

## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Regulatory Affairs		
Course Code	MPH 104T		
Course Outcomes & Bloom's Level	CO1- Understand the concepts of process, regulatory guidance's an Understand) CO2- Know the preparation of dos different countries(BL2-Understa CO3- Knowledge on post approva products, submission of global do CO4- Know the Regulatory guidar different countries.(BL3-Apply) CO5- Understand the clinical trials trials, pharmacovigilance and process.	d guidelines for filings siers and their substand) all regulatory require cuments in CTD/ ence's and guidelines requirements for a	omission to regulatory agencies in ements for actives and drug CTD formats(BL2-Understand) as for filing and approval process in approvals for conducting clinical
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	-	1	1	-	-	2	-	-	3	-	1	-	1
CO2	2	-	-	-	2	1	-	3	-	-	3	-	2	1	2
CO3	1	2	-	-	-	-	-	2	-	-	2	-	-	-	-
CO4	3	2	-	1	-	2	-	3	-	-	2	-	-1	2	-
CO5	2	1	-	-	1	1	-	1	-	-	2	-	-	2	_
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Modern Pharmaceutical Analytic	al Techniques											
Course Code	MPH 101T	1 101T											
Course Outcomes & Bloom's Level	CO1- Investigate the pharmaceu techniques(BL2-Understand) CO2- Investigate the pharmaceu techniques.(BL3-Apply) CO3- Investigate the pharmaceu (BL3-Apply) CO4- Recognize the principle, inchromatographic techniques.(BLCO5- Apprehend the fundamenta	tical substance by tical substance by tical substance by strumentation and a	Nuclear Magnetic spectroscopy  Mass spectroscopy techniques.  applications of different										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	-	3	-	-	-	-	-	3	-	1	-	1
CO2	3	2	3	-	2	1	-	-	-	-	3	-	2	1	2
CO3	3	1	1	-	1	2	-	-	-	-	3	-	2	-	1
CO4	3	1	1	2	2	2	-	-	-	-	3	-	1	2	2
CO5	2	1	2	-	2	2	-	-	-	-	3	-	-	1	-
CO6	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Drug Delivery System		
Course Code	MPH 102T		
Course Outcomes & Bloom's Level	pharmaceutical compound in therapeutic effect. Also about for transporting a pharmaceut its desired therapeutic effect v CO2- Know vaccine delivery ause. (BL2-Understand) CO3- Ability to communicate delivery which serves to improadministration(BL3-Apply) CO4- Apply latest drug deliver on the individual requirement (CO5- Create recent development)	the body as nee the approaches ical compound i vith suitable drug and different mod different types of ove the selectivit ry knowledge an BL3-Apply) nents in protein a	ve detailed information on transporting a eded to safely achieve its desired, formulations, technologies, and systems in the body as needed to safely achieve g delivery (BL2-Understand) de of application approach for clinical f Drug carrier used in the process of drug ty, effectiveness, and/or safety of drug and think to develop new formulation based and peptide for parenteral delivery deliver for antibiotics, insulin, etc(BL4-
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	3	-	3	1	-	-	-	-	3	-	1	-	1
CO2	3	-	2	-	1	2	-	-	-	-	3	-	2	1	-
CO3	3	1	3	-	2	-	-	-	-	-	3	-	-	-	2
CO4	3	-	1	-	2	1	-	-	-	-	3	-	-	1	2
CO5	2	2	3	1	1	-	-	-	-	-	3	-	1	2	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Modern Pharmaceutics												
Course Code	MPH 103T												
Course Outcomes & Bloom's Level	formulation development.(BL CO2- Recognize the importa during pharmaceutical manuf CO3- Describe current good management(BL2-Understa CO4- Analyze the importance Analyze)	.3-Apply) nce of validation facturing(BL2-U) manufacturing p nd) e of tablet compr	ression and compaction studies.(BL4-ameters employed in formulation										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	P08	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	3	-	1	-	-	-	-	-	3	-	1	-	1
CO2	3	1	1	-	2	-	-	-	-	-	3	-	-	1	-
CO3	2	2	2	1	2	-	-	-	-	-	3	-	2	2	2
CO4	2	1	1	-	2	-	-	-	-	-	3	-	1	-	2
CO5	2	2	2	2	-	1	-	-	-	-	3	-	1	-	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Pharmaceutics Practical I	rmaceutics Practical I									
Course Code	MPH 105P										
	CO2- The analysis of variou Evaluate)	3- Theoretical and practical skills of the instruments(BL3-Apply)									
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)								

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	3	1	1	-	-	-	-	-	3	-	1	-	1
CO2	3	1	2	2	2	-	-	-	-	-	3	-	2	1	2
CO3	3	2	3	-	1	-	-	-	-	-	3	-	3	-	2
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
CO6	_	_	_	_	-	_	-	-	-	-	-	_	-	-	_



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Assignments		
Course Code	MPH 106A		
Course Outcomes & Bloom's Level	CO1- To understand modern ph CO2- To understand various ph CO3- To understand the IPR in	armaceutical formu	
Course Elements	Skill Development X Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	-	-	-	-	-	-	-	1	-	1	-	1
CO2	2	2	2	-	-	-	-	-	-	-	1	-	-	2	-
CO3	1	1	-	-	-	-	1	-	-	-	1	-	-	-	1
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	_	_	-	-	-	-	-	-	-	-	-	-	-	-	-



# Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Online Certificate Course	nline Certificate Course										
Course Code	MPH 107ET	1 107ET										
Course Outcomes & Bloom's Level	CO1- TO INCREASE CREATIV	- TO INCREASE CREATIVE AND TECHNICAL SKILLS(BL4-Analyze)										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	-	-	-	-	3	-	-	3	-	3	1	2
CO2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Good Manufacturing in F	harma	
Course Code	MPH 108ET		
Course Outcomes & Bloom's Level	industries.(BL1-Rememb CO2- General and specif Understand)	oer) ic requirements ion, Quality Co GMP(BL3-App certification in i	ndustry (BL3-Apply)
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓		SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG12(Responsible consuption and production) SDG17(Partnerships for the goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	-	1	-	1	1	2	-	3	-	1	1	1
CO2	1	-	-	1	1	-	1	1	2	-	3	-	1	1	1
CO3	1	-	-	-	1	-	2	1	2	-	3	-	2	1	1
CO4	2	-	-	1	1	-	1	2	2	-	2	-	1	-	3
CO5	1	-	-	1	1	-	2	2	2	-	2	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Molecular Pharmaceutics (N	olecular Pharmaceutics (Nano Tech and Targeted DDS)											
Course Code	MPH 201T												
Course Outcomes & Bloom's Level	Understand) CO2- Describe methods for the liposome's (BL3-Apply) CO3- Outline the preparation vesicular nanocarriers. (BL3-ACO4- Discuss the different as	he preparation ar methods and ap <b>Apply)</b> spects of pulmona	es of targeted drug delivery systems(BL2- nd evaluation of polymeric nanoparticles plications of monoclonal antibodies and ary drug delivery systems(BL4-Analyze) sed therapeutic delivery systems(BL5-										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	3	3	-	-	-	-	-	3	-	3	-	3
CO2	2	2	2	3	2	-	-	-	-	-	3	-	2	1	2
CO3	2	1	3	2	1	-	-	-	-	-	3	-	2	-	1
CO4	3	2	3	2	3	-	-	-	-	-	3	-	3	2	2
CO5	1	1	3	2	2	-	-	-	-	-	2	-	2	2	3
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Advanced Biopharmaceutics &	& Pharmacokineti	ics
Course Code	MPH 202T		
Course Outcomes & Bloom's Level	Understand) CO2- Explain design and evalupharmacokinetic and biopharm CO3- Analyze raw data and debest describe the process of dielimination(BL3-Apply)	uation of dosage naceutics parame erive the pharmac rug absorption, di of biopharmaceut	ters(BL2-Understand) cokinetic models and parameters the istribution, metabolism and tics studies involving drug product problems and apply basic
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	3	1	3	-	-	-	-	3	-	1	1	1
CO2	2	1	2	2	2	2	-	-	-	-	2	-	2	2	2
CO3	2	2	3	1	2	1	-	-	-	-	2	-	1	2	2
CO4	3	-	1	2	2	2	-	-	-	-	3	-	2	-	2
CO5	3	1	3	2	3	2	-	-	-	-	2	-	1	1	3
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Computer Aided Drug Del	mputer Aided Drug Delivery System											
Course Code	MPH 203T												
Course Outcomes & Bloom's Level	and development(BL2-Un- CO2- Discuss the descript modeling(BL2-Understand CO3- Understand the ethic research(BL2-Understand CO4- Defend in silico appr	derstand) ors of drug disp d) cs and legal pro d) coaches for biop	uality by design in pharmaceutical research cosition utilized in computational otection of computing in pharmaceutical characterization(BL3-Apply) nation in pharmaceutical development(BL4-										
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG7(Affordable and clean energy) SDG9(Industry Innovation and Infrastructure)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	P08	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	3	-	3	-	1	-	-	-	3	-	1	-	1
CO2	2	2	3	-	3	-	-	-	-	-	3	-	-	1	2
CO3	1	-	2	-	2	-	-	-	-	-	3	-	2	2	2
CO4	3	1	2	-	3	-	1	-	-	-	2	-	1	-	-
CO5	3	-	1	-	3	-	1	-	-	-	2	-	-	2	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Cosmetics and Cosmeceu	osmetics and Cosmeceuticals										
Course Code	MPH 204T											
Course Outcomes & Bloom's Level	Remember) CO2- Understand key build Understand) CO3- Know the current ted CO4- Understand the scien with desired safety(BL2-Understand)	ding blocks of c chnologies in the ntific principles nderstand)	used in cosmetics and cosmeceuticals (BL1-osmetics for various formulations (BL2-e market(BL2-Understand) to develop cosmetics and cosmeceuticals in cosmetics(BL4-Analyze)									
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG9(Industry Innovation and Infrastructure)									

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	2	-	-	-	-	-	3	-	1	1	1
CO2	3	1	-	-	2	-	-	-	-	-	3	-	2	2	2
CO3	2	2	-	-	2	-	-	-	-	-	1	-	1	-	2
CO4	1	2	-	-	1	-	-	-	-	-	2	-	1	-	3
CO5	3	-	-	-	-	-	-	-	-	-	1	-	-	2	2
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Pharmaceutics Practical II												
Course Code	MPH 205P												
Course Outcomes & Bloom's Level	CO2- To understand the cond products and their significand CO3- To prepare several herb	To understand and apply the practical knowledge(BL2-Understand) To understand the concepts of bioavailability and bioequivalence of drugucts and their significance(BL2-Understand) To prepare several herbal and cosmetic formulations(BL3-Apply) Hands training on new deug devlopment softwares(BL3-Apply)											
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment X		SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	-	-	-	-	-	-	-	3	-	1	-	1
CO2	3	-	1	1	-	-	-	-	-	-	3	-	-	1	2
CO3	2	-	2	2	-	-	-	-	-	-	3	-	2	-	3
CO4	3	-	-	1	-	-	-	-	-	-	3	-	-	-	2
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Seminars	ninars											
Course Code	MPH 206S												
Course Outcomes & Bloom's Level	understanding of a topic by election CO2- To Focus on sharing the	The purpose of a seminar is to enable students to improve their knowledge and restanding of a topic by engaging with key issues(BL3-Apply)  To Focus on sharing the knowledge(BL3-Apply)  To improve the communicative ,presentation and understanding skills in nts(BL3-Apply)											
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG7(Affordable and clean energy)										

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1-	-	-	-	-	-	-	3	3	1	1	-	3
CO2	-	2	2	-	-	-	-	-	-	3	3	2	-	-	1
CO3	2	-	1	-	-	-	-	-	-	3	3	1	2	-	2
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Online Certificate Cour	line Certificate Course											
Course Code	MPH 207ET												
Course Outcomes & Bloom's Level	CO1- Why QbD, what is QbD? FDA objectives, the QbD approach() CO2- QbD and continuous processing: FDA perspective, advantages, challenges() CO3- Determining CPPs and CMAs, CQA,QTPP,RISK ASSESMENT()												
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG9(Industry Innovation and Infrastructure)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	-	-	-	-	-	-	-	3	-	1	1	1
CO2	2	2	2	-	-	-	-	-	-	-	3	-	2	2	2
CO3	3	-	-	-	-	-	-	-	-	-	3	-	1	1	1
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
CO6	_	-	_	_	-	_	-	-	_	-	-	_	-	-	_



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Introduction to intellectual	troduction to intellectual property rights										
Course Code	MPH 208ET	H 208ET										
Course Outcomes & Bloom's Level	CO2- To make the pharmad activities therein.(BL2-Und CO3- Develop the understaresearch activities in the pharmad CO4- To know the database	cy students awa erstand) anding of the In- armaceutical in e of intellectual	pharmacy students.(BL2-Understand) are about the pharmaceutical R & D and the tellectual Property Rights necessary for ndustry.(BL3-Apply) property and TKDL(BL2-Understand) afting and fillng of IPR(BL3-Apply)									
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values ✓ Environment X	SDG (Goals)	SDG1(No poverty) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG8(Decent work and economic growth) SDG17(Partnerships for the goals)									

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	P08	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	2	-	1	-	-	-	3	-	2	3	-	1	1	1
CO2	-	1	-	-	-	-	-	3	-	-	2	-	1	-	1
CO3	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	2	-	-	2	_	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Research Methodology and E	esearch Methodology and Biostatistics											
Course Code	MPH 301T	H 301T											
& Bloom's Level	work(BL2-Understand) CO2- Describe the appropriate design (BL2-Understand) CO3- Choose the appropriate hypothesis for a research pro-	2- Describe the appropriate statistical methods required for a particular research											
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	3	3	3	-	-	-	-	-	-	3	-	1	1	1
CO2	-	2	2	1	-	-	-	-	-	-	3	-	2	2	2
CO3	-	3	1	2	-	-	-	-	-	-	2	-	1	2	1
CO4	-	3	3	3	-	-	-	-	-	-	2	-	2	-	2
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Journal Club		
Course Code	MPH 302P		
Course Outcomes & Bloom's Level	knowledge(BL2-Understand	d)	e academic literature (BL3-Apply)
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X		SDG4(Quality education) SDG17(Partnerships for the goals)

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	-	1	-	-	-	-	-	-	3	-	1	2	3
CO2	1	2	-	2	-	-	-	-	-	-	3	-	-	3	1
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Discussion Presentation (F	scussion Presentation (Proposal Presentation)											
Course Code	MPH 303P												
Course Outcomes & Bloom's Level	CO2- to know how to set a	- To know how to frame a research problem() - to know how to set a hypothesis() - can able to perform literature survey, and prepare a proposal of thesis()											
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG17(Partnerships for the goals)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	2	2	-	-	-	-	-	-	3	-	1	2	2
CO2	3	1	1	1	-	-	-	-	-	-	3	-	2	2	1
CO3	1	2	2	3	-	-	-	-	-	-	2	-	1	1	1
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Research Work												
Course Code	MPH 304P												
Course Outcomes & Bloom's Level	CO2- To know about different re	1- To know how to conduct a research(BL2-Understand) 2- To know about different research methodolgies(BL2-Understand) 3- Apllication of research principles and stastical principles(BL3-Apply)											
Course Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values ✓ Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	2	-	-	-	-	3	-	1	3	3
CO2	3	2	3	2	2	1	-	-	-	-	3	-	2	1	3
CO3	3	3	3	2	2	1	-	-	-	-	3	-	3	1	3
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Research Presentation in Sem	inar/ Conference/Sy	/mposium										
Course Code	MPH 305P												
	·	develop the communication skills(BL2-Understand) develop presentation skills(BL3-Apply)											
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	-	-	-	-	-	-	-	3	3	3	1	2	3
CO2	1	1	1	-	-	-	-	-	-	3	3	3	2	2	2
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Journal Club	urnal Club											
Course Code	MPH 401P												
& Bloom's Level	CO1- To accquire communication knowledge(BL2-Understand) CO2- To critically evaluate recent		ssion, team work and to gain new demic literature (BL3-Apply)										
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	-	-	-	-	-	-	-	-	3	-	1	-	3
CO2	3	-	1	-	-	-	-	-	-	-	3	-	-	-	1
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	_	_	_	_	-	_	-	-	-	-	-	_	-	-	-



# Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Discussion/Presentation (Propo	osal Presentation)											
Course Code	MPH 402P												
	CO2- 2. To know how to set a h	,											
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	-	-	-	-	-	-	3	-	1	-	2
CO2	3	3	1	3	-	-	-	-	-	-	3	-	2	-	1
CO3	3	3	2	2	-	-	-	-	-	-	2	-	2	2	2
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Discussion/Final Presentation												
Course Code	MPH 403P												
I I Allrea I llitcamae	CO2- To know about different re	O1- To know how to conduct a research(BL2-Understand) O2- To know about different research methodolgies(BL2-Understand) O3- Application of research principles and stastical principles(BL3-Apply)											
Course Elements	Skill Development ✓ Entrepreneurship X Employability X Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	3	3	3	1	-	-	-	-	-	3	-	1	-	3
CO2	-	2	3	3	1	-	-	-	-	-	3	-	-	-	1
CO3	-	3	3	3	-	-	-	-	-	-	2	-	1	-	3
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Course mapping with relevance to the local, regional, national, and global developmental needs

Title of the Course	Research Publication /Report						
Course Code	MPH 404T						
	CO1- students should improve thier publication writing skills(BL2-Understand) CO2- Improve their communication skills (BL3-Apply) CO3- should get sound knowledge of various databases ,referencing styles and softwares(BL3-Apply)						
Course Elements	Skill Development ✓ Entrepreneurship X Employability ✓ Professional Ethics X Gender X Human Values X Environment X	SDG (Goals)	SDG4(Quality education)				

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	3	2	2	1	-	-	-	-	-	3	-	1	1	3
CO2	1	1	2	2	-	-	-	-	-	-	2	-	2	2	3
CO3	1	3	3	2	1	-	-	-	-	-	3	-	1	2	1
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	_	_	_	-	-	_	-	-	-	-	-	-	-	-	-