.
Unit 7: Health Issues and Professional Practice	Hours: 4
Sub-Unit 7.1: Global Health Issues	Hours: 4
Objectives:	Contents:
Identify current global health issues. Explain mortality from infectious disease and nutritional problems in developing nations. Describe the barriers to the development of global health throughout the world. Explain the global efforts to improve the health nutrition of developing nations. Identify the most important health issues of Nepal.	 Current Global health issues. Infectious disease and nutritional problems in developing nations. Barriers to development of global health throughout the world. Global efforts to improve the health nutrition of developing nations. Important health issues of Nepal.
Examination methods: written exams (short answer questions)	Teaching / Learning Activities / Resources: Classroom instruction, relevant literature and brochures of concerned institutions, field visit to selected divisions of D.H.S.

Unit 8: Health Professional Councils	Hours: 2
Objectives:	Contents:
Students will be able to: List the different professional council in health sector Explain the role, objective and function of NHPC	 Listing different professional councils in health sector Role, objective and function of NHPC Professional ethics and code of conduct of a AAM Health Assistant
Describe professional ethics and code of conduct of a AAM Health Assistant	
Examination methods: written exams (short answer questions)	Teaching / Learning Activities / Resources: Classroom instruction, relevant literature and brochures of concerned institutions, field visit to selected divisions of D.H.S.

Recommended Texts:

- 1. Macmohan, R., et al. (n.d.). On being in charge: A guide to management in primary health care (Current ed.). World Health Organization.
- 2. Dixit, H. (1999). The quest for health. Educational Enterprise (P) Ltd.
- 3. Pradhananga, Y. (1998). *Health management*. Council for Technical Education and Vocational Training. (*Note: 2055 B.S. = 1998 A.D.*)
- 4. Kamala, T., & Bishnu, R. (1990). *Leadership and management for nurses*. Health Learning Materials Centre, Tribhuvan University.
- 5. Sapkota, S. P. (n.d.). Health management and community health. Vidhyarthee Pustak Prakashan.

References:

- 1. His Majesty's Government, & John Snow, Inc. (1997). *Inventory control and basic logistics procedure manual on store management for PHC/HP and SHP personnel*.
- 2. National Health Training Centre, Logistics Management Division, USAID, & JSI. (2000). *Health logistics procedure manual*.
- 3. National Health Training Centre, Logistics Management Division, USAID, & JSI. (n.d.). *Health statistics and EPI cold chain management procedure manual*.
- 4. Park, K. (2000). Textbook of preventive and social medicine. Bhanot Publishers.
- 5. Shrestha, B. M. (1982). Basic principles of management. Akshyulak Publication.
- 6. World Health Organization. (1974). *Modern management methods and the organization of health services* (Public Health Papers No. 55). WHO.

Health Care Systems and Health Management (Practical)

Practical: 22 hrs. (2 hrs./week)

Students will perform at least following performance in class room settings.

- 1. Conduct meeting and write a minute in simulative situation
- 2. Write an official letter (invitation, demand for commodity, leave and submission letter).
- 3. Prepare a duty roster
- 4. Prepare a weekly/monthly report of HP
- 5. Prepare the tools for supervision,
- 6. Demonstrate journal voucher
- 7. Prepare simple budget sheet
- 8. Prepare a sample job description
- 9. Make a goods register (JinsiKhata)
- 10. Formation of Health Facility Operation and Management Committee.
- 11. Process of approving leave at HP (Health Post) level

Community Medicine

Total: 88 hrs. (8 hrs./week) Theory: 66 hrs. (6 hrs./week) Practical: 22 hrs. (2 hrs./week)

Course Description:

This foundational course of community health practice is designed to develop the competencies and attitudes for application of epidemiological principles in community health diagnosis and health care practices.

Course Objectives:

After completion of this course, students will be able to:

- 1. Describe disease causation and modes of transmission, identifying the agent, host, and environmental factors, as the basis for environmental health of the community;
- 2. Use epidemiology to identify health problems of the community;
- 3. Investigate and manage an epidemic outbreak in the community;
- 4. Conduct a community diagnosis on geriatric disease and most prevalent disease of community; and
- 5. Describe the various health practices among the diverse ethnic groups of Nepal.

Course Contents:

THEORY

THEORY		
Unit 1: Basic Epidemiology	Hours: 22	
Sub-Unit 1.1: Concepts of Disease	Hours: 7	
Objectives:	Contents:	
Define disease.	Definition of disease, concept of disease.	
Explain the natural history of disease.	 Natural history of disease Spectrum of disease	
Describe the spectrum of disease.	Concept of "iceberg phenomenon" of	
Explain "iceberg phenomenon" of disease and its application of prevention and prognosis of disease	disease and its application of prevention and prognosis of disease. Concepts of disease epidemiology.	
Explain the concepts of disease epidemiology.	Brief concept of disease control, elimination, eradications & surveillance	
State in brief concept of disease control, elimination, eradications & surveillance on the community basis	on the community basis.Epidemiological triadAgent	
Describe epidemiological triad and its related factors.	 Host Environment Terminology with example: infection and 	
Describe the concept of disease causation.	infectious disease, epidemic, endemic,	
Describe risk factor and risk group.	sporadic, pandemic, exotic, opportunistic infection, source of infection, reservoir of	
List the names of diseases/health problems that are under the control, elimination, eradication and surveillance of current health program in Nepal.	 infection, iatrogenic infection, rate, ratio and proportion, surveillance, control, eradication, elimination. Concepts of disease causation Germ theory Epidemiological triad Multifactorial causation Web of causation 	

Evaluation methods: Written examination, Performance, observation, oral test. Sub-Unit 1.2: Concepts and method of	 Definition and concept of risk factors & risk groups. Illustrate risk factors & risk groups in relation with particular diseases. Names of diseases/health problems that are under the control, elimination, eradication and surveillance of current health program in Nepal. Teaching / Learning Activities / Resources: Prepare epidemiological triad of disease prevalent in community. Hours: 5
epidemiology	
Objectives:	Contents:
Explain the concept of epidemiology.	Purpose and function of epidemiology.
Describe scope of epidemiology	Methods of epidemiological measurements.
State purpose/aim of epidemiology.	• Principles purposes and methodology of descriptive epidemiology.
Describe principles, purposes and methodologies of screening.	 Common characteristics and attributes of descriptive epidemiology: time, place & person distribution. Principles, purposes and methodologies of screening.
Evaluation methods: Written examination, Performance, observation, oral test.	Teaching / Learning Activities / Resources: Demonstration and practice in handling of microscope.
Sub-Unit 1.3: Infectious disease epidemiology	Hours: 3
Objectives:	Contents:
Explain the principles and applications of the chain of infection. Describe application of concepts of infectious disease study. Discuss principles and methodology of the prevention of infectious diseases.	 Dynamics of disease transmission. Outline the transmission cycle of disease (chain of infection) "Reservoir" in terms of human reservoir in non-living things. Direct and indirect modes of transmission Incubation period" and "period of communicability" in relation to a susceptible host. Infectious disease prevention and control: Methods for controlling the reservoir, interruption of transmission and protecting the susceptible host.
Evolvation math - Jan White	> Method of control with relationship to a specific disease.
Evaluation methods: Written examination, Performance, observation, oral test.	Teaching / Learning Activities / Resources: Demonstration and practice in handling of microscope.
Sub-Unit 1.4: Investigation and	Hours: 7
management of an epidemic	

Objectives:	Contents:
Describe introduction, Causative agent, Mode of transmission, clinical features, investigations, complications, management Preventive measures of different disease.	 Introduction, epidemiology, causes, Mode of transmission, clinical features, investigations, complications, Preventive measures, management of following disease: Enteric fever, Cholera, Malaria, Rabies, Mumps, Measles, Meningitis, SARS, Filariasis, Infectious hepatitis, Kala-azar, Japanese encephalitis, Influenza, Tetanus, dengue fever, Scrub typhus, HIV/Aids Food poisoning Tuberculosis Bird flu Worm infestation Poliomyelitis Leprosy Chicken pox Diphtheria Alzheimer's disease Parkinson's disease
	 Sexually transmitted disease
Evaluation methods: Written examination, Performance, observation, oral test. Unit 2: Non communicable disease Sub-Unit 2.1: Genetic relation diseases and	Teaching / Learning Activities / Resources: Presentation and group discussion on each disease. Hours: 2 Hours: 2
effect of environmental factor	A.C
Objectives:	Contents:
Describe the genetic relation diseases and effect of environmental factor and behavioral factors Hypertension, cardiac disease, cancer, diabetes and obesity	 Epidemiology, its environmental factor, genetic relation disease Hypertension, Cardiac disease, Cancer, Diabetes Obesity
Evaluation methods: Written examination, Performance, observation, oral test.	Teaching / Learning Activities / Resources: classroom instruction and discussion, models, charts, textbook self- study.

Unit 3: Mental health and drug abuse	Hours: 2		
Sub-Unit 3.1: Mental health and drug	Hours: 2		
Objectives:	Contents:		
Define mental health, correlate with illness,	Definition of mental health, correlation		
describe the common mental problems in	with illness.		
Nepal and its management	Common mental problems in Nepal and		
Define drug, its abuse with examples,	its management.		
describe the diagnosis and management of	• Drug, its abuse with examples, diagnosi		
drug abuse in Nepal	and management of drug abuse in Nepal		
	Commonly abused drugs		
Explain the concept and importance of rehabilitation center.	Concept and importance of Rehabilitation		
	center.		
Evaluation methods: Written examination,	Teaching / Learning Activities /		
Performance, observation, oral test.	Resources: classroom instruction and		
	discussion, models, charts, textbook self-		
	study		
Unit 4: Culture and Health	Hours: 6		
Sub-Unit 4.1: Concepts of culture and health	Hours: 2		
Objectives:	Contents:		
Define culture.	• Definitions and meanings of culture.		
	• Elements of culture		
Illustrate examples of elements of culture and	> Beliefs		
their effects on health.	> Norms		
	> Taboos		
	> Traditions		
	> Customs		
	> Superstitions		
	Religious practices		
	Social boundaries		
	• Relationship between health, illness,		
	behavior and culture.		
Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources:		
exams, performance observation in real or	Group discussion on differences in culture		
simulated settings.	and belief of each student.		
Sub-Unit 4.2: Culture of ethnic groups in Nepal	Hours: 2		
Objectives:	Contents:		
List the main ethnic groups of Nepal and	Definition of ethnic group.		
describe the chief cultural habits of each.	• Ethnic groups living in Nepal and their		
	main cultural features.		
Identify and evaluate traditional medical practices in Nepal.	• Traditional medical practices in Nepal.		
•			
Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources:		
exams, performance observation in real or	classroom instruction and discussion,		
simulated settings.	models, charts, textbook self-study		
Sub-Unit 4.3: Effects of culture on health	Hours: 2		
Objectives:	Content:		
Discuss cultural habits that affect the health	Nepalese cultural practices and their offects on health:		
of an ethnic group on both positive and negative aspects.	effects on health: > Personal hygiene		
negative aspects.	, i cisonai nygione		

	T = , , .	
	> Food selections	
	> Preparation and storage of food	
	> Food taboos	
	> Sexual taboos	
Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources:	
exams, performance observation in real or		
simulated settings.	models, charts, textbook self-study	
Unit 5: Community Diagnosis	Hours: 12	
Sub-Unit 5.1: Introduction to Community Diagnosis	Hours: 2	
Objectives:	Contents:	
Define community diagnosis.	• Definition, aims and benefits of the	
Describe the benefits of using the community	community diagnosis process.	
diagnosis process.	• Steps of the community diagnosis	
	process:	
Explain the objectives of performing a	Preparation of tools, techniques and	
community diagnosis.	work plan.	
Identify the steps of the community diagnosis	Pre-testing of instruments	
process.	Rapport building	
	> Data collection	
Describe the components of a community	Data processing, analysis and	
diagnosis, using a realistic example.	interpretation	
Differentiate between community diagnosis	> Community presentation	
and clinical diagnosis.	> Planning and implementation of the	
	Managed Health Project (MHP)	
	> Evaluation	
	• Components of community diagnosis	
	> Demographic characteristics	
	> Social, economic and geographic	
	characteristics	
	> Environmental health and sanitation	
	> Knowledge, attitude and practice	
	(KAP) on health and health issue	
	> Maternal and child health	
	> Morbidity and disability	
	> Availability of health services and its	
	utilization.	
	> Community resources	
	> Community leaders	
	> Culture and tradition	
	Differences between community diagnosis and clinical diagnosis.	
Evaluation matheday weitter	diagnosis and clinical diagnosis.	
Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources:	
exams, performance observation in real or	classroom instruction and discussion,	
simulated settings.	models, charts, textbook self-study	
Sub-Unit 5.2: Data collection	Hours: 2	
Objectives:	Contents:	
Differentiate between primary and secondary	• Functions and characteristics of primary	
data and their sources.	and secondary data.	
	• Functions and characteristics of	
	qualitative and quantitative data.	

Give examples of primary and secondary sources.	• Purposes and characteristics of census and sample surveys.		
Differentiate hatrycon grantitative and	• methods of sampling:		
Differentiate between quantitative and	Sampling - Probability		
qualitative data, using examples.	 Simple random sampling 		
Identify the purposes of census and sample	Systematic (random) sampling		
surveys.	Systematic (random) samplingStratified sampling		
	Cluster sampling		
List sampling methods and explain the	Cluster samplingMultistage sampling		
significance of sample size.			
Describe methods of sampling.	> Non-probability sampling		
	Methods of data collection: H. C.		
Prepare, pre-test and rewrite a survey	> Use of questionnaire		
instrument.	> Observation with check list		
	> Interview		
	Focal group discussion		
	Participatory Rural Appraisal (PRA)		
	Rapid Rural Appraisal (RRA)		
	Ethical issues in community diagnosis		
Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources:		
exams, performance observation in real or	classroom instruction and discussion,		
simulated settings.	models, charts, textbook self-study		
Sub-Unit 5.3: Data processing	Hours: 2		
Objectives:	Contents:		
Explain each step of data processing.	Application of data processing steps:		
	> Data editing		
Apply data processing to a community	> Data coding		
diagnosis project in your field practice.	> Data tabulation		
	> Data analysis and interpretation		
	· · · · · · · · · · · · · · · · · · ·		
Evaluation methods: written exams and viva	 Data presentation Teaching / Learning Activities/Resource 		
	classroom instruction and discussion,		
exams, performance observation in real or	,		
simulated settings.	models, charts, textbook self-study		
Sub-Unit 5.4: Community presentation	Hours: 2		
Objectives:	Contents:		
Explain the aims and goals of the community	• Important functions of a community		
presentation of a community diagnosis.	presentation:		
Conduct a community presentation.	> To inform		
• •	> 10 motivate for action		
Identify the steps of a community	> To involve community members		
presentation.	• Steps of community presentation.		
Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources:		
exams, performance observation in real or	classroom instruction and discussion,		
simulated settings.	models, charts, textbook self-study		
Sub-Unit 5.5: Micro Health Project	Hours: 2		
Objectives:	Contents:		
List the three types of community health	Health needs assessment:		
needs and give examples of each.	Felt health needs		
needs and give examples of each.	Pert hearth needsObserved health needs		
Describe how to prioritize the various health	> Real health needs		
1 6	i > Keai neaiin needs		
needs of a community.			
needs of a community.	 Principles of needs assessment Introductions of a micro health project. 		

E-ulain day and a facility to the late and its	Character MIID
Explain the concept of micro health project	• Steps of a MHP:
(MHP).	Planning of the MHPImplementation of the MHP
Plan, implement and evaluate a micro health	> Evaluation of the MHP
project in your field practice.	Evaluation of the Wiffi
Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources:
exams, performance observation in real or	classroom instruction and discussion,
simulated settings.	models, charts, textbook self-study
Sub-Unit 5.6: Report writing	Hours: 2
Objectives:	Contents:
Explain the aims and benefits of project	Important benefits of report writing.
reports.	• Components of project report writing:
Describe the components of a project report.	> Title/title page
	> Acknowledgement
Prepare a project report based on findings.	> Preface/forward
	> Abstract/summary
	> Contents > Man (attudy area)
	> Map (study area)
	Project summary:Introduction
	Findings and discussionConclusion
	Recommendations
	> references / bibliography
	/ Telefences / Olollography
	> annex
Evaluation methods: written exams and viva	> annex Teaching / Learning Activities/Resources:
Evaluation methods: written exams and viva exams, performance observation in real or	Teaching / Learning Activities/Resources:
Evaluation methods: written exams and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and discussion,
exams, performance observation in real or	Teaching / Learning Activities/Resources:
exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives:	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Hours: 2 Contents:
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health,	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: • Definition of environment, environmental
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Hours: 2 Contents: • Definition of environment, environmental health, environmental sanitation and
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health,	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution.
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards.	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution.	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental hazards	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental hazards Teaching / Learning Activities/Resources: classroom instruction
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental hazards Evaluation methods: written exams and viva	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental hazards Teaching / Learning
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental hazards Evaluation methods: written exams and viva exams, performance observation in real or simulated settings.	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental hazards Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study:
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental hazards Evaluation methods: written exams and viva exams, performance observation in real or simulated settings. Unit 7: Water	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental hazards Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study: Hours: 5
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental hazards Evaluation methods: written exams and viva exams, performance observation in real or simulated settings. Unit 7: Water Sub-Unit 7.1: Water	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental hazards Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study: Hours: 5 Hours: 1
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental hazards Evaluation methods: written exams and viva exams, performance observation in real or simulated settings. Unit 7: Water Sub-Unit 7.1: Water Objectives:	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental hazards Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study: Hours: 5 Hours: 1 Contents:
exams, performance observation in real or simulated settings. Unit 6: Environmental Health Concepts Sub-Unit 6.1: Environmental health, hazards and effects Objectives: Define environment, environmental health, environmental sanitation and environmental pollution. Define environmental hazards. Describe types and effects of environmental hazards Evaluation methods: written exams and viva exams, performance observation in real or simulated settings. Unit 7: Water Sub-Unit 7.1: Water	Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study Hours: 2 Hours: 2 Contents: Definition of environment, environmental health, environmental sanitation and environmental pollution. Definition of environmental hazards Types and effects of environmental hazards Teaching / Learning Activities/Resources: classroom instruction and discussion, models, charts, textbook self-study: Hours: 5 Hours: 1 Contents: Sources of water
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Define safe and wholesome water	
	> Shallow wells
	> Deep wells
	> Springs
•	Daily requirement, nature and water
	cycle.
	Safe and wholesome water.
	Teaching / Learning Activities/Resources:
	Classroom instruction, teacher led
	discussion, textbook, hand-outs, group
	discussion
1	Hours: 2
3	Contents:
	Definition of water pollution
Describe causes of water pollution	Cases of water pollution and different
•	types of pollutants.
Identify important water borne diseases.	> Physical
	> Chemical
	> Biological
	Name of water borne diseases.
	Affected area and problem
Evaluation mothoday Whitton association	Affected area and problem.
	Teaching / Learning Activities/Resources:
	Classroom instruction, teacher led
	discussion, textbook, hand-outs, group
	discussion, field visit Hours: 2
	Contents:
Objectives:	Water purification in large scale & small
Describe different mostle de eferrates	
purification at the household level.	scale
purification at the household level.	scale Household water purification
purification at the household level.	scale
purification at the household level. Describe how to disinfect well water.	scale Household water purificationBoiling
purification at the household level. Describe how to disinfect well water. Mention the methods of water purification on a large scale.	 scale Household water purification Boiling House hold water purifier: - Filtration,
purification at the household level. Describe how to disinfect well water. Mention the methods of water purification on	 scale Household water purification Boiling House hold water purifier: - Filtration, Reverse osmosis, total dissolve
purification at the household level. Describe how to disinfect well water. Mention the methods of water purification on a large scale.	 scale Household water purification Boiling House hold water purifier: - Filtration, Reverse osmosis, total dissolve substance reduction (TDSR) and UV. Chemical Filtration
purification at the household level. Describe how to disinfect well water. Mention the methods of water purification on a large scale.	 scale Household water purification Boiling House hold water purifier: - Filtration, Reverse osmosis, total dissolve substance reduction (TDSR) and UV. Chemical Filtration SODISH
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purification at the household level. Describe how to disinfect well water. Mention the methods of water purification on a large scale. Describe the features of a sanitary well Evaluation methods: Written examination, Viva, Practical Unit 8: Waste Sub-Unit 8.1: Introduction of waste	 scale Household water purification Boiling House hold water purifier: - Filtration, Reverse osmosis, total dissolve substance reduction (TDSR) and UV. Chemical Filtration SODISH Disinfection of well Large scale water purification Slow sand filtration Rapid sand filtration Features of sanitary well Teaching / Learning Activities/Resources: Classroom instruction, teacher led discussion, textbook, hand-outs, group discussion, field visit, practical Hours: 7 Hours: 1
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Illustrate solid waste and identify their sources. Illustrate liquid wastes and identify their sources. Illustrate hazardous wastes and identify their sources.	 Types and sources of waste with examples Solid waste Liquid waste Hazardous waste
Evaluation methods: Written examination, Viva, Practical	Teaching / Learning Activities/Resources: Classroom instruction, teacher led discussion, textbook, hand-outs, group discussion, field visit, practical
Sub-Unit 8.2: Solid waste	Hours: 2
Objectives:	Contents:
Explain biodegradable and non-biodegradable solid wastes. Describe about solid waste management. Explain the 3R concept of minimizing waste Describe the disposal of waste in rural areas.	 Biodegradable and non-biodegradable solid wastes. Solid waste management Minimizing waste 3R concept: Reduce waste Reuse waste Recycle waste
Describe liquid waste management and its hazards.	 Hazards of solid waste. Disposal of waste in rural area Burial Manure pit Liquid waste management: at the household/institution level Bio gas plant with structure Septic tank. Others: Soakage pit Soak well Seepage pit Kitchen garden Dispersion trench Waste water treatment plant Hazards of liquid waste.
Evaluation methods: Written examination, Viva, Practical	Teaching / Learning Activities/Resources: Classroom instruction, teacher led discussion, textbook, hand-outs, group discussion, field visit, practical
Sub-Unit 8.3: Hospital waste management	Hours: 2
Objectives:	Contents:
Identify different kinds of hospital waste. Describe Hazards of hospital waste Describe Management of hospital waste Explain Hospital waste management guideline according to WHO	 Definition of Hospital waste Hazards of hospital waste Management of hospital was Separation of waste Using incineration Hospital waste management guideline
5 6	according to WHO

Evaluation methods: Written examination,	Teaching / Learning Activities/Resources:
Viva, Practical	Classroom instruction, teacher led discussion, textbook, hand-outs, group discussion, field visit, practical

Sub-Unit 8.4: Excreta disposal in the community	Hours: 2
Objectives:	Contents:
Describe about excreta disposal in community	Excreta disposal in community.
List name of fecal borne dieses.	Fecal borne dieses.Sanitary barrier.
Describe sanitary barrier.	Methods of excreta disposal
Describe methods of excreta disposal.	> Unsewered areas
Describe Components, structure and function of Water seal latrine.	 Sewered areas Components, structure and function of Water seal latrine (with diagram)
Describe excreta disposal in public places and transportation.	• Excreta disposal in public places and transportation.
Evaluation methods : Written examination, Viva, Practical	Teaching / Learning Activities/Resources: Classroom instruction, teacher led discussion, textbook, hand-outs, group discussion, field visit, practical:
Unit 9: Pollution	Hours: 4
Sub-Unit 9.1: Air pollution.	Hours: 2
Objectives:	Contents:
Define air pollution.	• Definition of air pollution
Describe effects of air pollution on health and	• Effects of air pollution
society.	> Health aspect
Describe sources of air pollution.	Social and economic aspectsSources of air pollution
Describe measures for the prevention and	> Automobiles
control of air pollution.	> Industries
control of all pollution.	> Domestic sources
	> Tobacco smoking
	Measures of air pollution control and
	prevention.
Evaluation methods: Written examination,	Teaching / Learning
Viva, Practical	Activities/Resources: Classroom
	instruction, group discussion, field visit,
	practical
	Н
Sub-Unit 9.2: Noise and radiation pollution	Hours: 2
Objectives:	Contents:
Discuss causes, effects, and control of noise pollution.	• Definition, cause, effects and control of noise pollution,
Describe the types, sources and effects of radiation exposure.	• Sources, types, effects, and protection from radiation exposure.

Evaluation methods: Written examination, Viva, Practical	Teaching / Learning Activities/Resources: Classroom instruction, group discussion, field visit,
Unit 10: Occupational Health	practical Hours: 4
Sub-Unit 10.1: Occupational health	Hours: 4
Objectives:	Contents:
Define occupational health.	Definition of occupational health
List the common occupational diseases. Describe the protection of health in occupational settings	 Occupational diseases Diseases due to physical agents. Diseases due to chemical agents. Diseases due to biological agents Occupational dermatitis Diseases of psychological origin. Protection of health in occupational settings by: Medical measures Engineering measures Legislation.
Evaluation methods: Written examination,	Teaching / Learning
Viva, Practical	Activities/Resources: Classroom
,	instruction, group discussion, field visit

References:

- 1. Park, K. (n.d.). Park's textbook of preventive and social medicine (Current ed.). M/S Banarasidas Bhanot.
- 2. Parker, D. J. P. (n.d.). Practical epidemiology (Current ed.). ELBS Publications.
- 3. Ghai, O. P., & Gupta, P. (n.d.). Essential preventive medicine (Current ed.). Vikas Publishing House.
- 4. World Health Organization. (n.d.). Basic epidemiology. WHO Press.

Community Medicine (Practical)

Practical: 22 hrs. (2 hrs./week)

Perform the followings:

22 hrs.

- 1. Sketch a diagram showing Spectrum of health and disease.
- 2. Sketch a diagram showing Ice berg phenomenon of diseases.
- 3. Sketch a diagram showing natural history of disease.
- 4. Calculate different epidemiological indicators.
- 5. Calculate sensitivity and specificity of a screening test
- 6. Prepare a Social map by visiting a community.
- 7. Perform at least three home visits and fill up the community diagnosis tools.
- 8. Proceed the data processing steps in group settings.
- 9. Prepare at least five dummy table by using filled up tools.
- 10. Prepare at least five frequency table by using filled up forms.
- 11. Prepare pie charts and Bar charts by using computer.
- 12. List any five cultural practices of own ethnic group having health impact.
- 13. Disinfect well using bleaching powder.
- 14. Chlorinate water by using chlorine solution and chlorine tablets.
- 15. Demonstrate chlorine test in a sample of water.
- 16. Prepare Observation report of household water purification process
- 17. Draw the structural diagram of sanitary latrines and biogas plant.
- 18. prepare report of water treatment plant at municipal level,
- 19. prepare report of waste disposal system at municipal level,
- 20. Prepare report of dumping, burial and burning of solid waste at local community.
- 21. prepare report of a slaughter house or a meat shop at local community,

Comprehensive Community Field Practice

(HP/PHCC attachment & community health diagnosis)

Total: 160 hrs. (4 weeks - 40 hrs./week)

Course Description:

This course is designed to provide hands on practical skills on acupuncture, acupressure and moxibustion in a community setup. In this program students will be placed at Health Posts and Primary Health Care Centers under the closed supervision of supervisor. Furthermore, the students will be eligible for Community Field Practice only after the completion of all the institute-based theory and practical subjects included in the curriculum.

Course Objectives:

After completion of this course, students will be able to:

- 1. Diagnose the diseases;
- 2. Conduct community environmental health related activities;
- 3. Give school and community-based health education;
- 4. Perform general examination;
- 5. Perform injecting, dressing and dispensing activities; and
- 6. Provide MCH, family planning and nutrition services.

Placement schedule:

Comn	Community Health Diagnosis and HP/PHCC attachment- 4 weeks/28 days		
Comn	nunity Health Diagnosis	- 14 days	
a.	Epidemiology, Community health diagnosis and Micro Health Project	- 8 days	
b.	Community environmental health related activities	- 3 days	
c.	School and community health education	- 3 days	
PHC/	Health Post Attachment	- 14 days	
a.	Client assessment	-5 days	
b.	Injection, dressing and dispensing	- 3 days	
c.	MCH/FP/Nutrition	- 3 days	
d.	Recording and reporting (Monthly and annual), logistic, meeting	- 3 days	

The student performs self-study/problem base learning on case studies and recording and reporting. The ratio of theory and practical and case study recording and reporting is 2:3.

On completion of this course the student will be able to:

Primary Health Care Services

- 1. Provide competent middle-level health care: diagnosis and treatment for uncomplicated mental & physical, acute & chronic health care problems.
- 2. Perform a complete history taking and physical exam on children and adults, to identify abnormal conditions.
- 3. Make home visits to fully assess the health care needs of the family situation.
- 4. Direct community outreach services.
- 5. Identify and respond to the needs of vulnerable populations (children, the poor persons without family, mentally disturbed, retarded, homeless, aged & infirm).
- 6. Intervene with the trafficking of vulnerable persons.
- 7. Identify the constraints, limitations and potentials of the health post situation when giving primary health care.
- 8. Use problem solving and adaptation to meet the health care needs of individuals or families.
- 9. Identify indications for referral to a higher-level health care facility.

Note: Minimum 5 cases in each sub-topics and maintain appropriate records according to heading.

Community Diagnosis

- 1. Develop a project timetable which sets the schedule for a community diagnosis project.
- 2. Develop and pretest a community survey questionnaire for the Community Diagnosis project.
- 3. Establish good rapport with the community members of the target population.
- 4. Create a geographic map of the selected community.
- 5. Collect data using a representative sample and appropriate techniques (questionnaire, interview, observation, others).
- 6. Process the data and perform an interpretation and needs assessment.
- 7. Present the community with an analysis of the problem.
- 8. Design and implement solutions in partnership with the community (Micro Health Project).
- 9. Evaluate the effectiveness of the solutions.

Community Environmental Health related activities

- 1. Promote public responsibility for environmental sanitation through health education.
- 2. Identify and resolve contamination of drinking water within the community.
- 3. Promote the construction of pit latrines.
- 4. Counsel individuals and community to promote personal hygiene habits.
- 5. Identify and advise individuals and community about hygienic methods for maintaining domestic animals.
- 6. Identify occurrences of threats to the eco-system of the community and promote public support for sound environmental management.
- 7. Apply environmental sanitation principles in controlling communicable disease.

Note: Minimum 1 case in each sub-topics implementation and maintain records.

Health Education

- 1. Identify and prioritize community health needs based on data collection.
- 2. Plan and implement health education programs that promote wellness, prevent illness, and teach curative and rehabilitative health care.
- 3. Use health education methods and media appropriately, creatively and effectively.
- 4. Monitor the implementation of health education programs.
- 5. Evaluate the effectiveness of health education programs and modify them as needed.

Family Health

- 1. Implement motivational strategies for selection of suitable family planning methods by individuals and couples.
- 2. Provide family planning materials, education and follow-up care.
- 3. Implement national guidelines for the care of mothers and children.
- 4. Provide for antenatal, perinatal, postnatal care to mothers and infants.
- 5. Promote and provide the recommended immunizations for children and mothers.
- 6. Execute and manage EPI and PHC outreach clinics.
- 7. Promote healthy nutrition among all family members.
- 8. Identify treat and resolve the problem of childhood malnutrition among community children.
- 9. Identify treat and prevent the common diseases of young children.
- 10. Maintain records of family planning methods, ANC and relevant forms
- 11. Demonstrate Balanced and mixed diet
- 12. Demonstrate preparation of Jeevan Jal and weaning foods

School Health

- 1. Identify and analyze the occurrence of health problems among school age children.
- 2. Identify and analyze environmental health problems of the schools.
- 3. Present a data-based needs analysis of school health problems to school authorities.

- 4. Implement solutions to school health problems.
- 5. Provide health instruction to students including nutrition, sex education and prevention of communicable disease.
- 6. Provide regular health checkups to school children.

Health Post Management

- 1. Describe the functions of the national public health care agencies, public health NGO's and INGO's and tell how the health post cooperates with each.
- 2. Analyze and describe community dynamics as they relate to community health.
- 3. Promote community partnership in health post activities.
- 4. Take appropriate measures to prevent/control communicable disease.
- 5. Maintain accurate records of health post activities.
- 6. Prepare monthly reports accurately and promptly and maintain records.
- 7. Supervise and direct the health post staff.
- 8. Maintain communications with all coordinating agencies,
- 9. Maintain health post supplies, inventories and logistics according to LMIS.
- 10. Promote quality assurance principles in health post activities.
- 11. Maintain a safe and pleasant health post environment.

Note: Develop a community diagnosis and community healt practicum written report and give an oral presentation.

Evaluation Scheme

Under this scheme students will have to perform a prescribed number of cases in each department.

The assigned teacher or supervisor continuously evaluates their performances for accuracy and precision according to the evaluation sheet proposed. Furthermore, there will be a final practical examination after at the end of community practice.

Distribution of marks for evaluation

S.N	Evaluator/Paper	Distribution of marks			Total
•		Internal	Final	Exam Time	Marks
1	Deleted UD/DUCC engaging	50			50
1	Related HP/PHCC supervisor (continuous evaluation)	50			50
	Related Teacher of the institute (continuous evaluation)/Internal exam	25			25
2	External examiner appointed by CTEVT (at the end)/Final exam		25	1 Hr	25
	Total	75	25		100

Important note: Each student must pass in each of the section of the evaluation as presented above with a minimum of 50% marks.

Internal Evaluation Scheme for Community Field Practice

Attendance:	25%
Participation in PHCC/HP activities:	25%
Participation in community activities:	25%
Report preparation and presentation:	25%
Total:	100%

Comprehensive Clinical Practice

FOR TCM (Hospital Setting)

Practical: 800 hrs. (20 weeks-40 hrs./week)

Course Description:

This program is designed to develop practical skills in students about acupuncture, acupressure and moxibustion in a hospital setup. In this program, students will be placed at Acupuncture clinics, Ayurveda Hospitals, Naturopathic hospitals and Western Medicine Hospitals under supervision of supervisors. Furthermore, the students will be eligible for Clinical Practice only after the completion of all the institute-based theory and practical subjects included in the curriculum.

Course Objectives:

After completion of this course, students will be able to:

- 1. Perform general examination;
- 2. Diagnose the disease;
- 3. Locate and apply relevant acupoints and acupressure points for treatment of disorders;
- 4. Apply moxa cone/stick for treatment of different disorders; and
- 5. Apply massage technique for treatment of different disorders.

Subject/Department -TCM	Duration
Acupuncture, Acupressure and Moxibustion	12 weeks
Department	
Massage Department	4 weeks
Community Field Practice	4 weeks

Perform history taking including general examination, diagnosis (Syndrome differentiation as well as modern diagnosis), acupuncture and acupressure point selection, moxibustion and management of following:

(Student have to submit minimum 20 varieties cases and must present minimum 2 Cases).

- 1. Take precaution while collecting the moxa plant
- 2. Performs moxa packing and transportation
- 3. Take precaution during packing and transportation of Moxa
- 4. Identify the location and puncture the point from twelve regular Meridian methods of puncture and regional anatomy
- 5. Identify the location of DU, Ren Meridian and extraordinary point methods of puncture and regional anatomy
- 6. Identify the location of five shu points and its utility
- 7. Identify the location of Yuan-Primary points (Spelling mistake) & its utility
- 8. Identify the location of Luo-connecting points & its utility
- 9. Identify the location of XI-cleft points and its utility
- 10. Identify the location of back shu point & its importance
- 11. Identify the location of front mu points & its importance
- 12. Diagnose the disease according to the color (Red, pale, yellow, blue, dark gray, iustrous and moist complexion green, white and black)
- 13. Diagnose the disease according to the appearance
- 14. Diagnose the disease according to the observation of the tongue
- 15. Diagnose the disease according to the absence or presence of sweat, sweat during sleep, spotaneous sweating and profuse sweating.
- 16. Diagnose the disease according to indication of poor appetite, loss of appetite, excessive appetite, lack of thirst, presence of thirst, bitter taste sweetish and greasy taste, sour taste in mouth, pungent and salty taste lack of taste in mouth.

- 17. Diagnose of diseases according to nature of pain, location of pain with their indications.
- 18. Palpate and differentiate normal and abnormal pulse in depth, Speed, strength, shape and rhythm.
- 19. Diagnose the disease according to deficiency and excess syndrome.
- 20. Diagnose the disease according to yin and yang.
- 21. Diagnose the disease according to deficiency of blood, stagnation of blood, heat in the blood.
- 22. Take case history and perform acupressure and oriental massage of body.
- 23. Check patient, find out sign and symptoms of different disease.
- 24. Treat disease using acupoints with reinforcing, reducing, warming, clearing, ascending and descending methods.
- 25. Handle microscope.
- 26. Observe slides.
- 27. Carry out urine test/sugar test.
- 28. Determine blood group.
- 29. Take blood sample.
- 30. Perform routine examination of blood.
- 31. Take case history of patient.
- 32. Perform general examination.
- 33. Perform systemetic examination of the sense organs (eye, ear, nose, tongue and skin)
- 34. Diagnose and treat communicable diseases.
- 35. Diagnose and treat non-communicable diseases.
- 36. Process Moxa.
- 37. Make Moxa Stick.
- 38. List out the method of applying or using moxa.
- 39. Point out the precaution during applying method.
- 40. Manage possible accidents of accupunture.
- 41. Perform needling practices.
- 42. Sterilize instruments and needles.
- 43. Apply moxa on point.
- 44. Manage possible accidents of moxibustion.
- 45. Perform cupping on proper part of body.

Evaluation Scheme

Under this scheme students will have to perform a prescribed number of cases in each department. The related supervisor and assigned teacher continuously evaluate their performances for accuracy and precision according to the evaluation sheet proposed. Furthermore, there will be a final practical examination at the end of community practice.

Distribution of marks for evaluation

S.N.	Evaluator/Paper	Distribution of marks			Total
		Internal	Final	Exam Hour	Marks
1	Related Hospital supervisor (continuous evaluation)	200			200
2	Related Teacher of the institute (continuous evaluation)/Internal exam	50			50
3	External Examiner appointed by CTEVT (at the end)/External exam		50	2 Hrs	50
	Total	250	50		300
	Total	200	100		300

Important note: Each student must pass in each of the section of the evaluation as presented above with a minimum of 50% marks.

Experts Involved in Curriculum Update Process

S. N	Name	Name of Office
1.	Dr. Jhalawar Adhikari	Naradevi Ayuveda Hospital
2.	Dr, Manju Dahal	Accupuneture Collage (R.H.E.S.C.)
3.	Dr, Radheshyam Silpakar	Naradevi Ayuveda Hospital
4.	Dr, Kasi Khatiwada	Singhadurbar Baidhyakhana
5.	Dr. Varun Upadhyay	Shree Kuntadevi Medi Clinic PVT LTD
6.	Dr. Sambardhan Dabadi	



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