

Regulation of Para Medical Bachelor Degree Course (4Year 6 Months)

The regulations & Syllabus are subject to modifications by the standing Board of studies for Paramedical courses time to time.

Regulations:-

1. Duration of course-

The period of certified study & Practical training will be - **4 years + 6 months, Compulsory Rotational Internship**-after passing 4th year.

(Vide Health Department, Govt. of Bihar, Memo no.- 1/ विविध-63/2014-1077 (1)/स्वा0, पटना, dated-08/09/2017)

2. Medium of instruction-

Medium of teaching instruction & examination shall be in English.

3. Eligibility for admission -

(a) for First Year

- (i) A candidate seeking admission to the Bachelor degree course in Paramedical technology should have passed in 10+2 or equivalent exam (Bihar Intermediate council, CBSE, ICSE or other Boards) with Physics, chemistry, Biology and English as Principal Subjects of study.
- (ii) The candidate who is going to appear in the final examination of 10+2 or intermediate or equivalent will also be eligible for such courses.

(b) for Lateral Entry (Second Year)

- (i) For Lateral entry to second year in Bachelor degree course in Paramedical technology, candidates should have passed two years Diploma in respective faculty from a Govt. recognized Paramedical Institute or Board.

Note:- (1) Candidates selected through qualifying exam, conducted by BCECE Board authorized body of Govt. of Bihar, will be admitted in the respective courses.

(2) First Year course syllabus is same for all the four stream i:e; (Bachelor of Medical Laboratory Technology, Bachelor of Operation Theatre Technology, Bachelor of Radio-Imaging Technology, Bachelor of Ophthalmic Technology).

4. Attendance -

- (a) Every candidate should have attendance at least 75% of total number of classes conducted in an academic year from date of commencement of the term to the last working day for that year in theory & practical separately. Only such candidates are eligible to appear in University examination
- (b) A student who does not fulfill the minimum required attendance in an academic year **may** complete the required attendance through extra classes, if decided by the Committee of the Institution headed by Director/Principal, provided, if the time allows.
- (c) **Condonation** of shortage in aggregate attendance up to 10% (between 65% and 75%) in the year may be granted by the Institute's academic committee under special circumstances (candidates having good academic and behavioral record).

Relaxation will be given in special circumstances on medical ground also for 10% extra.

Note:- Maximum condonation shall not exceed more than 15% in totality.

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5. Internal Assessment-(IA)

(a) Internal assessment will be done in each subject and the marks will be awarded to the candidate as detailed in the **Scheme of examination**. There should be a minimum interval of four months between two periodical tests (theory & practical) in one academic year.

The marks of Internal Assessment shall be communicated to the University within the time schedule, given by the University.

(a) **Internal Assessment Marks-**

- **Best of two periodical tests will be communicated to University.**

(d) Internal Assessment question pattern will be same as of University exam.

6. Subjects and hours of teaching for theory and practical.

(a) Subjects and Number of Hours of Teaching, Theory and Practical in 1st year 2nd year 3rd year and 4th year are shown in **TABLE-1, TABLE-2, TABLE-3 & TABLE-4** for respective particular Bachelor Courses.

(b) Main & Subsidiary subjects of 1st Academic Year are same for all the Paramedical Bachelor Degree Courses.

(c) 2nd, 3rd & 4th year :-

(i) the Main subjects will be different for each Courses.

(ii) Clinical posting and Practical will be held in the respective Departments/Institution as per **TABLE-1, TABLE-2, TABLE-3 & TABLE-4** of the courses.

7. Schedule of Examination-

(a) **All the University examinations** will be performed by **Aryabhata Knowledge University (AKU), Patna.**

(b) **Degrees** to the passed out candidates after their completion of mandatory Internship will be awarded by **Aryabhata Knowledge University (AKU), Patna.**

(C) **University examination-** shall be conducted for 1st year; 2nd year; 3rd year & 4th year (Both main and subsidiary subjects)

1st year -Syllabus is common for all Courses.

No University Practical examination of Main Subjects in 1st Year but the

University Practical Examination of Computer will be held.

2nd; 3rd & 4th year - University exam (Both Theory & Practical as per the Table 5 to 8)

(c) **Supplementary/Compartmental Examination:-**shall be conducted within Eight (8) weeks after the publication of results of every University Examination. Scheme of examination will be same as that of regular exam.

(d) **Distribution of marks--** Internal Assessment and University examination Marks of Main and Subsidiary subjects for theory and practical, both, are shown in **TABLE -5, TABLE -6, TABLE -7 & TABLE -8** of the respective stream, for each year.

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8. Passing criteria:-

- (A) Maximum tenure for Passing the Course- is 7 (Seven) Academic Sessions, whereas, it will be 6 (Six) Academic Session for Lateral Entry students. The students have to pass all the University Examinations within the stipulated Academic Sessions from the date of their admission, failing which their Admission and Registration will be **Cancelled** by University.
- (B) Main subjects (For All Academic Year) -
A candidate is declared Passed in the University Exam, if he / she secure 50% of marks in Theory & Practical separately.
Marks obtained in Internal Assessment will be added to the theory paper marks of the respective subjects.
- (C) Subsidiary subjects (For All Academic Year) -
Minimum prescribed passing marks in subsidiary subjects should be 30% of marks in University & Internal Assessment added together.
- (D) Grace Marks (For All Academic Year)- A Maximum of 5 (Five) marks in total will be added to total obtained marks as grace marks to promote a candidate, if he fails in maximum of **3 (Three)** Main Subjects in that particular Academic Year Examination which may be revised by the University.
- (E) 1st Year Marks of Lateral Entry students i:e; (Direct admission in 2nd year)-- will be the **Average** of the marks obtained in the 1st & 2nd year Diploma Course.
- (F) Criteria for Promotion and Passing the University Examination:-
- (a) The candidates who fails in Maximum of 3 (Three) Main subjects in 1st year University Exams may be promoted to 2nd year as well as may be eligible for the University exam.
- (b) For Promotion to **3rd Year**, the following criteria should be fulfilled:-
(i) It is mandatory to pass in every subjects of 1st year.
(ii) The candidates who fails in maximum of 3 (Three) main subjects in 2nd year University exams may be promoted to 3rd year; if clause no.-(i) is also fulfilled.
They may be eligible for the University exam also.
- (c) For Promotion to **4th Year**, the following criteria should be fulfilled:-
(i) The students must have passed in every subjects of 2nd year.
(iii) The candidates who fails in maximum of 3 (Three) main subjects in 3rd year University exams may be promoted to 4th year as well as may be eligible for the University exam.; if clause no.-(i) is also fulfilled.
- (d) The students will be **declared Passed Out**, only after passing all the University Examinations of their complete session within the **stipulated period of academic sessions, as mentioned earlier in clause 8-(A).**

9. Division of class: -

Distinction - 75% (Seventy Five) or above in main subjects.

1st division - 60% (Sixty) or above in main subjects.

Passing marks- 50% (Fifty) or above in main subjects.

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10. Duration and Criteria for Internship:-

- (i) **The Duration of Compulsory Rotational Internship is 6 (Six) Months in their respective faculties in a Govt. Hospitals.**
- (ii) **The passed out candidates, (as per clause-8(F)-d), will be eligible for 6 (Six) months Compulsory Rotational Internship in their respective faculties.**

11. Award of Degree:- The degree will be awarded to Passed Out Candidates after the **successful completion of the 6 (Six) months Compulsory Rotational Internship.**

12. Name of Para Medical Degrees (as per Health Department, Govt. of Bihar,
Memo no. - 1/पा० मे०-02/2010-817 (1)/स्वा०, पटना, Dated-24/07/2017)--

- (i) **BACHELOR OF MEDICAL LABORATORY TECHNOLOGY**
- (ii) **BACHELOR OF OPERATION THEATRE TECHNOLOGY**
- (iii) **BACHELOR OF OPHTHALMIC TECHNOLOGY**
- (iv) **BACHELOR OF RADIO-IMAGING TECHNOLOGY**

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15. Type of Questions and Distribution of marks for various subject

Table -A

Main subject having maximum marks =70

Sl. No.	Theory Type of Question	No. of Question	Marks
1	Long type	2 (2 of 3)	2x11 = 22
2	Short type	4 (4 of 6)	4x7 = 28
3	MCQ or one/two line type	10 (10 of 12)	10x2 = 20

Total - 70

Table -B

Main subject + Subsidiary subject having maximum marks =35

Sl. No.	Theory Type of Question	No. of Question	Marks
1	Long type	1 (1 of 2)	1x11 = 11
2	Short type	2 (2 of 3)	2x7 = 14
3	MCQ or one/two line type	5 (5 of 6)	5x2 = 10

Total - 35

Table-C

1	Practical		Total Marks - 50
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Table -D

Communicative skills (English subject) having maximum marks =35

Sl. No.	Theory Type of Question	No. of Question	Marks
1	Essay type	1 (1 of 2)	1x10 = 10
2	Comprehension ability	1	1x5 = 5
3	Pressy writing	1	1x5 = 5
4	Grammar, Common error, Fill in the blanks, Synonyms or antonyms	15	1 x 15 = 15

Total -- 35

Table -E

Public Health / Computer subject having maximum marks =35

Sl. No.	Theory Type of Question	No. of Question	Marks
1	Short type	5 (5 of 6)	2x5 = 10
2	MCQ or One/Two Line	10 (10 of 12)	1x10 = 10
3	Practical		15

Total - 35

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TABLE-1

SUBJECT

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

1ST YEAR TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
(1)ANATOMY	70	20	10	100
(2)PHYSIOLOGY	70	20	10	100
(3)PATHOLOGY	70	20	10	100
(4)				
(a) MICRO-BIOLOGY	35	10	5	
(b)BIO-CHEMISTRY	35	10	5	100
TOTAL	280	80	40	400
<u>SUBSIDIARY SUBJECT</u>				
(5)COMMUNICATION SKILLS (ENGLISH)	40	-----	10	50
(6) COMPUTER SKILL	20	20	10	50
TOTAL	60	20	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.

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TABLE-2

SUBJECT

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

2ND YEAR- TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
(1) PATHOLOGY	70	20	10	100
(2) (a) MICRO- BIOLOGY	35	25	15	150
(b) ADVANCE PATHOLOGY	35	25	15	
(3) BIO-CHEMISTRY	70	50	30	150
TOTAL	210	120	70	400
<u>SUBSIDIARY SUBJECT</u>				
(4) COMPUTER	20	20	10	50
(5) PUBLIC HEALTH	20	20	10	50
TOTAL	40	40	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.

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TABLE-3
SUBJECT

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

3RD YEAR- TEACHING HOURS (TOTAL- 800HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL+ TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1) MEDICINE	70	0+30	NIL	100
(2) (a) MICRO-BIOLOGY	35	10+5	100	300
(b) BIO-CHEMISTRY	35	10+5	100	
(3) GENERAL PATHOLOGY	50	30+20	200	300
TOTAL	190	110	400	700
SUBSIDIARY SUBJECT				
(4) (a) PHARMACOLOGY	35	15	NIL	100
(b) Hospital Waste Management	35	15	NIL	

MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 800 Hrs.

CLINICAL POSTING

1. HISTOPATHOLOGY ----- ONE MONTH
2. CLINICAL PATHOLOGY ----- ONE MONTH
3. BIO-CHEMISTRY ----- ONE MONTH
4. MICRO-BIOLOGY ----- ONE MONTH
5. I.C.U. ----- ONE MONTH
6. BLOOD BANK ----- ONE MONTH

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TABLE-4
SUBJECT
BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

4TH YEAR- TEACHING HOURS (TOTAL-1100HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL+ TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1) CLINICAL PATHOLOGY + TOXICOLOGY	50	30+20	200	300
(2) (a) MICRO-BIOLOGY	25	15+10	100	300
(b) BIO-CHEMISTRY	25	15+10	100	
(3) LAB MANAGEMENT	50	30+20	200	300
TOTAL	150	150	600	900
<u>SUBSIDIARY SUBJECT</u>				
(4) PROJECT WORK IN BMLT	NO UNIVERSITY EXAM.		200 hrs. (in 1.5 month)	200

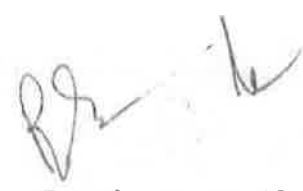
MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 1100 Hrs.

CLINICAL POSTING

1. HISTOPATHOLOGY ----- ONE MONTH
2. CLINICAL PATHOLOGY ----- ONE MONTH
3. BIO-CHEMISTRY ----- ONE MONTH
4. MICRO-BIOLOGY ----- ONE MONTH
5. I.C.U. ----- ONE MONTH
6. BLOOD BANK ----- ONE MONTH





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TABLE-5
SUBJECT

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

DISTRIBUTION OF MARKS FOR 1ST YEAR UNIVERSITY EXAM (TOTAL 500-MARKS)

MAIN SUBJECT	THEORY		IA MARKS	GRAND TOTAL MARKS
	Hrs.	Marks		
(1)ANATOMY	3 hrs	70	30	100
(2)PHYSIOLOGY	3 hrs.	70	30	100
(3)PATHOLOGY	3 hrs.	70	30	100
(4)(a) MICRO-BIOLOGY	1.5 hrs.	35	15	100
(b) BIO-CHEMISTRY	1.5 hrs.	35	15	
TOTAL		280	120	400

SUBSIDIARY SUBJECT	WRITTEN PAPER		IA TOTAL MARKS	PRACTICAL	TOTAL MARKS
	Hrs.	Marks			
(5)COMMUNICATION SKILLS (ENGLISH)	1.5 hrs.	35	15	No University Exam.	50
(6) COMPUTER SKILLS	1.5 hrs.	20	15	15	50
TOTAL		55	30	15	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT ----- TOTAL 500

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SUBJECT

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

DISTRIBUTION OF MARKS IN 2ND YEAR UNIVERSITY EXAM (TOTAL-500MARKS)

MAIN SUBJECT	THEORY		IA TOTAL MARKS	PRACTICAL PRAC+VIVA= TOTAL	GRAND TOTAL MARKS
	Hrs.	Marks			
(1) PATHOLOGY	3 hrs.	70	30	No University Exam.	100
(2) (a) MICRO-BIOLOGY	1.5 hrs	35	15	20 + 5 = 25	150
(b) ADVANCE PATHOLOGY	1.5 hrs	35	15	20 + 5 = 25	
(3) BIO-CHEMISTRY	3 hrs.	70	30	40 + 10 = 50	150
TOTAL		210	90	100	400

<u>SUBSIDIARY SUBJECT</u>	THEORY		IA TOTAL MARKS	PRACTICAL TOTAL	GRAND TOTAL MARKS
	Hrs.	Marks			
(4) COMPUTER	1.5 hrs	20	15	15	50
(5) PUBLIC HEALTH	1.5 hrs	20	15	15	50
TOTAL		40	30	30	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT

TOTAL 500

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TABLE-7

SUBJECT

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

DISTRIBUTION OF MARKS IN 3RD YEAR UNIVERSITY EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY	THEORY+ IA MARKS	PRACTICAL PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1) MEDICINE	3 hrs	70 + 30	No Univ. Exam	100
(2) (a) MICRO-BIOLOGY	1.5 hrs.	35 + 15	20 + 05 = 25	150
(b) BIO-CHEMISTRY	1.5 hrs.	35 + 15	20 + 05 = 25	
(2) GENERAL PATHOLOGY	3 hrs	70 + 30	40 + 10 = 50	150
TOTAL		90	100	400

SUBSIDIARY SUBJECT

(4)(a) PHARMACOLOGY	1.5 hrs.	35+15	No University Exam.	100
(b) Hospital Waste Management	1.5 hrs.	35 +15	No University Exam.	

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500

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TABLE-8
SUBJECT

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BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

DISTRIBUTION OF MARKS IN 4th YEAR UNIVERSITY EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY HRS.	THEORY+ IA MARKS	PRACTICAL PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1) CLINICAL PATHOLOGY+TOXICOLOGY	3 hrs	70 + 30	40 + 10 = 50	150
(2) (a) MICRO-BIOLOGY (b) BIO-CHEMISTRY	1.5 hrs.	35 + 15	20 + 05 = 25	150
	1.5 hrs.	35 + 15	20 + 05 = 25	
(3) LAB MANAGEMENT	3 hrs	70 + 30	40 + 10 = 50	150
TOTAL		300	150	450

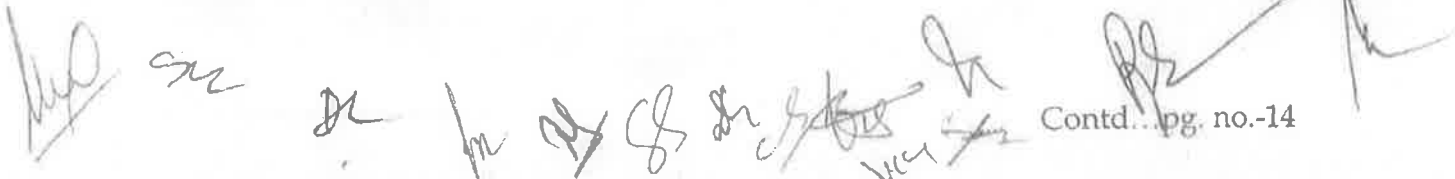
SUBSIDIARY SUBJECT (NO UNIVERSITY EXAM)

(4) PROJECT MARKS ON BMLT	NO UNIVERSITY EXAM.	50	50
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MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 500

INTERNSHIP - SIX MONTHS DURATION (AFTER COMPLETION OF THE COURSE)
 SAME DISTRIBUTION AS CLINICAL POSTING IN 3RD & 4TH YEAR

1. HISTOPATHOLOGY ----- ONE MONTH
2. CLINICAL PATHOLOGY ----- ONE MONTH
3. BIO-CHEMISTRY ----- ONE MONTH
4. MICRO-BIOLOGY ----- ONE MONTH
5. I.C.U. ----- ONE MONTH
6. BLOOD BANK ----- ONE MONTH



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TABLE-1

SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

1ST YEAR TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
(1)ANATOMY	70	20	10	100
(2)PHYSIOLOGY	70	20	10	100
(3)PATHOLOGY	70	20	10	100
(4)				
(a) MICRO-BIOLOGY	35	10	5	
(b)BIO-CHEMISTRY	35	10	5	100
TOTAL	280	80	40	400
<u>SUBSIDIARY SUBJECT</u>				
(5)COMMUNICATION SKILLS (ENGLISH)	40	-----	10	50
(6) COMPUTER SKILL	20	20	10	50
TOTAL	60	20	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.

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TABLE-2

SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

SUBJECT - 2ND YEAR- TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
(1) (a) APPLIED PATHOLOGY	35	35	5	150
(b) APPLIED MICROBIOLOGY	35	35	5	
(2) INTRODUCTION TO O.T. TECHNOLOGY	70	70	10	150
(3) (a) GENERAL PHARMACOLOGY	35	10	5	100
(b) MEDICINE RELEVANT TO O.T. TECHNOLOGY	35	10	5	
TOTAL	210	160	30	400
<u>SUBSIDIARY SUBJECT</u>				
(4) COMPUTER	20	20	10	50
(5) PUBLIC HEALTH	20	20	10	50
TOTAL	40	40	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.

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TABLE-3
SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

SUBJECT - 3RD YEAR- TEACHING HOURS (TOTAL- 800HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL / TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1)MEDICINE	70	0 + 30	NIL	100
(2)OPERATION THEATRE- TECHNOLOGY CLINICAL	50	30+20	200	300
(3)OPERATION THEATRE TECHNOLOGY APPLIED	50	30+20	200	300
TOTAL	170	130	400	700
SUBSIDIARY SUBJECT				
(1) (a)C.S.S.D (b)HOSPITAL WASTE MANEGEMENT	35	15	NIL	50
	35	15	NIL	50

MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 800 Hrs.

CLINICAL POSTING

- 1.GENERAL SURGERY -----TWO MONTH
- 2.OBS & GY NAE ----- ONE MONTH
- 3.NEURO SURGERY ----- ONE MONTH
- 4.ORTHO SURGERY ----- ONE MONTH
- 5. ANAESTHESIA, CRITICAL CARE & ICU ----- ONE MONTH

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TABLE-4

SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

SUBJECT - 4TH YEAR- TEACHING HOURS (TOTAL- 1100 HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL +TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1) O.T TECHNOLOGY ADVANCE ANEASTHESIOLOGY	50	30+20	200	300
(2) O.T TECHNOLOGY ADVANCE SURGERY PART (I)	50	30+20	200	300
(3) O.T TECHNOLOGY ADVANCE SURGERY PART (II)	50	30+20	200	300
TOTAL	150	150	600	900
SUBSIDIARY SUBJECT				
(4) PROJECT WORK ON O.T.TECHNOLOGY	Nil	Nil	200 (1.5 MONTH)	200

MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 1100 Hrs.

CLINICAL POSTING

- 1.GENERAL SURGERY -----TWO MONTH
- 2.OBS & GY NAE ----- ONE MONTH
- 3.NEURO SURGERY ----- ONE MONTH
- 4.ORTHO SURGERY ----- ONE MONTH
5. ANAESTHESIA, CRITICAL CARE & ICU ----- ONE MONTH



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TABLE-5
SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

DISTRIBUTION OF MARKS FOR 1ST YEAR UNIVERSITY EXAM (TOTAL 500-MARKS)

MAIN SUBJECT	THEORY		IA MARKS	GRAND TOTAL MARKS
	Hrs.	Marks		
(1)ANATOMY	3 hrs	70	30	100
(2)PHYSIOLOGY	3 hrs.	70	30	100
(3)PATHOLOGY	3 hrs.	70	30	100
(4)(a) MICRO-BIOLOGY	1.5 hrs.	35	15	100
(b) BIO-CHEMISTRY	1.5 hrs.	35	15	
TOTAL		280	120	400

SUBSIDIARY SUBJECT	WRITTEN PAPER		IA TOTAL MARKS	PRACTICAL	TOTAL MARKS
	Hrs.	Marks			
(5)COMMUNICATION SKILLS (ENGLISH)	1.5 hrs.	35	15	No University Exam.	50
(6) COMPUTER SKILLS	1.5 hrs.	20	15	15	50
TOTAL		55	30	15	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----TOTAL 500

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TABLE-6

SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

DISTRIBUTION OF MARKS IN 2ND YEAR UNIVERSITY EXAM &

INTERNAL ASSESSMENT EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY		IA TOTAL MARKS	PRACTICAL PRAC+VIVA= TOTAL	GRAND TOTAL MARKS
	HRS.	MARKS			
1.(a)APPLIED PATHOLOGY	3 hrs.	35	15	20 + 5 = 25	150
(b)APPLIED MICROBIOLOGY		35	15	20 + 5 = 25	
2. INTRODUCTION TO OT. TECHNOLOGY	3 hrs.	70	30	40 + 10 = 50	150
3. (a) GENERAL PHARMACOLOGY	1.5 hrs.	35	15	No University Exam.	100
(b) MEDICINES RELATED TO OT TECHNOLOGY	1.5 hrs.	35	15		
TOTAL		210	90	100	400

<u>SUBSIDIARY SUBJECT</u>	THEORY		IA TOTAL MARKS	PRACTICAL TOTAL	GRAND TOTAL MARKS
	HRS.	MARKS			
(4).COMPUTER	1.5 hrs	20	10 + 05 = 15	15	50
(5).PUBLIC HEALTH	1.5 hrs	20	10 + 05 = 15	15	50
TOTAL		40	30	30	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500

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TABLE-7

SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

DISTRIBUTION OF MARKS IN 3RD YEAR UNIVERSITY EXAM &

INTERNAL ASSESSMENT EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY HRS. MARKS	THEORY+ IA MARKS	PRACTICAL PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1)MEDICINE	3 hrs.	70 + 30	No University Exam.	100
(2)OPERATION THEATRE TECHNOLOGY - CLINICAL	3 hrs	70 + 30	40 + 10 = 50	150
(3) OPERATION THEATRE TECHNOLOGY - APPLIED	3 hrs.	70 + 30	40 + 10 = 50	150
TOTAL		300	100	400

SUBSIDIARY SUBJECT

(4) C.S.S.D	1.5 hrs.	35+15	No University Exam.	100
(5) HOSPITAL WASTE MANAGEMENT	1.5 hrs.	35+15	No University Exam.	

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500

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TABLE-8

SUBJECT

BACHELOR OF OPERATION THEATRE TECHNOLOGY

DISTRIBUTION OF MARKS IN 4TH YEAR UNIVERSITY EXAM &

INTERNAL ASSESSMENT EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY HRS.	THEORY+ IA MARKS	PRACTICAL PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1) O.T TECHNOLOGY ADVANCE ANEASTHESIOLOGY	3 hrs.	70 + 30	40 + 10 = 50	150
(2) O.T. TECHNOLOGY -- ADVANCE SURGERY PART(I)	3 hrs	70 + 30	40 + 10 = 50	150
(3) O.T. TECHNOLOGY-- ADVANCE SURGERY PART (II)	3 hrs.	70 + 30	40 + 10 = 50	150
TOTAL		300	150	450

SUBSIDIARY SUBJECT (NO UNIVERSITY EXAM)

(3) PROJECT WORK ON O.T TECHNOLOGY	NO UNIVERSITY EXAM.	50	50
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MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 500

INTERNSHIP - SIX MONTHS DURATION (AFTER COMPLETION OF THE COURSE)
SAME DISTRIBUTION AS CLINICAL POSTING IN 3RD & 4TH YEAR

- 1. GENERAL SURGERY ----- TWO MONTH
- 2. OBS & GYNAE ----- ONE MONTH
- 3. NEURO SURGERY ----- ONE MONTH
- 4. ORTHO SURGERY ----- ONE MONTH
- 5. ANAESTHESIA, CRITICAL CARE & ICU ----- ONE MONTH

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112
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TABLE-1

SUBJECT

BACHELOR OF OPHTHELMIC TECHNOLOGY

1ST YEAR TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
(1)ANATOMY	70	20	10	100
(2)PHYSIOLOGY	70	20	10	100
(3)PATHOLOGY	70	20	10	100
(4)				
(a) MICRO-BIOLOGY	35	10	5	
(b)BIO-CHEMISTRY	35	10	5	100
TOTAL	280	80	40	400
<u>SUBSIDIARY SUBJECT</u>				
(5)COMMUNICATION SKILLS (ENGLISH)	40	-----	10	50
(6) COMPUTER SKILL	20	20	10	50
TOTAL	60	20	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.

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TABLE-2

SUBJECT

BACHELOR OF OPHTHELMIC TCHNOLOGY

SUBJECT - 2ND YEAR- TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
(1)OCCULAR PHARMACY & PHARMACOLOGY	70	20	10	100
(2). A- (a) OPTIC (b) REFRACTION B-OPHTHALMIC INSTRUMENTS & APPLIANCES	35 35	25 25	15 15	150
(3)INVESTIGATIVE OPHTHALMOLOGY & ORTHOPTIC	70	50	30	150
TOTAL	210	120	70	400
<u>SUBSIDIARY SUBJECT</u>				
(4)COMPUTER	20	20	10	50
(5)PUBLIC HEALTH	20	20	10	50
TOTAL	40	40	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.



148
126

TABLE-3

SUBJECT

BACHELOR OF OPHTHELMIC TCHNOLOGY

3RD YEAR- TEACHING HOURS (TOTAL- 800HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL+ TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1)OCCULAR MANIFESTATION OF SYSTEMIC DISEASES	70	0 + 30	Nil	100
(2)CONTACT LENS AND OCULAR INJURIES & EMERGENCY	50	30 + 20	200	300
(3)COMMUNITY OPHTHALMOLOGY , EYE BANK & LOW VISION AIDS	50	30 + 20	200	300
TOTAL	170	130	400	700
<u>SUBSIDIARY SUBJECT</u>				
(1) (a)C.S.S.D.	35	15	NIL	100
(b)HOSPITAL WASTE MANEGEMENT	35	15	NIL	

MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 800 Hrs.

CLINICAL POSTING

1. REFRACTION ----- TWO MONTHS
2. GENERAL EYE O.T. ----- ONE MONTH
3. RETINAL CLINIC -----ONE MONTH
4. GLUCOMA + OCCULAR PHYSIOTHERAPHY -----ONE MONTH
5. COMMUNITY OPHTHLAMOLOGY ----- ONE MONTH

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TABLE-4

SUBJECT

BACHELOR OF OPHTHELMIC TCHNOLOGY

4TH YEAR- TEACHING HOURS (TOTAL- 1100 HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL +TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1)OCULAR DISEASES (I) AND MANAGEMENT	50	30+20	200	300
(2)OCULAR DISEASES (II) AND MANAGEMENT & ADVANCE OCULAR APPLIANCES	50	30+20	200	300
(3)O. T. MANAGEMENT	50	30+20	200	300
TOTAL	150	150	600	900
SUBSIDIARY SUBJECT				
(4) PROJECT WORK IN OPHTHELMIC TECHNOLOGY	Nil	Nil	200 (1.5 MONTH)	200

MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 1100 Hrs.

CLINICAL POSTING

1. EYE OPD & INDOOR ----- ONE MONTH
2. REFRACTION ----- ONE MONTHS
3. GENERAL EYE O.T. ----- ONE MONTH
4. RETINAL CLINIC -----ONE MONTH
5. GLUCOMA + OCCULAR PHYSIOTHERAPY -----ONE MONTH
6. COMMUNITY OPHTLAMOMOLOGY ----- ONE MONTH

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404
134

TABLE-5
SUBJECT

BACHELOR OF OPHTHALMIC TECHNOLOGY

DISTRIBUTION OF MARKS FOR 1ST YEAR UNIVERSITY EXAM (TOTAL 500-MARKS)

MAIN SUBJECT	THEORY		IA MARKS	GRAND TOTAL MARKS
	Hrs.	Marks		
(1)ANATOMY	3 hrs	70	30	100
(2)PHYSIOLOGY	3 hrs.	70	30	100
(3)PATHOLOGY	3 hrs.	70	30	100
(4)(a) MICRO-BIOLOGY	1.5 hrs.	35	15	100
(b) BIO-CHEMISTRY	1.5 hrs.	35	15	
TOTAL		280	120	400

SUBSIDIARY SUBJECT	WRITTEN PAPER		IA TOTAL MARKS	PRACTICAL	TOTAL MARKS
	Hrs.	Marks			
(5)COMMUNICATION SKILLS (ENGLISH)	1.5 hrs.	35	15	No University Exam.	50
(6) COMPUTER SKILLS	1.5 hrs.	20	15	15	50
TOTAL		55	30	15	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----TOTAL 500

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137
132

TABLE-7

SUBJECT

BACHELOR OF OPHTHALMIC TECHNOLOGY

DISTRIBUTION OF MARKS IN 3RD YEAR UNIVERSITY EXAM &

INTERNAL ASSESSMENT EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY HRS. MARKS	THEORY+ IA MARKS	PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1)OCCULAR MANIFESTATION OF SYSTEMIC DISEASES	3 hrs.	70 + 30	No University Exam.	100
(2)CONTACT LENS AND OCULAR INJURIES & EMERGENCY	3 hrs	70 + 30	50	150
(3)COMMUNITY OPHTHALMOLOGY , EYE BANK & LOW VISION AIDS	3 hrs.	70 + 30	50	150
TOTAL		210 + 90	100	400

SUBSIDIARY SUBJECT

(4)(a)C.S.S.D	1.5 hrs.	35+15	No University Exam.	100
(b) HOSPITAL WASTE MANAGEMENT	1.5 hrs.	35+15	No University Exam.	

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500

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TABLE-8

SUBJECT

BACHELOR OF OPHTHALMIC TECHNOLOGY

DISTRIBUTION OF MARKS IN 4TH YEAR UNIVERSITY EXAM &

INTERNAL ASSESSMENT EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY HRS. MARKS	THEORY+ IA MARKS	PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1)OCULAR DISEASES (I) AND MANAGEMENT	3 hrs.	70 + 30	40 + 10 = 50	150
(2)OCULAR DISEASES (II) AND MANAGEMENT & ADVANCE OCULAR APPLIANCES	3 hrs	70 + 30	40 + 10 = 50	150
(3)O. T. MANAGEMENT	3 hrs.	70 + 30	40 + 10 = 50	150
TOTAL		210 + 90	150	450

SUBSIDIARY (NO UNIVERSITY EXAM)

(4) PROJECT WORK ON OPHTHALMIC TECHNOLOGY	NO UNIVERSITY EXAM.	50	50
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MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 500

INTERNSHIP - SIX MONTHS DURATION (AFTER COMPLITION OF THE COURSE) SAME DISTRIBUTION AS CLINICAL POSTING IN 3RD & 4TH YEAR

1. EYE OPD & INDOOR ----- ONE MONTH
2. REFRACTION ----- ONE MONTH
3. GENERAL EYE O.T. ----- ONE MONTH
4. RETINAL CLINIC ----- ONE MONTH
5. GLUCOMA + OCCULAR PHYSIOTHERAPY ----- ONE MONTH
6. COMMUNITY OPHTHALMOLOGY ----- ONE MONTH

484
130

TABLE-1
SUBJECT
BACHELOR OF RADIO-IMAGING TECHNOLOGY

1ST YEAR TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
(1)ANATOMY	70	20	10	100
(2)PHYSIOLOGY	70	20	10	100
(3)PATHOLOGY	70	20	10	100
(4)				
(a) MICRO-BIOLOGY	35	10	5	
(b)BIO-CHEMISTRY	35	10	5	100
TOTAL	280	80	40	400
SUBSIDIARY SUBJECT				
(5)COMMUNICATION SKILLS (ENGLISH)	40	-----	10	50
(6) COMPUTER SKILL	20	20	10	50
TOTAL	60	20	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.

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1129
103

TABLE-2

SUBJECT

BACHELOR OF RADIO-IMAGING TECHNOLOGY

SUBJECT - 2ND YEAR- TEACHING HOURS (TOTAL- 500HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL (hrs)	TUTORIAL (hrs)	TOTAL (hrs)
1. Physics of Radiology & Electronic, Radiation Physics	70	50	30	150
2. Radiological Instrumentation	70	50	30	150
3. Radiation Biology & Radiation Protection	70	20	10	100
TOTAL	210	120	70	400
<u>SUBSIDIARY SUBJECT</u>				
(4)COMPUTER	20	20	10	50
(5)PUBLIC HEALTH	20	20	10	50
TOTAL	40	40	20	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500 Hrs.

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126
102

TABLE-3

SUBJECT

BACHELOR OF RADIO-- IMAGING TECHNOLOGY

3RD YEAR- TEACHING HOURS (TOTAL- 800HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL+ TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1) MEDICINE	70	0 + 30	NIL	100
(2) DARK ROOM TECHNIQUE	50	30 + 20	200	300
(3) RADIOGRAPHY TECHNIQUES & EMERGENCY RADIOLOGY	50	30 + 20	200	300
TOTAL	170	130	400	700
<u>SUBSIDIARY SUBJECT</u>				
(4)(a) PHARMACOLOGY	35	15	NIL	100
(b) HOSPITAL WASTE MANEAGEMENT	35	15	NIL	

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 800 Hrs.

CLINICAL POSTING

1. X-RAY DEPARTMENT & OPD -----TWO MONTHS
2. C.T SCAN DEPARTMENT. ----- ONE MONTH
3. ULTRA SOUND ----- ONE MONTH
4. M.R.I----- ONE MONTH
5. MAMOGRAPHY & RADIOTHERAPY -----ONE MONTH

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1127
4-04

TABLE-4

SUBJECT

BACHELOR OF RADIO-- IMAGING TECHNOLOGY

SUBJECT - 4TH YEAR- TEACHING HOURS (TOTAL- 1100 HRS)

MAIN SUBJECTS	THEORY (hrs)	PRACTICAL +TUTORIAL (hrs)	CLINICAL POSTING (hrs)	TOTAL (hrs)
(1)ADVANCE RADIO DIAGNOSIS	50	30+20	200	300
(2)SPECIAL PROCEDURE RADIOLOGY	50	30+20	200	300
(3)NUCLEAR MEDICINE & INTRODUCTION TO RADIO THERAPY	50	30+20	200	300
TOTAL	150	150	600	900
SUBSIDIARY SUBJECT				
(4) PROJECT WORK IN RADIO-IMAGING TECHNOLOGY	NIL	NIL	200 (1.5 MONTH)	200

MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 1100 Hrs.

CLINICAL POSTING

1. X-RAY DEPARTMENT & OPD -----TWO MONTHS
2. C.T SCAN DEPARTMENT. ----- ONE MONTH
3. ULTRA SOUND ----- ONE MONTH
4. M.R.I----- ONE MONTH
5. MAMOGRAPHY &RADIOTHERAPY -----ONE MONTH

[Handwritten signatures and marks]

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TABLE-5
SUBJECT
BACHELOR OF RADIO-IMAGING TECHNOLOGY

DISTRIBUTION OF MARKS FOR 1ST YEAR UNIVERSITY EXAM (TOTAL 500-MARKS)

MAIN SUBJECT	THEORY		IA MARKS	GRAND TOTAL MARKS
	Hrs.	Marks		
(1)ANATOMY	3 hrs	70	30	100
(2)PHYSIOLOGY	3 hrs.	70	30	100
(3)PATHOLOGY	3 hrs.	70	30	100
(4)(a) MICRO-BIOLOGY	1.5 hrs.	35	15	100
(b) BIO-CHEMISTRY	1.5 hrs.	35	15	
TOTAL		280	120	400

SUBSIDIARY SUBJECT	WRITTEN PAPER		IA TOTAL MARKS	PRACTICAL	TOTAL MARKS
	Hrs.	Marks			
(5)COMMUNICATION SKILLS (ENGLISH)	1.5 hrs.	35	15	No University Exam.	50
(6) COMPUTER SKILLS	1.5 hrs.	20	15	15	50
TOTAL		55	30	15	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT ----- TOTAL 500

TABLE-6

SUBJECT

BACHELOR OF RADIO-- IMAGING TECHNOLOGY

DISTRIBUTION OF MARKS IN 2ND YEAR UNIVERSITY EXAM & INTERNAL EXAM
(TOTAL - 500 MARKS)

MAIN SUBJECT	THEORY		IA MARKS	PRACTICAL PRAC+VIVA =TOTAL	GRAND TOTAL MARKS
	HRS.	MARKS			
1.(A)- PHYSICS & ELECTRONICS OF RADIOLOGY	1.5 hrs	35	15	No University Exam.	100
1.(B)- RADIATION PHYSICS	1.5 hrs	35	15		
2. RADIOLOGICAL INSTRUMENTATION	3hrs.	70	30	40 + 10 = 50	150
3. RADIATION BIOLOGY & RADIATION PROTECTION	3hrs.	70	30	40 + 10 = 50	150
TOTAL	210		90	100	400

<u>SUBSIDIARY SUBJECT</u>	THEORY		IA TOTAL MARKS	PRACTICAL TOTAL	GRAND TOTAL MARKS
	HRS	MARKS			
(4).COMPUTER	1.5 hrs	20	10 + 05 = 15	15	50
(5).PUBLIC HEALTH	1.5 hrs	20	10 + 05 = 15	15	50
TOTAL	40		30	30	100

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500

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TABLE-7

SUBJECT

BACHELOR OF RADIO-- IMAGING TECHNOLOGY

DISTRIBUTION OF MARKS IN 3RD YEAR UNIVERSITY EXAM &
INTERNAL ASSESSMENT EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY HRS. MARKS	THEORY+ IA MARKS	PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1) MEDICINE	3 hrs.	70 + 30	No University Exam.	100
(2) DARK ROOM TECHNIQUE	3 hrs	70 + 30	40 + 10 = 50	150
(3) RADIOGRAPHY TECHNIQUES & EMERGENCY RADIOLOGY	3 hrs.	70 + 30	40 + 10 = 50	150
TOTAL		300	100	400

SUBSIDIARY SUBJECT

(4)(a) Pharmacology	1.5 hrs.	35+15	No University Exam.	100
(b) HOSPITAL WASTE MANAGEMENT	1.5 hrs.	35+15	No University Exam.	

MAIN SUBJECT+ SUBSIDIARY SUBJECT-----

TOTAL 500

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TABLE-8
SUBJECT

BACHELOR OF RADIO-- IMAGING TECHNOLOGY

DISTRIBUTION OF MARKS IN 4TH YEAR UNIVERSITY EXAM &
INTERNAL ASSESSMENT EXAM (TOTAL-500 MARKS)

MAIN SUBJECT	THEORY HRS.	THEORY+ IA MARKS	PRAC+VIVA= TOTAL MARKS	GRAND TOTAL MARKS
(1) ADVANCE RADIO DIAGNOSIS	3 hrs.	70 + 30	40 + 10 = 50	150
(2) SPECIAL PROCEDURE RADIOLOGY	3 hrs	70 + 30	40 + 10 = 50	150
(3) NUCLEAR MEDICINE & INTRODUCTION TO RADIO THERAPY	3 hrs.	70 + 30	40 + 10 = 50	150
TOTAL		300	150	450

SUBSIDIARY SUBJECT (NO UNIVERSITY EXAM)

(4) PROJECT WORK RADIO-IMAGING TECHNOLOGY	NO UNIVERSITY EXAM.	50	50
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MAIN SUBJECT+ SUBSIDIARY SUBJECT----- TOTAL 500

INTERNSHIP - SIX MONTHS DURATION (AFTER COMPLETION OF THE COURSE) SAME DISTRIBUTION AS CLINICAL POSTING IN 3rd YEAR & 4th YEAR

1. X-RAY DEPARTMENT & OPD ----- TWO MONTHS
2. C.T SCAN DEPARTMENT. ----- ONE MONTH
3. ULTRA SOUND ----- ONE MONTH
4. M.R.I----- ONE MONTH
5. MAMOGRAPHY & RADIOTHERAPY ----- ONE MONTH

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