

Name of the Institute: Symbiosis Institute of Health Sciences (SIHS)

Name of the Programme: B.Sc. Radiotherapy

Revision in Syllabus

Institute Code	Institute Name	Programme Code	Program Name	Catalog Course Code	Catalog Course Name	Course Type	Batch 2020	Batch 2021	Change in T-Code Yes / No	Change in course/ Nature	Change in Pedagogy	Change in evaluation	Change in instruction method	Add on course	Changes Yes: Revised No: Not Revised
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	GEN002	Project	Core	Base PS	No Change	No			Yes			Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	GEN003/	Internship	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	SWM01	Swayam Course	Elective		Added	Yes						Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T2208	Research Methodology	Core	Base PS	No Change	No		Yes				Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T2560	Principles and Practices of Management	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T2883	Core Environmental Studies	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4005	Integrated Disaster Management	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4107	Basic Pharmacology	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4375	Principles of Radiation Oncology	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4376	Radiobiology	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4380	Principles of Brachytherapy &	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4383	Clinical Oncology- I	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4387	Clinical Oncology- II	Core	Base PS	No Change	No			Yes	Yes		Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4427	Medical Ethics and Legal Aspects	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4429	Physiology I	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4430	Hospital Practices and Patient Care I	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4431	Sociology	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4432	Psychology	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4433	Computer Skills	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4435	Communication Skills for Allied Health Professionals - Advanced	Core	Base PS	No Change	No		Yes				Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4436	Physiology II	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4439	Nutrition & Dietetics	Elective	Base PS	No Change	No				Yes		Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4440	Applied Mathematics	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4441	Personality Development for Allied Health Professionals - I	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4447	Personality Development for Allied Health Professionals - II	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4451	Basic Life Support	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4499	Medical Physics	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4502	Computer Language	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4565	Anatomy I	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4566	Anatomy II	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4567	Soft Skills for Allied Health Professionals	Core	Base PS	No Change	No			No			No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4568	Soft Skills for Allied Health Professionals	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4771	Fitness and Lifestyle Management	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4775	Self Defence	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4777	Yoga	Core	Base PS	No Change	No						No

401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4938	Introduction to Medical Imaging	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4939	Applied Management in Radiotherapy Unit	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4946	Basic Sciences	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4947	Communication Skills for Allied Health Professionals - Foundation	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4948	Basic Biochemistry	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4949	Basic Microbiology & Parasitology	Core	Base PS	No Change	No				Yes		Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4950	Pathology	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4951	Basic Patient Assessment	Core	Base PS	No Change	No		Yes				Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T4996	Advanced Cardiac Life Support (ACLS)	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6284	Contemporary India and The World	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6475	Creative Writing	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6476	World Music	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6477	Theater	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6487	Film Appreciation	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6491	Cyber law	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6507	Introduction to Social Justice	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T6604	Political Science	Elective	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4013	Radiation Protection and Safety	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4014	Principles of Practical Radiotherapy	Core	Base PS	No Change	No		Yes				Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4015	Patient Set-up in Radiotherapy	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4016	Radiotherapy Dosimetry-I	Core	Base PS	No Change	No		Yes				Yes
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4017	Radiotherapy Dosimetry-II	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4018	Radiotherapy Machines,	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4058	Applied Clinical Sciences (Radiotherapy)	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4093	Hospital Practices & Patient Care II	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4094	Practical Brachytherapy and Teletherapy	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	TH4095	Fitness for Life	Core	Base PS	No Change	No						No
401	SIHS, Pune	40122	B.Sc. (Radiotherapy)	T8000	Service Learning	Core	Base PS	No Change	No						No

Total number courses 63
Revision in number of courses 10
% Revision 15.87

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SYMBIOSIS INSTITUTE OF HEALTH SCIENCES

Symbiosis International (Deemed University)

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A' grade (3.58/4) | Awarded Category - I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M.Sc., Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)



Percentage of Programmes where syllabus revision was carried out from AY 2020-2021 to 2021-2022

Name of the Institute: Symbiosis Institute of Health Sciences (SIHS)

Name of the Programme: B.Sc. Radiotherapy

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Sanjivani

Ms. Sanjivani Maral
Faculty In-Charge
Medical Technology





Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2021-24

1.	OBJECTIVE	To train students in Radiotherapy techniques with specific objective driven learning such as Radiation safety, Special patient preparation before the study to obtain the most accurate result in radiotherapy procedures and handling the machines used for the procedures effectively. These students would be in a position to competently assist the Physician, to cater to the branch of Radiotherapy globally.			
2.	DURATION (IN MONTHS)	36 (Full Time)			
3.	INTAKE	6			
4.	RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)
			15	7.5	3
		II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)	b) International Students (In Percentage)	
				2	15
5.	ELIGIBILITY	Passed Standard XII (10+2) or equivalent examination from any recognised Board with any two of the following subjects: Physics, Chemistry, Biology, Botany, Zoology, Biochemistry, Microbiology, Mathematics OR equivalent as decided by competent authority			
6.	SELECTION PROCEDURE	Selection based on marks in Qualifying Examination followed by Entrance Examination, Personal Interaction and Written Ability Test.			
7.	MEDIUM OF INSTRUCTION	English			
8.	PROGRAMME PATTERN	Semester			
9.	COURSE & SPECIALIZATION	As per Annexure A			
10.	FEE		Academic Fee p.a	Institute Deposit	Total
			190000	10000	200000
		International Students (USD equivalent to INR)	285000	10000	295000
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 40% internal component and 60% external component [University] examination.			
12.	STANDARD OF PASSING	The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students			

		securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Bachelor of Science (Radiotherapy) will be awarded at the end of semester VI examination by taking into consideration the performance of all semester examinations after obtaining 4.000 CGPA out of 10 CGPA.

14. NATURE WISE DISTRIBUTION OF CREDITS							
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	20	1	0	0	0	0	21
2	18	1	0	0	0	1*	19
3	20	0	0	0	0	1*	20
4	16	4	0	0	0	1*	20
5	20	0	0	0	0	0	20
6	20	0	0	0	0	0	20
Total	114	6	0	0	0	0	120

* Satisfactory completion of the non letter grade courses 'Integrated Disaster Management, 'Fitness for Life' and 'Core Environmental Studies' is mandatory for award of degree.

Satisfactory completion of minimum 1 month observer ship with hospital after completion of semester II examination and 3 months of On Job Training with hospital/industry/Research organization after completion of final year (semester VI) examination is mandatory for award of degree.

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council. Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Head - Academics

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Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2021-24

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
Semester : 1									
Generic Core Courses									
T4565	0401220101	Anatomy I		4	40	40	0	20	100
T4948	0401220102	Basic Biochemistry		4	40	40	0	20	100
T4429	0401220103	Physiology I		4	40	40	0	20	100
T4107	0401220104	Basic Pharmacology		2	20	0	0	30	50
T4946	0401220105	Basic Sciences		2	20	0	0	30	50
T4430	0401220106	Hospital Practices and Patient Care I		2	20	0	0	30	50
T4947	0401220107	Communication Skills for Allied Health Professionals - Foundation		1	25	0	0	0	25
T4427	0401220108	Medical Ethics and Legal Aspects		1	25	0	0	0	25
Total				20	230	120	0	150	500
Generic Elective Courses Group									
T4433	0401220109	Computer Skills		1	25	0	0	0	25
T4432	0401220110	Psychology		1	25	0	0	0	25
T4431	0401220111	Sociology		1	25	0	0	0	25
Total Required Credits				1	25	0	0	0	25
Semester : 2									
Generic Core Courses									
T4949	0401220201	Basic Microbiology & Parasitology		4	40	40	0	20	100
T4950	0401220202	Pathology		4	40	40	0	20	100
T4566	0401220203	Anatomy II		3	30	0	0	45	75
T4436	0401220204	Physiology II		3	30	0	0	45	75
TH4093	0401220205	Hospital Practices & Patient Care II		2	20	0	0	30	50
T4435	0401220206	Communication Skills for Allied Health Professionals - Advanced		1	25	0	0	0	25
T4499	0401220207	Medical Physics		1	25	0	0	0	25
TH4095	0401220208	Fitness for Life *		0	0	0	0	0	Non Letter Grade
Total				18	210	80	0	160	450
Generic Elective Courses Group									
T4440	0401220209	Applied Mathematics		1	25	0	0	0	25
T4502	0401220210	Computer Language		1	25	0	0	0	25



Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2021-24

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
T4439	0401220211	Nutrition & Dietetics		1	25	0	0	0	25
Total Required Credits				1	25	0	0	0	25
Semester : 3									
Generic Core Courses									
T2208	0401220301	Research Methodology		4	40	40	0	20	100
TH4058	0401220302	Applied Clinical Sciences (Radiotherapy)		2	20	30	0	0	50
T4938	0401220303	Introduction to Medical Imaging		2	20	0	0	30	50
T2560	0401220304	Principles and Practices of Management		2	20	30	0	0	50
TH4014	0401220305	Principles of Practical Radiotherapy		2	20	0	0	30	50
T4375	0401220306	Principles of Radiation Oncology		2	20	30	0	0	50
TH4013	0401220307	Radiation protection and safety		2	20	30	0	0	50
T4376	0401220308	Radiobiology		2	20	30	0	0	50
T4951	0401220309	Basic Patient Assessment		1	25	0	0	0	25
T4441	0401220310	Personality Development for Allied Health Professionals - I		1	25	0	0	0	25
T2883	0401220311	Core Environmental Studies *		0	0	0	0	0	Non Letter Grade
Total				20	230	190	0	80	500
Semester : 4									
Generic Core Courses									
T8000	0401220401	Service Learning		4	100	0	0	0	100
TH4094	0401220402	Practical Brachytherapy and Teletherapy		3	30	0	0	45	75
T4771	0401220403	Fitness and Lifestyle Management		2	50	0	0	0	50
TH4015	0401220404	Patient Set-up in Radiotherapy Treatment		2	20	0	0	30	50
T4380	0401220405	Principles of Brachytherapy & Teletherapy		2	20	30	0	0	50
T4447	0401220406	Personality Development for Allied Health Professionals - II		1	25	0	0	0	25
T4775	0401220407	Self Defence		1	25	0	0	0	25
T4777	0401220408	Yoga		1	25	0	0	0	25



Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2021-24

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Cre-dits	Internal Marks	External Mark	Internal Practical Marks	External Practica I Marks	Total Marks
T4005	0401220409	Integrated Disaster Management *		0	0	0	0	0	Non Letter Grade
Total				16	295	30	0	75	400
Generic Elective Courses Group									
T6284	0401220410	Contemporary India and The World		2	50	0	0	0	50
T6507	0401220411	Introduction to Social Justice		2	50	0	0	0	50
T6604	0401220412	Political Science		2	50	0	0	0	50
SWM01	0401220413	Swayam Course		2	50	0	0	0	50
T6477	0401220414	Theater		2	50	0	0	0	50
T6475	0401220415	Creative Writing		1	25	0	0	0	25
T6491	0401220416	Cyber Law		1	25	0	0	0	25
T6487	0401220417	Film Appreciation		1	25	0	0	0	25
T6476	0401220418	World Music		1	25	0	0	0	25
Total Required Credits				4	100	0	0	0	100
Semester : 5									
Generic Core Courses									
T4906	0401220501	Summer Internship Programme		7	70	0	0	105	175
T4383	0401220502	Clinical Oncology- I		4	40	40	0	20	100
TH4016	0401220503	Radiotherapy Dosimetry-I		4	40	40	0	20	100
T4939	0401220504	Applied Management in Radiotherapy Unit		2	20	0	0	30	50
T4451	0401220505	Basic Life Support		2	25	0	0	25	50
T4567	0401220506	Soft Skills for Allied Health Professionals - I		1	25	0	0	0	25
Total				20	220	80	0	200	500
Semester : 6									
Generic Core Courses									
T4806	0401220601	Project		6	60	0	0	90	150
T4996	0401220602	Advanced Cardiac Life Support (ACLS)		4	40	40	0	20	100
TH4018	0401220603	Radiotherapy Machines, Instrumentation and Quality Assurance		4	40	40	0	20	100
TH4017	0401220604	Radiotherapy Dosimetry-II		3	40	0	0	35	75
T4387	0401220605	Clinical Oncology- II		2	30	0	0	20	50
T4568	0401220606	Soft Skills for Allied Health Professionals - II		1	25	0	0	0	25



Celebrating 50 Years of Excellence

Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2021-24

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
Total				20	235	80	0	185	500



Celebrating 50 Years of Excellence

Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2021-24

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	3	18	21	525
Semester 2	3	16	19	475
Semester 3	2	18	20	500
Semester 4	13	7	20	500
Semester 5	1	19	20	500
Semester 6	1	19	20	500
Total	23	97	120	3000



Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2020-23

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2.	DURATION (IN MONTHS)	36 (Full Time)			
3.	INTAKE	6			
4.	RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)
			15	7.5	3
		II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)	b) International Students (In Percentage)	
			2	15	
5.	ELIGIBILITY	Passed Standard XII with any two of the following subjects: Physics, Chemistry, Biology, Botany, Zoology, Biochemistry, Microbiology, Mathematics OR equivalent as decided by competent authority.			
6.	SELECTION PROCEDURE	Selection based on marks in Qualifying Examination followed by Entrance Examination, Personal Interaction and Written Ability Test.			
7.	MEDIUM OF INSTRUCTION	English			
8.	PROGRAMME PATTERN	Semester			
9.	COURSE & SPECIALIZATION	As per Annexure A			
10.	FEE		Academic Fee p.a	Institute Deposit	Total
		Indian Students	190000	10000	200000
		International Students (USD equivalent to INR)	285000	10000	295000
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 40% internal component and 60% external component [University] examination.			
12.	STANDARD OF PASSING	The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared			

		FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Bachelor of Science (Radiotherapy) will be awarded at the end of semester VI examination by taking into consideration the performance of all semester examinations after obtaining 4.000 CGPA out of 10 CGPA.

14. NATURE WISE DISTRIBUTION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	20	1	0	0	0	0	21
2	18	1	0	0	0	0	19
3	20	0	0	0	0	2*	20
4	16	4	0	0	0	1*	20
5	20	0	0	0	0	0	20
6	20	0	0	0	0	0	20
Total	114	6	0	0	0	0	120

* Satisfactory completion of the non letter grade courses 'Integrated Disaster Management, 'Fitness for Life' and 'Core Environmental Studies' is mandatory for award of degree.

Satisfactory completion of minimum 1 month observer ship with hospital after completion of semester II examination and 3 months of On Job Training with hospital/industry/Research organization after completion of final year (semester VI) examination is mandatory for award of degree.

The revised programme structure supersedes the previously approved programme structure dated 12/06/2020 for the programme.

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

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Symbiosis Institute of Health Sciences, Pune
Bachelor of Science (Radiotherapy)
Programme Structure 2020-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
Semester : 1									
Generic Core Courses									
T4565	0401220101	Anatomy I		4	40	40	0	20	100
T4429	0401220102	Physiology I		4	40	40	0	20	100
T4948	0401220103	Basic Biochemistry		4	40	40	0	20	100
T4107	0401220104	Basic Pharmacology		2	20	0	0	30	50
T4430	0401220105	Hospital Practices and Patient Care I		2	20	0	0	30	50
T4946	0401220106	Basic Sciences		2	20	0	0	30	50
T4427	0401220107	Medical Ethics and Legal Aspects		1	25	0	0	0	25
T4947	0401220108	Communication Skills for Allied Health Professionals - Foundation		1	25	0	0	0	25
Total				20	230	120	0	150	500
Generic Elective Courses Group									
T4431	0401220109	Sociology		1	25	0	0	0	25
T4432	0401220110	Psychology		1	25	0	0	0	25
T4433	0401220111	Computer Skills		1	25	0	0	0	25
Total Required Credits				1	25	0	0	0	25
Semester : 2									
Generic Core Courses									
T4949	0401220201	Basic Microbiology & Parasitology		4	40	40	0	20	100
T4950	0401220202	Pathology		4	40	40	0	20	100
T4566	0401220203	Anatomy II		3	30	0	0	45	75
T4436	0401220204	Physiology II		3	30	0	0	45	75
TH4093	0401220205	Hospital Practices & Patient Care II		2	20	0	0	30	50
T4435	0401220206	Communication Skills for Allied Health Professionals - Advanced		1	25	0	0	0	25
T4499	0401220207	Medical Physics		1	25	0	0	0	25
Total				18	210	80	0	160	450
Generic Elective Courses Group									
T4502	0401220208	Computer Language		1	25	0	0	0	25
T4439	0401220209	Nutrition & Dietetics		1	25	0	0	0	25
T4440	0401220210	Applied Mathematics		1	25	0	0	0	25
Total Required Credits				1	25	0	0	0	25
Semester : 3									



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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Cre-dits	Internal Marks	External Mark	Internal Practical Marks	External Practica I Marks	Total Marks
Generic Core Courses									
T2208	0401220301	Research Methodology		4	40	40	0	20	100
T2560	0401220302	Principles and Practices of Management		2	20	30	0	0	50
T4375	0401220303	Principles of Radiation Oncology		2	20	30	0	0	50
T4376	0401220304	Radiobiology		2	20	30	0	0	50
T4938	0401220305	Introduction to Medical Imaging		2	20	0	0	30	50
TH4013	0401220306	Radiation protection and safety		2	20	30	0	0	50
TH4014	0401220307	Principles of Practical Radiotherapy		2	20	0	0	30	50
TH4058	0401220308	Applied Clinical Sciences (Radiotherapy)		2	20	30	0	0	50
T4441	0401220309	Personality Development for Allied Health Professionals - I		1	25	0	0	0	25
T4951	0401220310	Basic Patient Assessment		1	25	0	0	0	25
T2883	0401220311	Core Environmental Studies *		0	0	0	0	0	Non Letter Grade
TH4095	0401220312	Fitness for Life *		0	0	0	0	0	Non Letter Grade
Total				20	230	190	0	80	500
Semester : 4									
Generic Core Courses									
T8000	0401220401	Service Learning		4	100	0	0	0	100
TH4094	0401220402	Practical Brachytherapy and Teletherapy		3	30	0	0	45	75
T4380	0401220403	Principles of Brachytherapy & Teletherapy		2	20	30	0	0	50
TH4015	0401220404	Patient Set-up in Radiotherapy Treatment		2	20	0	0	30	50
T4771	0401220405	Fitness and Lifestyle Management		2	50	0	0	0	50
T4447	0401220406	Personality Development for Allied Health Professionals - II		1	25	0	0	0	25
T4775	0401220407	Self Defence		1	25	0	0	0	25
T4777	0401220408	Yoga		1	25	0	0	0	25
T4005	0401220409	Integrated Disaster Management *		0	0	0	0	0	Non Letter Grade



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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
Total				16	295	30	0	75	400
Generic Elective Courses Group									
T6507	0401220410	Introduction to Social Justice		2	50	0	0	0	50
T6477	0401220411	Theater		2	50	0	0	0	50
T6284	0401220412	Contemporary India and The World		2	50	0	0	0	50
T6604	0401220413	Political Science		2	50	0	0	0	50
SWM01	0401220414	Swayam Course		2	50	0	0	0	50
T6476	0401220415	World Music		1	25	0	0	0	25
T6475	0401220416	Creative Writing		1	25	0	0	0	25
T6491	0401220417	Cyber Law		1	25	0	0	0	25
T6487	0401220418	Film Appreciation		1	25	0	0	0	25
Total Required Credits				4	100	0	0	0	100
Semester : 5									
Generic Core Courses									
T4906	0401220501	Summer Internship Programme		7	70	0	0	105	175
T4383	0401220502	Clinical Oncology- I		4	40	40	0	20	100
TH4016	0401220503	Radiotherapy Dosimetry-I		4	40	40	0	20	100
T4451	0401220504	Basic Life Support		2	25	0	0	25	50
T4939	0401220505	Applied Management in Radiotherapy Unit		2	20	0	0	30	50
T4567	0401220506	Soft Skills for Allied Health Professionals - I		1	25	0	0	0	25
Total				20	220	80	0	200	500
Semester : 6									
Generic Core Courses									
T4806	0401220601	Project		6	60	0	0	90	150
T4996	0401220602	Advanced Cardiac Life Support (ACLS)		4	40	40	0	20	100
TH4018	0401220603	Radiotherapy Machines, Instrumentation and Quality Assurance		4	40	40	0	20	100
TH4017	0401220604	Radiotherapy Dosimetry-II		3	40	0	0	35	75
T4387	0401220605	Clinical Oncology- II		2	30	0	0	20	50
T4568	0401220606	Soft Skills for Allied Health Professionals - II		1	25	0	0	0	25
Total				20	235	80	0	185	500



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Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	3	18	21	525
Semester 2	3	16	19	475
Semester 3	2	18	20	500
Semester 4	13	7	20	500
Semester 5	1	19	20	500
Semester 6	1	19	20	500
Total	23	97	120	3000