



Academic Year : 2023-2024 Institute/ Branch Name : Symbiosis Institute of Health Sciences Programme Name : Bachelor of Science (Radiotherapy)

Color Code Description:

Global			National / Local		Regional / National
Sr. No	GA No.	Graduate Attributes		PO No.	Programme Outcomes
1	GA1	Scholarship: research, inquiry and lifelong learning		PO1	To train students in the technological aspects of radiation therapy with a good scientific foundation.
2	GA3	Eco-literate: sensitivity towards a sustainable environment		PO2	To practice radiation safety principles & provide optimum patient care.
3	GA4	Employability: equipped with skills, attributes, leadership and entrepreneurial qualities that society needs; being capable of making a contribution to society through earning a living		PO3	To strengthen their instrumentation understanding with respect to principle, operation and maintenance to deliver the treatment plan effectively.
4	GA2	Global citizenship: ethical, social and professional understanding		PO4	To train the students to adapt to the continuous & emerging advancements in the field of therapeutic Radiotherapy
5	GA4	Employability: equipped with skills, attributes, leadership and entrepreneurial qualities that society needs; being capable of making a contribution to society through earning a living		PO5	To expose them to basics of research, management and cultivate analytical thinking.
6	GA4	Employability: equipped with skills, attributes, leadership and entrepreneurial qualities that society needs; being capable of making a contribution to society through earning a living		PO6	To polish the soft skills as applicable in the healthcare sector & work competently in a team of radiation oncology department.
7	GA2	Global citizenship: ethical, social and professional understanding		PO7	To develop the sensitivity towards society, environment sustainability & empathy towards the patients.

Sr No	Semester	Institute Course Code	Catalog Course Code	Title	Target	Course Outcome No	Course Outcome Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1	SEM I	401240101	TH4492	Anatomy-I	60	CO1	To recognize different structures, organs and organ systems within the body.	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
					60	CO2	To have a knowledge about histology of different tissues and organs.	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
					60	CO3	The scope of this course is to provide a basic understanding of the structure of the human body.	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
2	SEM I	401240102	TH4491	Physiology-I	60	CO1	To know the functions of parts of body, cells, tissues, organs and organ systems	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
					60	CO2	To understand normal physiological variations	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
					60	CO3	To identify disease state due to functional failure of the organ system	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
3	SEM I	401240103	T4946	Basic Sciences	60	CO1	Able to understand the basic concepts of maths, chemistry & physics.	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L
					60	CO2	Knowledge about applied mathematics & physics	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M	Strong-H	Weak-L
4	SEM I	401240104	TH4497	Psychology and Sociology	60	CO1	Understanding about the culture, customs and moral value of Indians	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
					60	CO2	Understanding the Family patterns in India	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M
					60	CO3	Mannerisms of patients in line with their social backgrounds	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
					60	CO1	To provide the basic understanding, principles and concepts of personality development and creative thinking.	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
					60	CO2	Learn the mannerism related to religion, social status and education..	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
					60	CO3	Understand concepts to organizational problems related to Health sector	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
5	SEM I	401240105	T3755	Basics of MS Office	60	CO1	Understand concepts to or To acquaint the students with basic computer skills. ganizational problems related to Health sector	Strong-H	Moderate-M	Moderate-M	Nil	Nil	Nil	Nil
					60	CO2	To provide the hands on training on computers	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L
6	SEM I	401240106	TH4496	Medical Physics	60	CO1	To provides basic knowledge of physics	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L

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14	SEM II	401240204	TH4507	Hospital Information System	60	CO1	Strong understanding of HIS	Moderate-M	Moderate-M	Weak-L	Strong-H	Weak-L	Strong-H	Weak-L
					60	CO2	Ability to Analyse information using different methodologies	Moderate-M	Weak-L	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L
					60	CO3	Confidently manage the HIS	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Weak-L
15	SEM II	401240205	T4440	Applied Mathematics	60	CO1	To be able to explain the basics of mathematics.	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Weak-L
					60	CO2	To be well informed with the applied mathematics for calculation of any scientific recordings and be able to read and interpret the stochastic process, to calculate the outcome of a specific reaction by mathematical calculation.	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L
16	SEM II	401240206	TH4493	Communication Skills for Allied Health Professionals I	60	CO1	Students must be able to use basic functional English language with good accuracy	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
					60	CO2	Confident in the use of verbal and written communication in healthcare.	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M
					60	CO3	Be able to write emails and enhance reading, listening and comprehension skills	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
17	SEM II	401240207	TH4494	Soft Skills for Allied Health Professionals	60	CO1	Students will learn the art of communicating with patients, clients, care givers and health care professionals	Strong-H	Weak-L	Moderate-M	Strong-H	Moderate-M	Strong-H	Weak-L
					60	CO2	Develop self awareness and improve relationships with others	Moderate-M	Strong-H	Weak-L	Strong-H	Weak-L	Strong-H	Moderate-M
					60	CO3	Use efficient techniques for all forms of written and verbal communication	Weak-L	Moderate-M	Weak-L	Strong-H	Weak-L	Strong-H	Weak-L
					60	CO4	Take up leadership role to coordinate, delegate and supervise care safely and manage risk	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
18	SEM II	401240208	T4439	Nutrition and Dietetics	60	CO1	To understand the various concepts of Nutrition.	Moderate-M	Moderate-M	Moderate-M	Strong-H	Strong-H	Moderate-M	Strong-H
					60	CO2	To know about the classification of food and the composition of various classes.	Moderate-M	Moderate-M	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L
					60	CO3	To know the sources, functions and deficiency conditions of carbohydrates, proteins, fats, vitamins & minerals.	Moderate-M	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H
19	SEM II	401240209	TH4095	Fitness for Life	60	CO1	Acquire knowledge and skills to make meaningful and lasting behaviour change.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO2	Participate in physical activity programs to enhance health, fitness & lifestyle.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO3	Select and adopt personalized strategies including activities, programs, and events that promote health and wellbeing.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
20	SEM III	401220301	T2208	Research Methodology	60	CO1	Understand research terminology	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L
					60	CO2	Identify the components of a literature review process	Weak-L	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L
					60	CO3	Critically analyze published research	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L
					60	CO4	Describe quantitative, qualitative and mixed methods approaches to research	Moderate-M	Weak-L	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L
					60	CO5	Be aware of the ethical principles of research, ethical challenges and approval processes	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Moderate-M	Weak-L
21	SEM III	401220302	TH4058	Applied Clinical Sciences (Radiotherapy)	60	CO 1	Interpret the radiographic images & find out the pathologies/abnormalities if any like fractures, tumors etc.	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L
					60	CO 2	Understanding of the medical conditions and this will help them to perform their duties more efficiently	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M
22	SEM III	401220303	T4938	Introduction to Medical Imaging	60	CO 1	The course should help the students have a basic working knowledge of the main imaging modalities and also help them actually use it in practice.	Strong-H	Weak-L	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
					60	CO 2	To enable the students to understand different imaging techniques & procedures & to make them aware of radiation safety.	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L
					60	CO 3	Achieve a level of knowledge so that they can function as technologists.	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M
					60	CO 4	Know each & every function, & if some problem occurs, they should be able to report it correctly to company engineers.	Moderate-M	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H	Strong-H
					60	CO 5	The course will help students to handle the patients.	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H
23	SEM III	401220304	T2560	Principles and practices of management	60	CO1	Explain the basic types of business functions	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H	Strong-H	Strong-H
					60	CO2	Explain the the varied range of business organizations	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M
					60	CO3	Demonstrate an overview of various domains under organization Management.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
					60	CO4	Illustrate the real-life examples based on management principles.	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H
					60	CO5	Relate the management practices and use in healthcare industry.	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H

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24	SEM III	401220305	TH4014	Principles of Practical Radiotherapy	60	CO 1	study of teletherapy machine parameters and beam profile data in order to calculate dose in different technique used.	Strong-H	Weak-L	Strong-H	Moderate - M	Moderate - M	Moderate - M	Nil
					60	CO 2	select beam modifying devices to achieve desirable dose distribution in patients.	Moderate - M	Strong-H	Weak-L	Moderate - M	Moderate - M	Nil	Nil
					60	CO 3	comparative study of different modalities.	Strong-H	Moderate - M	Moderate - M	Moderate - M	Moderate - M	Nil	Nil
25	SEM III	401220306	T4375	Principles of Radiation Oncology	60	CO 1	knowledge of radiation physics, its properties and applications in therapy.	Strong-H	Nil	Strong-H	Moderate - M	Weak-L	Strong-H	Nil
					60	CO 2	applications of radio-isotope in therapeutic and nuclear medicine	Moderate - M	Weak-L	Moderate - M	Weak-L	Moderate - M	Nil	Nil
					60	CO 3	able to establish link between schemes of cancer treatment i.e radiotherapy, chemotherapy, surgery etc.	Strong-H	Weak-L	Strong-H	Moderate - M	Weak-L	Nil	Moderate - M
					60	CO 4	compare and study staging of cancer describes by term TNM(tumor,nodes,metastasis)	Moderate - M	Weak-L	Nil	Weak-L	Moderate - M	Weak-L	Moderate - M
					60	CO 5	theoretical understanding of parameters used in radiation therapy i.e.dose, fractionation scheme	Strong-H	Nil	Weak-L	Moderate - M	Moderate - M	Nil	Nil
					60	CO 6	to follow safety regulations in order to prevent side effects of radiation.	Strong-H	Strong-H	Strong-H	Strong-H	Moderate - M	Weak-L	Weak-L
					60	CO 1	relate effects of ionising radiation and its mode of interaction.	Moderate - M	Strong-H	Nil	Nil	Weak-L	Nil	Nil
26	SEM III	401220307	TH4013	Radiation protection and safety	60	CO 2	knowledge of regulatory principles and philosophies of ICRP and AERB	Weak-L	Strong-H	Nil	Nil	Weak-L	Nil	Weak-L
					60	CO 3	Proper use of personal monitoring and area monitoring devices	Strong-H	Strong-H	Moderate - M	Moderate - M	Moderate - M	Nil	Moderate - M
					60	CO 4	thorough knowledge of commissioning of radiotherapy machines and to calculate shielding layout plan for safety.	Strong-H	Strong-H	Moderate - M	Weak-L	Weak-L	Moderate - M	Weak-L
					60	CO 5	identify and practice ways to optimize dose to radiation staff and general public.	Moderate - M	Strong-H	Weak-L	Moderate - M	Strong-H	Weak-L	Moderate - M
					60	CO 1	interpret biological effects of radiation i.e. stochastic and deterministic	Nil	Moderate - M	Nil	Nil	Nil	Weak-L	Nil
27	SEM III	401220308	T4376	Radiobiology	60	CO 2	relate physical aspects of dose absorption in cell or tissue. i.e. dose, time fractions, cell cycle stage etc.	Nil	Moderate - M	Nil	Weak-L	Weak-L	Nil	Moderate - M
					60	CO 3	classify different effects of radiation on different organs of the body	Nil	Moderate - M	Nil	Nil	Nil	Nil	Weak-L
					60	CO 4	extend theoretical understanding of parameters used in radiation therapy i.e.dose, fractionation scheme	Moderate - M	Weak-L	Nil	Nil	Nil	Weak-L	Nil
					60	CO 5	understanding theory of biological models and its development.	Nil	Weak-L	Nil	Moderate - M	Weak-L	Nil	Nil
					60	CO1	Basic knowledge of the element of nursing, handling the patient, communication with patients, hospital set up.	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Strong-H	Moderate-M
28	SEM III	401220309	T4951	Basic Patient Assessment	60	CO2	Understanding of medical terminologies.	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Weak-L
					60	CO3	Should be able to take Patients history, and other data, read & understand patient chart.	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L
					60	CO4	Check Vital signs, Inspect, Palpate, Percuss and Auscultate the patient.	Strong-H	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L
					60	CO5	Should be able to identify common physical findings in disease conditions, Arterial Blood Gases collection & Analysis, Understand Laboratory studies (blood, sputum, urine), Chest Radiography.	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L
					60	CO1	Ability to build an impressive personality	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Strong-H	Moderate-M
29	SEM III	401220310	T4441	Personality Development for Allied Health Professionals - I	60	CO2	Develop self awareness and improve relationships with others	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Weak-L
					60	CO3	Carry out a SWOT analysis and capitalise on ones own strengths and work upon ones own weaknesses	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L
					60	CO4	Inculcate leadership qualities to take up leadership roles	Strong-H	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L
					60	CO1	Be able to Understand the importance of conservation of environment	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H
30	SEM III	401220311	T2883	Core Environmental Studies	60	CO2	Have knowledge of the changing trends and deterioration of climate and other environmental elements	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H
					60	CO3	Be Aware and a responsible global Citizen	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H
					60	CO1	Develop sensitivity towards community issues	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H
31	SEM IV	401220401	T8000	Service Learning	60	CO2	To serve the community and enhancing the learning experience	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H
32	SEM IV	401220402	TH4094	Practical Brachytherapy and Teletherapy	60	CO 1	able to understand LDR(low dose rate), MDR(medium dose rate) & HDR(high dose rate) machines and their practical applications	Strong-H	Weak-L	Strong-H	Moderate - M	Moderate - M	Moderate - M	Nil
					60	CO 2	to get thorough with brachy techniques- surface mould, implants , intracavity.	Moderate - M	Weak-L	Moderate - M	Moderate - M	Moderate - M	Weak-L	Nil
					60	CO 3	able to express brachytherapy development (History of systems)	Moderate - M	Nil	Moderate - M	Strong-H	Weak-L	Weak-L	Nil
33	SEM IV	401220403	T4771	Fitness and Lifestyle Management	60	CO 1	Acquire knowledge and skills to make meaningful and lasting behaviour change.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO 2	Participate in physical activity programs to enhance health, fitness & lifestyle.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO 3	Select and adopt personalized strategies including activities, programs, and events that promote health and wellbeing	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
34	SEM IV	401220404	TH4015	Patient Set-up in Radiotherapy Treatment	60	CO 1	selection of correct patient positioning protocol	Moderate - M	Strong-H	Moderate - M	Moderate - M	Strong-H	Moderate - M	Strong-H
					60	CO 2	daily verification of patient positioning should be done else results in skin reaction	Strong-H	Strong-H	Moderate - M	Moderate - M	Strong-H	Moderate - M	Strong-H
					60	CO 3	extend patient care during and after each fraction, alertness towards pediatric, pregnant or lactating patients	Moderate - M	Strong-H	Moderate - M	Strong-H	Strong-H	Moderate - M	Strong-H
					60	CO 4	identify hierarchy of radiation treatment according to age, immunity & cancer stage	Strong-H	Moderate - M	Moderate - M	Nil	Moderate - M	Moderate - M	Weak-L

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35	SEM IV	401220405	T4380	Principles of Brachytherapy & Teletherapy	60	CO 1	theoretical understanding of difference between tele and brachy therapy and their applications.	Strong-H	Moderate - M	Moderate - M	Weak-L	Moderate - M	Weak-L	Nil
					60	CO 2	knowledge of brachytherapy concepts ,BT sources, construction and specifications of source i.e strength, activity etc	Strong-H	Moderate - M	Moderate - M	Moderate - M	Weak-L	Moderate - M	Nil
					60	CO 3	comparison of LDR,MDR & HDR brachytherapy machine and its calibration.	Moderate - M	Weak-L	Moderate - M	Moderate - M	Moderate - M	Moderate - M	Weak-L
					60	CO 4	brachytherapy safety planning, shielding calculations	Moderate - M	Strong-H	Moderate - M	Strong-H	Moderate - M	Weak-L	Strong-H
					60	CO 5	get acquainted characteristics of photon beam, beam profiles for different energies	Moderate - M	Moderate - M	Strong-H	Weak-L	Moderate - M	Moderate - M	Moderate - M
					60	CO 6	Co-60 and LINAC dose calculations	Moderate - M	Strong-H	Moderate - M	Weak-L	Moderate - M	Moderate - M	Nil
36	SEM IV	401220406	T4447	Personality Development for Allied Health Professionals - II	60	CO1	Develop students personal capabilities to make them self sustainable.	Weak-L	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Moderate-M
					60	CO2	Students must define their personal goals and evaluate their progress towards achievement of these goals	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Moderate-M
					60	CO3	Develop good interpersonal skills, a positive attitude and the ability to resolve conflicts amicably	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Moderate-M
					60	CO4	Demonstrate these skills while interacting with patients	Moderate-M	Weak-L	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H
37	SEM IV	401220407	T4775	Self Defence	60	CO1	Develop defensive preventive attitude and views of ones lifestyle	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L
					60	CO2	Recognize and avoid potentially dangerous situations.	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L
					60	CO3	Psychologically prepare the student for the possibility of an attack.	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L
					60	CO4	Develop working knowledge of basic self-defense techniques from various disciplines.	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L
					60	CO5	Acquire self-confidence, to instill the need and desire for physical conditioning, and a willingness to take affirmative action if actually assaulted.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M
38	SEM IV	401220408	T4777	Yoga	60	CO1	To experience good physical health & physique, to improve stamina, to release the mental stress & awaken the creativity, to release the emotional stress and ability to concentrate and experiencing the positive quality	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Moderate-M
					60	CO2	To introduce the practical aspects of yoga to experience the benefits on their personal, student and professional life	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Moderate-M
					60	CO3	To discuss and finding out their Potential Positive Quality (PPQ)	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Moderate-M
39	SEM IV	401220409	T4005	Integrated Disaster Management	60	CO1	To create awareness of various aspects of disasters, its preparedness and management.	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H
					60	CO2	To instill knowledge on reducing disasters and capacity building through community participation.	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H
					60	CO3	To train students to perform First aid and CPR in an emergency..	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H
40	SEM IV	401220410	T6284	Contemporary India and The World	60	CO1	To make the students interpret various growth models available to India over the centuries.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO2	To demonstrate these models, their adaptability and suitability and also show impact upon Indias developmental strategy.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO3	To relate the transition from a colonial to a post-colonial society through the medium of literature	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO4	To write, discuss and debates upon the newly created identities like diaspora and third Worldism	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO5	To show the students the cultural connotations of the globalism and localism of India in contemporary world.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
41	SEM IV	401220411	T6507	Introduction to Social Justice	60	CO1	To introduce the students to the concepts and practice of social justice in India as is	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO2	To critically examine the issues and practice of social justice in the context of specific	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO3	To locate issues and challenges to the practice of social justice in the present social, political and economic context.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
42	SEM IV	401220412	T6604	Political Science	60	CO1	This course will provide students with the background of some of the important theoretical concepts which make up contemporary world.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO2	The course will help the students in understanding the concepts and also to look critically at some of the major debates that have shaped the contours of these concepts and ideas.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO3	The course will help the students in engaging with the happenings in the world at large with the aid of these ideas in their institutional practices.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO1	To relate to theatre as literature & performing arts.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L

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43	SEM IV	401220414	T6477	Theater	60	CO2	To interpret the various elements involve in making	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO3	To use the inputs offered & to write once own prospective.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO4	To choose to watch a show	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO5	To prepare view point while attempting	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO6	To practice this form of theatre	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
44	SEM IV	401220415	T6475	Creative Writing	60	CO1	To Explore classic and modern styles and techniques of writing across genres.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO2	To Appreciate the aesthetics of selected excerpts.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO3	To Experiment with ones own writing style.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
45	SEM IV	401220416	T6491	Cyber Law	60	CO1	To interpret various types of Cyber crimes	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO2	To apply teaching ways of securing from being a victim of cyber crime	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO3	To relate laws relating to cyber-crimes, social media use, etc.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
46	SEM IV	401220417	T6487	Film Appreciation	60	CO1	To demonstrate skills related to watching and listening, to films, comprehension, critical thinking and expression.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO2	To illustrate the how to understand films.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
					60	CO3	To demonstrate a critical grasp on cinematic practices.	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
47	SEM IV	401220418	T6476	World Music	60	CO1	summarize & Apfly debates related to world music, accounting for both their strengths and limitations.	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO2	formulate a unique critical perspective that brings these debates forward	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO3	define and identify the basic elements of musical style, such as scale, rhythm, meter, mode etc	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L
48	SEM V	401220501	T4906	Summer Internship Programme	60	CO1	Provides hands on experience of the theoretical knowledge gained via lecture sessions.	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M
					60	CO2	Exposure to real time situations.	Moderate-M	Moderate-M	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H
					60	CO3	Witness, observe and understand the working of equipment operation, patient handling & reporting.	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Moderate-M
					60	CO4	Develops in depth understanding of department & hospital functioning.	Moderate-M	Moderate-M	Strong-H	Strong-H	Moderate-M	Moderate-M	Strong-H
49	SEM V	401220502	T4383	Clinical Oncology- I	60	CO 1	understand principles of oncology with basic knowledge of cell biology	Weak-L	Nil	Nil	Weak-L	Moderate - M	Moderate - M	Weak-L
					60	CO 2	understand purpose of surgery, chemotherapy and radiotherapy	Moderate - M	Nil	Nil	Moderate - M	Moderate - M	Weak-L	Nil
					60	CO 3	understand principles of cancer management	Nil	Moderate - M	Nil	Weak-L	Moderate - M	Moderate - M	Moderate - M
					60	CO 4	understand pharmacology of cancer biotherapeutics	Nil	Nil	Nil	Weak-L	Weak-L	Nil	Nil
					60	CO 5	extend knowledge towards clinical trials, cancer screening ,modes of diagnosis also prevention of cancer	Weak-L	Moderate - M	Nil	Moderate - M	Weak-L	Moderate - M	Moderate - M
50	SEM V	401220503	TH4016	Radiotherapy Dosimetry-I	60	CO 1	knowledge of basic concepts of dosimetry i.e dose ,KERMA, exposure, LET ect	Strong-H	Nil	Moderate - M	Weak-L	Weak-L	Weak-L	Nil
					60	CO 2	knowledge of cavity theory(bragg Gray), which is base of absorbed dose to water	Weak-L	Weak-L	Moderate - M	Weak-L	Nil	Nil	Nil
					60	CO 3	able to classify different radiation detectors based on its working principles	Moderate - M	Strong-H	Strong-H	Weak-L	Moderate - M	Weak-L	Moderate - M
					60	CO 4	understanding of calibration protocols i.e TRS-398	Moderate - M	Weak-L	Moderate - M	Weak-L	Moderate - M	Moderate - M	Nil
					60	CO 5	Able to perform dosimetric calculations based on knowledge of beam parameters	Weak-L	Weak-L	Moderate - M	Nil	Weak-L	Weak-L	Nil
51	SEM V	401220504	T4939	Applied Management in Radiotherapy Unit	60	CO1	Provides major components of management which will make them confident of handling day to day activities and management in a much more confident way in Radiotherapy Unit.	Moderate-M	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M
					60	CO2	Prepare a student to take up managerial responsibility of diagnostic division or Radiotherapy Unit	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M
52	SEM V	401220505	T4451	Basic Life Support	60	CO1	Perform high quality CPR in adult, infant and child	Moderate-M	Weak-L	Strong-H	Weak-L	Strong-H	Strong-H	Weak-L
					60	CO2	FBOA and its management	Weak-L	Strong-H	Strong-H	Strong-H	Moderate-M	Strong-H	Weak-L
					60	CO3	Successfully use AED and Defibrillator	Weak-L	Strong-H	Strong-H	Moderate-M	Weak-L	Strong-H	Weak-L
					60	CO4	Use Drugs in emergency conditions	Weak-L	Moderate-M	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L
53	SEM V	401220506	T4567	Soft Skills for Allied Health Professionals - I	60	CO1	Students will learn the art of communicating with patients, clients, care givers and health care professionals	Strong-H	Weak-L	Moderate-M	Strong-H	Moderate-M	Strong-H	Weak-L
					60	CO2	Develop self awareness and improve relationships with others	Moderate-M	Strong-H	Weak-L	Strong-H	Weak-L	Strong-H	Moderate-M
					60	CO3	Use efficient techniques for all forms of written and verbal communication	Weak-L	Moderate-M	Weak-L	Strong-H	Weak-L	Strong-H	Weak-L

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					60	CO4	Take up leadership role to coordinate, delegate and supervise care safely and manage risk	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
54	SEM VI	401220601	T4806	Project	60	CO1	Understand & Explain a diagnostic / therapeutic aspect related to the specialisation	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
					60	CO2	Review the available information & analyse the observations made during the practical training.	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
55	SEM VI	401220602	T4996	Advanced Cardiac Life Support (ACLS)	60	CO1	Perform effective CPR for infant, child and adult.	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Weak-L
					60	CO2	Should be able to use airway adjuncts, AED, Defibrillator	Moderate-M	Weak-L	Strong-H	Weak-L	Moderate-M	Weak-L	Weak-L
					60	CO3	Should be able to administer medications to emergency patients	Strong-H	Weak-L	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L
					60	CO4	Should be able to demonstrate megacodes and solve given case scenarios	Strong-H	Weak-L	Strong-H	Strong-H	Weak-L	Strong-H	Weak-L
					60	CO5	Should know the algorithms for Cardiac arrest, stroke, Acute Coronary syndrome	Strong-H	Weak-L	Strong-H	Strong-H	Weak-L	Strong-H	Weak-L
56	SEM VI	401220603	TH4018	Radiotherapy Machines, Instrumentation and Quality Assurance	60	CO 1	Thorough knowledge of radiation generating equipments and it optimized use.	Moderate - M	Strong-H	Moderate - M	Strong-H	Moderate - M	Strong-H	Moderate - M
					60	CO 2	Understanding of beam profiles of photon and electron beam and select for treatment accordingly.	Moderate - M	Moderate - M	Moderate - M	Moderate - M	Moderate - M	Moderate - M	Moderate - M
					60	CO 3	Apply proper QA protocols and perform acceptance testing for teletherapy machines.	Strong-H	Strong-H	Strong-H	Moderate - M	Strong-H	Strong-H	Strong-H
					60	CO 4	Perform QA programs for LINAC and make optimizes use of machine.	Moderate - M	Moderate - M	Moderate - M	Strong-H	Moderate - M	Strong-H	Moderate - M
					60	CO 5	Ensure good working condition for radiation workers and verify dose level within accepted limits given by AERB.	Strong-H	Strong-H	Moderate - M	Strong-H	Strong-H	Strong-H	Strong-H
57	SEM VI	401220604	TH4017	Radiotherapy Dosimetry-II	60	CO 1	with proper understanding of beam profile select photon or electron beam for treatment	Strong-H	Moderate - M	Moderate - M	Weak-L	Moderate - M	Weak-L	Moderate - M
					60	CO 2	apply all correct protocols for absolute, relative dosimetry of photon or electron beam	Strong-H	Moderate - M	Moderate - M	Weak-L	Weak-L	Weak-L	Nil
					60	CO 3	calculate and use correction factors for dose calculation	Moderate - M	Moderate - M	Moderate - M	Weak-L	Weak-L	Weak-L	Nil
					60	CO 4	verification of patient dose in treatment plan by selecting right dosimeter	Moderate - M	Strong-H	Moderate - M	Moderate - M	Moderate - M	Weak-L	Moderate - M
					60	CO 5	brachytherapy QA and verify source decay correction	Strong-H	Strong-H	Strong-H	Moderate - M	Moderate - M	Weak-L	Nil
58	SEM VI	401220605	T4387	Clinical Oncology- II	60	CO 1	With proper understanding of beam profile select photon or electron beam for treatment.	Strong-H	Moderate - M	Moderate - M	Weak-L	Moderate - M	Weak-L	Moderate - M
					60	CO 2	Apply all correct protocols for absolute, relative dosimetry of photon or electron beam.	Strong-H	Moderate - M	Moderate - M	Weak-L	Weak-L	Weak-L	Moderate - M
					60	CO 3	Calculate and use correction factors for dose calculation.	Moderate - M	Moderate - M	Moderate - M	Weak-L	Weak-L	Weak-L	Moderate - M
					60	CO 4	Verification of patient dose in treatment plan by selecting right dosimeter.	Moderate - M	Strong-H	Moderate - M	Moderate - M	Moderate - M	Weak-L	Moderate - M
						CO 5	Brachytherapy QA and verify source decay correction.	Strong-H	Strong-H	Strong-H	Moderate - M	Moderate - M	Weak-L	Moderate - M
					60	CO 6	To be able to recognise and handle emergencies like stroke, ACS, respiratory arrest and arrhythmias.	Strong-H	Strong-H	Moderate - M	Moderate - M	Moderate - M	Moderate - M	Moderate - M
59	SEM VI	401220606	T4568	Soft Skills for Allied Health Professionals - II	60	CO1	Students must reflect upon their own learning, performance and/or achievement and plan for their personal, educational and career development.	Strong-H	Strong-H	Weak-L	Strong-H	Moderate-M	Strong-H	Weak-L
					60	CO2	Become more effective, independent and confident self-directed learners;	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Moderate-M	Weak-L
					60	CO3	Improve their general skills for study and career management;	Strong-H	Moderate-M	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L
					60	CO4	Articulate their personal goals and evaluate progress towards their achievement	Weak-L	Strong-H	Strong-H	Moderate-M	Weak-L	Strong-H	Weak-L
					60	CO5	Develop a positive attitude to learning throughout life.	Weak-L	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L