

राजस्थान राज-पत्र विशेषांक

साधिकार प्रकाशित

RAJASTHAN GAZETTE Extraordinary

Published by Authority

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> भाग 4 (ग) उप—खण्ड (I)

राज्य सरकार तथा अन्य राज्य-प्राधिकारियों द्वारा जारी किये गये (सामान्य आदेशों, उप-विधियों आदि को सम्मिलित करते हुए) सामान्य कानूनी नियम।

MEDICAL & HEALTH DEPARTMENT

NOTIFICATION

Jaipur, December 5, 2014

G.S.R. 44: In exercise of the powers conferred by subsection (1) and (2) of section 42 of the Rajasthan Para-medical Council Act, 2008 (Act No. 25 of 2008), the State Government hereby makes the following rules for the purpose of carrying out the provisions of the said Act, namely:-

Part l

Preliminary

Short title and commencement.- (1) These rules may be called the Rajasthan Para-medical Council Rules, 2014.
 They shall come into force with immediate effect.

2. Definitions.- (1) In these rules, unless the context otherwise requires,-

(a) "Act" means the Rajasthan Para-medical Council Act, 2008 (Act No. 25 of 2008);

(b) "Council" means the Rajasthan Para-medical Council established under section 3 of the Act;

(c) "Fees" means any fees determined and chargeable by the Rajasthan Para-medical Council;

(d) "Form" means Form appended to these rules;

(e) "Government" means the Government of Rajasthan;

(f) "Member" means member of the Rajasthan Paramedical Council established under the Act;

(g) "President" means President of the Rajasthan Paramedical Council;

(h) "Registrar" means the Registrar of the Rajasthan Paramedical Council appointed under section 15 of the Act;

- (i) "Register" means the Register of the Para-medical Professionals maintained by the Council under section
- Government for the purpose of an election under section 4 and 5 of the Act;
- (k) "Recognized Institution" means any institution permitted by Rajasthan Para-medical Council to run any Para-medical course;
 - (l) "Registered Para-medical Professional" means any person registered by Rajasthan Para-medical Council under section 17 or 32 of the Act;
 - (m) "Section" means a section of the Act; and
- (n) "Vice President" means Vice President of the Rajasthan Para-medical Council.
- (2) Words and expressions used but not defined in these rules but defined in the Act shall have the same meaning as assigned to them in the Act.

Part II

Election of Members

- 3. Appointment of Returning Officer.- For the purpose of the election to the office of President, Vice-President and Members, the State Government shall appoint any officer of the Rajasthan Administrative Service as a Returning Officer. The Returning Officer shall be appointed not later than sixty days before the completion of the term of existing President, Vice-President and Members.
- 4. Publication of Notification for election.— The Returning Officer shall publish in one State level Hindi newspaper and website of the Council or in such other manner, as he may think fit, a notification calling upon the registered Para-medical Professionals of the State to elect the requisite number of members to the Council under clause (i) or teachers of the recognized institutions under clause (iii) of section 4 and shall by such notification, fix a program/time schedule for the various stages according to which the election shall be held, specifying, in particular the following:-
 - (a) First date, time and place of receiving nomination papers.
 - (b) Last date, time and place of receiving nomination

withdrawn.

papers.

- (c) Date, time and place for scrutiny of nomination papers.
- (d) Last date and time for withdrawal of nomination.
- (e) Last date and time for receiving ballot papers in case of polling, i.e. if the number of candidates who have filed their nomination papers, exceeds the number of seats for which the election is to be held.
- (f) Date, time and place for counting of ballot papers.
- **5. Time of Publication of Notification.** Such notification shall be published at least fourteen days before the date fixed in the program, to be the first date for receiving nomination papers.
 - 6. Electoral Roll.- (1) The Electoral Roll shall consist of,-
 - (i) where the election is under clause (i) of section 4, the list of registered Para-medical Professionals in all its parts, as printed and published under section 27 of the Act corrected up to the date immediately preceding the day on which notification for election is published.
 - (ii) where the election is under clause (iii) of section 4, the list of teachers of the institutions recognized by the Rajasthan Para-medical Council. Every recognized Para-medical Institution shall intimate to the Registrar, Rajasthan Para-medical Council the names of the teachers and their contact information on roll of the institution at the beginning of the academic session every year within seven days of beginning of the academic session. The Registrar shall hand over consolidated list of all the lists, so received, to the Returning Officer on the day on which notification for election is published.
- (2) Copies of the Electoral Roll shall be made available to any person who desires to obtain copies on payment of a fee of rupees ten per page.
- (3) A person whose name is not borne on the Electoral Roll shall not be entitled to participate in the election.
- 7. Nomination Paper.- (1) Every nomination for election of member shall be made in Form-A. Every nomination paper shall be duly filled in and signed by the proposers and candidate.
- (2) Proposers shall be persons whose names are borne on the Electoral Roll.
- (3) A proposer may propose more than one candidate. A separate nomination paper should be used for each candidate proposed.

- (4) A Demand Draft of rupees 3000/- (rupees three thousand), in favour of Registrar, Rajasthan Para-medical Council, shall be enclosed with every nomination paper as security money. The security money shall be forfeited in favour of the Rajasthan Para-medical Council, if the contesting candidate gets less than 5% of the total votes casted.
- (5) Every candidate filing nomination shall be required to submit an affidavit to the effect that no criminal case is pending against him in any court of law. If any enquiry pending against him before any authority of the Government, than details of such pending enquiry shall also be stated in the like manner.
- (6) The Returning Officer shall issue a receipt of every nomination paper received by him stating time and date of receipt of such nomination paper.
- (7) Nomination form shall be issued by Returning Officer on payment of rupees one hundred and record of such nomination papers shall be kept serial wise.
- (8) A candidate can fill more than one set of nomination paper.
- 8. Scrutiny of Nomination papers.- (1) On the date and at the time as fixed for the scrutiny of nomination papers, by the notification issued under rule 4, the Returning Officer shall examine all the nomination papers and decide all objections which may be made to any nomination and may, either on such objection or on his own motion, after such enquiry, if any as he think necessary, and after giving the candidate a reasonable opportunity of being heard decide such objection. The decision of the Returning Officer accepting or rejecting a nomination paper shall be final.
- (2) Every candidate, for whom nomination paper has been received, himself or his one representative duly authorized by him in writing, shall be entitled to be present at the time of the scrutiny of nominations papers. The authorization letter shall bear the photo of the person so authorized.
- **9.** Withdrawal of Nomination.- (1) A Person who has been duly nominated at any time before the last date and time, so fixed, may withdraw his candidature in writing and thereupon he shall cease to be a candidate for the election.
- (2) If more than one set of nomination papers have been filed by a candidate, withdrawal of one set shall be considered withdrawal of candidature and all the nomination papers shall be treated withdrawn.

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- 10. Uncontested election.- On the last date fixed for withdrawal of nomination, if the number of duly nominated candidates is equal to or less than the number of seats for which the election is to be held, the Returning Officer shall declare such candidates as duly elected and if the number of duly nominated candidates is greater than the number of seats for which the election is being held, the Returning Officer shall proceed to obtain the votes in the manner laid down in rule 11.
- 11. Election and declaration of result.- (1) In the case of an election, where votes are to be taken, the Returning Officer shall prepare a final list of contesting candidates immediately after the last date fixed for withdrawal of nomination is over and affix it on the notice board of the office of the Rajasthan Para-medical Council. The names of the duly nominated contesting candidates shall also be published by the Returning Officer in the State level Hindi newspaper or in such other manner, as he thinks fit.

(2) The list referred in sub-rule (1) above shall be prepared in the alphabetical order of English Language.

- (3) The Returning Officer shall get ballot papers printed with serial number and names of the contesting candidates in the alphabetical order of English language. If there is more than one candidate of the same name, the father's name shall also be printed and their names shall be arranged in the alphabetical order of father's name.
- (4) A ballot paper in Form-B shall be issued to each person whose name is borne on the Electoral Roll referred to in rule 6, by registered post. An identification envelop addressed to the Returning Officer with the particulars specified in Form-C printed on its back shall also be sent along with every ballot paper.

(5) No duplicate copy of ballot paper or identification envelope shall be issued in any circumstances and no election shall be invalidated by reason of the non-receipt of a ballot paper by an elector, or identification envelope.

(6) On receipt of the ballot paper and identification envelope, the elector shall, if he desires to vote in the election, record his vote on the ballot paper in accordance with the instructions printed thereon and fill up the information printed on the back of the identification envelop and shall place the ballot paper in the identification envelope, close the identification envelope and either hand over it to the Returning Officer personally or send it by post. Ballot papers sent otherwise shall not be accepted.

- (7) Ballot papers received after the time and date mentioned in the notification referred to in rule 4 or after such other subsequent date as may be fixed by the Returning Officer shall be rejected. Votes recorded in any paper or form other than the ballot paper supplied, shall not be accepted.
- (8) Each elector has as many votes as the number of seats for which the election is held, and he shall record his vote by putting a cross-mark in ink against the name of each of the persons for whom he wants to vote in the column provided for it in the ballot paper (Form-B). If he records votes for more persons than the number of seats for which the election is held, his ballot paper shall be rejected. An elector may record his votes for a lesser number of candidates than the number of seats for which the election is held.
- (9) A ballot paper shall not be signed by the elector nor the elector shall write or mark anything on a ballot paper other than the crossmarks to indicate his votes. A ballot paper in which votes have been recorded in contravention of this sub-rule shall be rejected.
- (10) A ballot paper in which a mark is placed in such a manner as to make it doubtful to which candidate the vote is given, or in which the elector has placed any mark whereby he may afterwards identified, or in which an alteration or erasure occurs indicating a change of vote, shall be invalid and shall be rejected.
- (11) All particulars mentioned on the back of the identification envelope shall be filled in. Identification envelopes not so filled up shall not be opened and ballot paper shall not be taken out of it and shall be treated as rejected. The Returning Officer shall put a note on the identification envelop to this effect and sign.
- (12) The counting of votes shall take place, in the presence of the Returning Officer, on the date and at the time and place fixed in the notification issued under rule 4 or such other subsequent date as may be fixed in this regard by the Returning Officer.
- (13) The contesting candidate may be present in person or send a person authorized by him in writing, to watch the process of the counting of votes but he shall not be authorized to see an identification envelope after the ballot paper in it has been taken out.
- (14) After opening the identification envelop, if the ballot paper is not found in it, Returning Officer shall put a note to this effect on the identification envelop and sign.

(15) The Returning Officer shall decide any objection that may be raised at the time of the counting of votes regarding any identification envelope or ballot paper and endorse the word "rejected" and the ground of rejection on every ballot paper or identification envelope containing ballot paper declared invalid and rejected by him.

(16) The Returning Officer shall Count or cause to be counted the

valid votes given to each candidate. 10 observation of the receipt

(17) When the counting of votes has been completed, the Returning Officer shall declare the candidate or candidates having higher number of valid votes as duly elected.

(18) When two or more candidates get equal votes and the addition of one vote shall entitle any of these candidates to be declared elected, the determination of the person or persons to whom such an additional vote shall be deemed to have been given shall be made by lot to be drawn in the presence of the Returning Officer and in such manner as he may determine.

(19) The Returning Officer shall seal up in separate packets the counted and rejected ballot papers, rejected identification envelops due to non filling of complete information by the voter on the back side of the identification envelop and the rejected identification envelopes containing ballot papers, and record on each such packet description of its contents and the date of the election which it refers.

12. Certificate of election.- (1) After declaration of the result of the election, the Returning Officer shall-

(a) prepare and certify a return in Form D setting forth,-

- (i) the names of the person or persons declared duly elected;
- ynA (1) 13d (ii) total number of identification envelops received;
- (iii) total number of identification envelops not opened due to non filling up the particulars on the back side of it;
 - (iv) total number of identification envelops opened but ballot papers not found in it;
 - (v) total number of valid votes; and

(vi) total number of rejected votes.

(b) submit the result of election in Form-D to the Government for publication in the Official Gazette;

(c) as soon as may be possible, after a candidate has been declared elected, grant to such candidate a certificate of

election in Form-E and obtain from the candidate an acknowledgment of its receipt duly signed by him. It is essential that this acknowledgment is signed by the candidate himself and his signature is attested by the Returning Officer personally. The acknowledgment shall be in the form shown below:-

(d) cause the candidates so elected to take oath in the Form F and shall give the candidate a certificate to this effect; and

(e) forward all papers relating to the election to the Principal Secretary to the Government in the Medical and Health Department for custody. The Principal Secretary, Medical and Health to the Government shall ensure safe custody of the papers for twelve calendar months.

(2) While in the custody of the Principal Secretary to the Government in the Medical and Health Department packets of ballot papers or identification envelopes referred to in sub-rule (19) of rule 11, shall not be opened and their contents shall not be inspected or produced except under orders of the Government under section 7.

13. Completion of election process.— The whole election process shall be completed before the expiry of term of existing member.

14. Election for casual vacancies of member.- (1) Any vacancy occurring otherwise than by efflux of time shall be filled in by holding bye-election in accordance with the provisions of the foregoing rules contained in this part of these rules.

Part-III

Election of President and Vice President

15. Meeting for election of President and Vice President. (1) As soon as may be possible, after the completion of election under section 4 and after the results have been notified in the Official Gazette by the Government, the Registrar shall convene a meeting of the members of the Council for the purpose

of election of a President and of a Vice-President of the Council. The members elected to the council and present in the meeting shall bring the certificate of election in Form-E and certificate in Form-F issued by the Returning Officer.

(2) The members present at the meeting, so convened, shall elect one amongst them, who is not a candidate for the office of the President of Vice-President, to be the Chairman of the meeting.

- (3) The election of the Chairman of the meeting shall be conducted by the Registrar, who shall have no vote, by ballots taken in such manner as the Registrar may determine. In the case of equality of votes secured by two or more persons proposed as Chairman, the selection of one of them shall be decided by lot in such manner as the Registrar may determine.
- **16.** Election of President.- (1) The election of the President shall be held by ballots taken in such manner as the Chairman of the meeting may determine.
- (2) The Chairman of the meeting shall not ordinarily exercise any vote in the election of the President but shall, in the case of an equality of votes, exercise a casting vote.
- 17. Election of Vice-President.- When the President has been elected, he shall, if present at the meeting, conduct the election of the Vice-President. If he/she is not present at the meeting, the Chairman of the meeting elected under rule 15 shall conduct the election of the Vice-President. The remaining provisions of rule 16 shall apply *mutatis mutandis* in relation to the conduct of the election of the Vice-President.
- 18. Proceeding of meeting for the purpose of election.—
 The proceedings of the meeting shall be signed by the President if he/she is present at the meeting otherwise, it shall be signed by the Chairman of the meeting elected under rule 15. A copy of the proceedings together with the names of the elected President and Vice-President shall forthwith be forwarded to the Government for publication of the names in the Official Gazette.
- 19. Election for casual vacancies of the President or Vice-President.- Any vacancy occurring otherwise than by efflux of time shall be filled by holding bye-election in accordance with the provisions of the foregoing rules contained in this part of these rules.

Part-IV

Powers, duties, casual vacancies and re-election

20. Powers and duties of President.- The President shall

exercise such powers and perform such duties as are laid down in the Act and these rules, regulations and standing orders of the Council. He shall also perform such duties as he considers necessary in the furtherance of the objects for which the Council is established.

21. Vacancy of office of President.- If the Office of the President is vacant or if the President for any reason, is unable to exercise the powers and perform the duties of his office the Vice-President shall perform the duties and exercise the powers of the President.

Part -V

Management of the property of the Council and maintenance and audit of accounts

- 22. Purchase and Disposal of Assets.- The Council shall have power to purchase, acquire or hold immovable assets as well as movable assets. The Council may also dispose-off the assets, in the interest of the Council.
- 23. Registrar to be in charge of properties. The Registrar shall be in-charge of the all properties of the Council and he shall be responsible for proper management of the properties of the Council.
- **24. Opening of account in Bank.-** The Council shall open accounts in the scheduled banks as per requirement. The Council may decide to receive payments through online gateway of bank.
- 25. Signature on Cheques.- All the payments except payment for imprest, shall be made through cheques and cheques up to rupees one lac shall be signed by Registrar only and all cheques above rupees one lac shall be signed by Registrar and Chairman both.
- 26. Transactions generally by cheque.— Generally all receipts and payments shall be made by cheque/demand draft/online gateway only. In exceptional cases, decided by Registrar, transactions can be made in cash also.
- 27. Surplus funds.- Any surplus funds with the Council shall be kept in fixed deposit in any scheduled bank.
- **28.** Accounts of the Council. Accounts of the Council shall be prepared from 1st April to 31st March every year and-
 - (i) books of accounts as per relevant accounts rules shall be maintained with appropriate heads and all receipts and expenditure shall be entered therein.
 - (ii) the Registrar shall be allowed a permanent advance

of a certain amount as may be decided by the Council as imprest cash for petty expenses, for which a separate book shall be maintained.

- (iii) the expenditure incurred on account of such petty expenses shall be recouped from time to time by drawing from the Bank, and shall be entered in the Cash Book and the Ledger. Bills for such recoupment shall be passed by the appropriate authority specified in rule 25.
- 29. Expenditure to be as per budget.- No expenditure shall be incurred unless it has been provided for in the Budget approved by the Council and unless the necessary funds are available. Emergency expenditure necessitated by circumstances not foreseen may be allowed by the President to be incurred in anticipation of the approval of the Council, provided funds are available to meet the expenditure.
- **30. Budget of the Council.-** In the month of September every year, the Registrar shall prepare a statement of receipts and expenditure during the first five months of the financial year and an estimate for the next 7 months, and also an estimate for the budget for the year commencing on the 1st April next. These shall be placed before the Council and the Council forthwith shall decide what financial aid from the Government, if any, shall be asked for in order to enable it to carry on the functions of the Council.
- 31. Supplementary estimate. The Council may at any time during the year for which any estimate had been sanctioned cause a supplementary estimate to be prepared and submitted to it. Every such supplementary estimate shall be considered and sanctioned by the Council, in the same manner as if it were an original annual estimate.
- 32. Audit of accounts.- The accounts of the Council shall be audited once in every year by auditors appointed by the Council, and the Audit Report shall be considered by the Council, in its meeting following the submission of the Report. The audit report shall be submitted to the Council by the Auditor appointed on or before the date, so fixed by the Council. A copy of the audit report shall also be sent to the Government by the Council.

Part- VI General

33. Logo of the Council.- The Rajasthan Para-medical

Council can get a logo prepared and after adopting, this LOGO can be used on the official papers of the Council.

- 34. Reference to the Government.— If any question arises as to the interpretation or application of these rules or the validity of any election, the same shall be referred to the Government whose decision thereon shall be final.
- 35. Note of decent by registrar.- The Registrar shall put a note of decent on the decision taken by the Council and send it to the State Government for decision, if he/she feels that the decision taken by the Council is contrary to the financial rules and provisions of the Act and prevailing laws or against the interest of the council.
- 36. Appointment of employees.- The Council shall appoint employees on the permanent basis with the prior approval of the Government. The Council may obtain staff from any Government Department or any autonomous body on deputation, or on casual basis through any placement agency authorized by the State Government. The services of retired government employees may also be hired by the Council with the approval of the Government.
- 37. Perks to President and Vice President and Members.- President, Vice-President and Members of the Council shall not be entitled to receive any salary or remuneration including house rent allowance but they shall be entitled to get allowances as may be fixed by the Council for attending the meetings of the Council or committee.

FORM-A Nomination Paper (See rule 7)

1.	Name of proposer (in full as registered)	Passport Size
2.	Father's Name	Colour Photo
	Age	Council, and the
4.	Registration number	
5.	Residence Address	
6.	Office Address	(Self attested)
7.	Name of the Candidate Proposed	report shall also
	is bear of ordynamic per televial	
	and the second of the second o	

[.....(Name in full) a

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numberpropose election as member of the Rajast	red Para-Medical Professional in Rajasthan with registration rpropose the above named candidate for as member of the Rajasthan Para-medical Council *front red Para-medical professionals/teachers of the recognized ions.		
DateRegistrat		Cull) of proposer	
heroby declare that I agree to ered Para-Medical Professional in	leigor e me l	to itegieno sida	
 Name of proposer (in full as registered). Father's Name. Age. Registration number. Residence Address Office Address. Name of the Candidate Propose 	in notificitings	Passport Size Colour Photo (Self attested)	
TON PAPER AND NOTICE OF AUTOMOTIVE OF AUTOMO	I A A I I A A A A A A A A A A A A A A A	ne in full) a	
registered Para-Medical Profession numberpropose election as member of the Rajastl registered Para-medical profession institutions.	nal in Rajastha the above na nan Para-medi nals/teachers	an with registration med candidate for cal Council *from of the recognized	
		HERBIR Unvelope	
Date		n full) of proposer	
Later On Figure 1		SECOND) ·	
*Score out the words not applicable	e.		

Declaration by the candidate nominated

Passport Size Colour Photo	
(Self attested)	7

Name (in full) of the candidate

RECEIPT FOR NOMINATION PAPER AND NOTICE OF SCRUTINY

Signature of Returning Officer

FORM-B BALLOT PAPER [See rule 11 (4)]

Serial No.

S.No	Name and Registration no. of contesting candidate	Mark by Voter
1 1	continued 2	3
	Registrar mane actematics in the case of	mission the
	e of them shall be decided by lot in suc	Cate de dell'alle
	pay determine,	· · · · · · · · · · · · · · · · · · ·

Directions for voters:-

- 1. Every voter should put a cross mark (X) in ink in column 3 against the name of each person, the voter wants to votes for. No other mark, writing or signature, shall be put on ballot paper.
- 2. Every voter can record vote to a maximum number ofcontesting candidates. If you record vote more thancontesting candidates your vote will be rejected.
- 3. Every voter can vote for less thancandidates, if he so wishes.
- 4. The ballot paper thus marked with cross mark should be put the identification envelop and envelop with the ballot paper shall then be returned to the Returning Officer either by post, or hand over it to the Returning Officer personally. Ballot paper sent otherwise shall not be accepted. It shall be reached to the Returning Officer on or before the...(time).......(date)
- 5. The information on the back of the identification envelope shall be filled up in all particulars mentioned in the form printed thereon. Identification envelopes not so filled up, the ballot papers contained therein shall be rejected;

FORM-C Information on the back of identification envelop [See rule 11(4)]

	Number(As	stamped	on	the
*ballot	paper).	- Starrip Ca	OII	tire

63(16)	राजस्थान राज-पत्र, दिसम	बर 8, 2014 भाग 4 (ग)
Undersig addressed registered Council	(Named and the person to whom the days affirm that my name is and Para-Medical Professional with registration number	ne enclosed ballot paper was included in the register of in Rajasthan Para-medical; and that I have of this electorate for this
Address.		Signature (in full)
Date		
is perul Masthum Let my ex	FORM-D RESULT SHE [See rule 12(1)	Directions for voters: [(a)
medical profession*(Score of S. No.	Lesult Sheet of election as men Council *from nonals/teachers of the recognized out the words not applicable) NAME OF CANDIDATE WITH REGISTRATION NO.	registered Para-medical dinstitutions. NUMBER OF VALID VOTES RECORDED IN FAVOUR OF THE CANDIDATE 3
2. T fi it 3. T n 4. T 5. T I declare	Cotal no of identification envelopment of identification envelopment illing up the particulars cotal no of identification envelopment found in it	lops not opened due to non on the back side of ops opened but ballot papers

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2 (Name) (Registration no	.)
3 (Registration no	.)
4 (Registration no.)
5(Registration no.	
6(Name)(Registration no.)
have been duly elected as the member of Rajasthan Para-medica Council.	11
(Signature)
the cashes brieven B/	r
DateFORM-E	
CERTIFICATE OF ELECTION [See rule 12(1)(c)] This to certify that Mr./Mrs./Ms (Name) S/0, W/o, D/o (Address)bearing registration no	3
(Signature) Full Name Returning Officer	
FORM-F	
FORM OF OATH OR AFFIRMATION	
[See rule 12(1)(d)]	
I	

1:

. .

Para-medical Council.

Signature and name of the Member

Sworn in the name of God/Solemnly affirmed by Mr./Mrs./Msatat (Place)at (hour) this the..... day of 20 before me.

Signature of Returning Officer

Name and Seal

[No.F 28(2)M&H/Gr.3/2013] By Order of the Governor, नीत् बारूपाल,

Deputy Secretary to Government.

RAJASTHAN PARA-MEDICAL COUNCIL

NOTIFICATION

Jaipur, December 5, 2014.

G.S.R. 43: In exercise of the powers conferred by sub-section (3) of section 42 of the Rajasthan Para-medical Council Act, 2008 (Act No. 25 of 2008), the Rajasthan Para-medical Council, with the approval of the State Government hereby makes the following regulations, namely:-

Part I **Preliminary**

- 1. Short title and commencement.- (1) These regulations may be called the Rajasthan Para-medical Council Regulations, 2014.
- (2) They shall come into force with immediate effect.
- 2. Definitions.- (1) In these regulations unless the context otherwise requires,-
 - (a) 'Act' means the Rajasthan Para-medical Council Act, 2008 (Act No. 25 of 2008);
 - (b) 'Form' means form appended these regulations;
 - (c) 'Member' means Member of the Rajasthan Para-medical Council elected or nominated under section 4 of the

- (d) 'President' means the President of the Rajasthan Paramedical Council;
- (e) 'Registrar' means the Registrar of the Rajasthan Paramedical Council

appointed under section 15 of the Act;

(f) 'Vice President' means the Vice President of the Rajasthan Para-medical Council; and

(g) & 'Schedule' means schedule appended to these regulations.

- (2) Words and expressions used but not defined in these regulations but defined in the Act or rules made there under shall have the same meaning as assigned to them in the Act or rules, as the case may be.
- 3. Office of the Council.- The Office of the Council shall be situated in Jaipur.

PART II

Time and place of, and preparation of business for meetings of the Council

4. Time and Place of meetings of the Council.- (1) The meetings of the Council shall ordinarily be held at Jaipur on such dates as may be fixed by the Council:

Provided that the President may call special meeting at any

time after giving three days notice-

- (a) to deal with any urgent matter requiring the attention of the Council;
- (b) on a requisition signed by not less than one third of the effective members of the Council for a purpose which is within the scope of the Council's functions.

Provided further that meetings of the Council may be held

at any other place as may be decided by the Council.

- (2) The first meeting of the Council, not being a special meeting, held in any financial year shall be the annual meeting of the Council for that Year.
- (3) The President may, at any time, adjourn any meeting to any future day or to any hour of the same day.
- (4) Whenever a meeting is adjourned to a future day, the Registrar shall, if possible, send notice of the adjournment to every member, who was not present at such meeting.
- (5) When a meeting has been adjourned to a future day the President may change such day to any other day and the Registrar

shall send written notice of the change to each member.

(6) At a meeting adjourned to a future day any motion standing over from the previous day shall, unless the President otherwise directs, takes precedence of other matter on the agenda.

(7) Either at the beginning of the meeting or after the conclusion of the debate on a particular item during the meeting, the President or a member may suggest a change in the order of business on the agenda, if the Council agrees, such a change shall take place.

(8) No matter which had not been on the agenda of the original meeting shall be discussed at an adjourned meeting.

(9) The same quorum shall be necessary for adjourned meetings as for an ordinary meeting.

5. Agenda for special meetings.— At a special meeting referred to in the proviso to sub-regulation (1) of regulation 4 the subject or subjects for the consideration of which the meeting has been called shall only be discussed.

6. Notice of meetings.- (1) Notice of every meeting other than a special meeting called under the proviso to sub-regulation (1) of regulation 4, shall be dispatched by the Registrar to each member of the Council not less than fifteen days before the date of the meeting.

(2) Notice of special meeting shall be dispatched by the Registrar to each member of the Council not less than three days before the date of the meeting.

7. Agenda paper.- (1) The Registrar shall issue with the notice of the meeting, a preliminary agenda paper showing the business to be brought before the meeting, the terms of all motions to be moved of which notice in writing has previously reached him and the names of the movers.

(2) A member, who wishes to move any motion not included in the preliminary agenda paper or an amendment to any motion so included, shall give notice to the Registrar not less than fourteen clear days before the date fixed for the meeting.

(3) The Registrar shall, not less than ten clear days before the date fixed for the meeting, or in the case of a special meeting with the notice of the meeting, issue a complete agenda paper showing the business to be brought before the meeting.

(4) A member who wishes to move an amendment to any motion included in the agenda paper, but not included in the preliminary agenda paper, shall give notice thereof to the Registrar not less than three clear days before the date fixed for the meeting.

(5) The Registrar shall, if time permits, cause a list of all amendments, of which notice has been given under sub-regulation (4) to be made available for the use of every member:

Provided that the President may, if the Council agrees, allow a motion to be discussed at a meeting notwithstanding the fact that notice thereof was received late to admit of compliance with this regulation.

- 8. Admissibility of motion.- (1) The President shall disallow any motion.-
 - (a) if the matter to which it relates is not within the scope of the Council's functions;
 - (b) if it raises substantially the same questions as a motion or amendment which has been moved or withdrawn with the leave of the Council within one year of the date of the meeting at which it is designed to be moved:

Provided that such a motion may be admitted at a special meeting of the Council convened for the purpose on the requisition of not less than one-third of the members of the Council.

Provided further that nothing in these regulations shall operate to prohibit the further discussion on any matter referred to the Council by the State Government in exercise of any of their functions under the Act.

- (c) unless it is clearly and precisely expressed and raises substantially one definite issue; and
- (d) if it contains arguments, inferences, ironical expressions, imputations or defamatory statements:

Provided that if a motion can be rendered admissible by amendment, the President may, in lieu of disallowing the motion, admits it in amended form.

(2) When the President disallows or amends a motion, the Registrar shall inform the members who gave notice of the motion, about the order of disallowance or, as the case may be, of the form in which the motion has been admitted.

PART III

Conduct of business at meetings of Council

9. Presiding officer.- (1) Every meeting of the Council shall be presided over by the President, or if he is absent, by the Vice-President, or if both the President and the Vice-President are absent, by a Chairman to be elected by the members present from

among themselves.

- (2) All references in this part to the President shall be read as referring to the person, for the time being, presiding over a
- 10. Quorum.- The quorum for a meeting of the Council shall be one third of the effective membership of the Council on the date of such meeting.
- 11. Adjournment for want of quorum.-If, at the time appointed for a meeting a quorum is not present, the meeting shall not commence until a quorum is present, and if a quorum is not present on the expiration of twenty minutes from the time decided for the meeting or during the course of any meeting, the meeting shall stand adjourned to such future time and date as the President may direct.
- 12. Conduct of business.- (1) Every matter raised by a. member shall be determined on a motion moved by a member and put to the Council by the President.

(2) Votes shall be taken by show of hands or by division or by ballot, as the President may direct:

Provided that votes shall be taken by a ballot if three members so desire and ask for it.

Provided further that if voting has been by a show of hands a division shall be taken if a member asks for it.

- (3) The President shall determine the method of taking votes by division.
- (4) The result of the votes shall be announced by the President and shall not be challenged.
- (5) In the event of an equality of votes the President shall have a second or a casting vote.
- 13. Motions.- (1) Every motion or amendment shall be seconded and if not seconded shall deemed to have been withdrawn.
- (2) When a motion has been seconded, it shall be stated from the Chair.
- (3) When a motion has been thus stated, it may be discussed as a question to be resolved either in the affirmative or in the negative or any member may, subject to regulations 14 and 15, move an amendment to the motion:

Provided that President shall not allow an amendment to be moved which if it had been a substantive motion and would have been in-admissible under regulations 5.

14. Scope of amendments.- (1) An amendment shall be relevant to, and within the scope of, motion to which it is proposed.

(2) An amendment may not be moved which has merely the effect

of a negative vote.

- (3) The President may refuse to put an amendment which in his opinion is frivolous or not relevant to the motion.
- 15. Form of amendments.- A motion may be amended by,-
 - (i) the omission, insertion or addition of words; or
 - (ii) the substitution of words for any of the original words.
- 16. Identical motion.- When motions identical in purport stand in the names of two or more members, the President shall decide whose motion shall be moved and the other motion or motions shall thereupon be deemed to be withdrawn.
- 17. Debate.- (1) When a motion or amendment is under debate, no proposal with references thereto shall be made other than,-
 - (a) an amendment of the motion or of the amendment, as the case may be, as proposed in regulation 13;
 - (b) a motion for the adjournment of the debate on the motion or amendment either to a specified date and hour or sine die;
 - (c) a motion for the closure, namely a motion that the question be now put; and
 - (d) a motion that the Council instead of proceeding to deal with the motion do pass to the next item on the programme of business.
- (2) No motion or amendment shall be moved so as to interrupt a speech:

Provided that no motion of the nature referred to in clauses (b), (c) and (d) shall be moved or seconded by a member who has already spoken to the question then before the meeting:

Provided further that a motion referred to in clauses(c) and

(d) above shall be moved without any speech.

(3) It shall be the discretion of the President to put or refuse to put to the Council a proposal of the nature referred to in clause (b) of sub-regulation (1).

(4) Unless the President is of opinion that a motion for closure is an abuse of the right of reasonable debate, he shall forthwith put a motion that the question be now put and if that motion is carried that substantive motion of amendment under debate shall be forthwith:

Provided that the President may allow the mover of the substantive motion to exercise his right of reply before the substantive motion under debate is put.

(5) Subject to the provisions that it shall not interrupt a speech, a proposal to adjourn the meeting to a specified date and hour may be made at any time, but it shall be in the discretion of the President to put or refuse to put such a proposal to the Council.

18. Withdrawal of motion.- A motion or any amendment which has been moved and seconded shall not be withdrawn save with the leave of the Council which shall not be deemed to be granted, if any member dissents from the granting of leave.

19. Discussion by members.- (1) When a motion has been moved and seconded, members either than the mover and the seconder may speak on the motion in such order as the President may direct:

Provided that the seconder of a motion or of an amendment may, with the permission of the President, confine himself /herself to seconding the motion or amendment, as the case may be, and speak thereon at any subsequent stage of the debate.

(2) During the meeting, the President may, at any time, make any objections or suggestions or give information to elucidate any point to help the members in the discussion.

(3) A member desiring to make any observations on the matter before the Council shall speak from his/her place, shall rise when he/she speaks, and shall address the President.

(4) If at any time the President rises, any member speaking shall immediately resume his/her seat.

(5) No member shall be heard except upon the business before the Council.

(6)When an amendment to any motion is moved and seconded or when two or more such amendments are moved and seconded, the President shall, before taking the sense of the Council thereon, state or read to the Council the terms or the original motion and of the amendment or amendments proposed.

(7) An amendment to a motion shall be put to the vote first.

(8) If there be more than one amendment to a motion, the President shall decide in what order they shall be taken.

(9) When any motion involving several points has been discussed, it shall be in the discretion of the President to divide the motion

and put each or any point separately to the vote, as he may think fit.

- (10) The President shall decide all points of order which may arise, and his decision shall be final.
- (11) If any question arises with reference to procedure in respect of a matter for which these regulations make no provisions, the President shall decide the same and his decision shall be final.
- (12) No person except members of the Council, Registrar and Council staff required for arrangements, will be allowed to remain in the meeting room. The President at any time may hold the meetings in camera.
- 20. Right of reply of the mover.— (1) The mover of an original motion, and if permitted by the President, the mover of any amendment, shall be entitled to a right of final reply and no other member shall speak more than once to any debate except with the permission of the President, for the purpose of making a personal explanation or of putting a question to the member then addressing the Council:

Provided that any member may at any stage of the debate may rise to a point of order, but no speech shall be allowed on that point.

Provided further that a member who has spoken on a motion may speak again on an amendment subsequently moved to the motion:

(2) No member shall, save with the permission of the President, speak for more than five minutes:

Provided that the mover of a motion when moving the motion may speak for ten minutes.

- (3) A speech shall be strictly confined to the subject matter of the motion or amendment, on which it is made.
- (4) Any motion or amendment standing in the name of a member who is absent from the meeting or unwilling to move it may be brought forward by another member with the permission of the President.

PART IV

Minutes of the Meeting

21. Proceedings to be preserved. The proceedings of the meeting of the Council shall be preserved in the form of printed or cyclostyled minutes which shall be authenticated, after confirmation, by the signature of the President.

22. Circulation of minutes.- A copy of the minutes of each meeting shall be submitted to the President within ten days of the meeting and attested by him and they shall then be sent to each member within thirty days of the meeting. The minutes may be sent by email also.

23. Contents of minutes.-The minutes of each meeting shall contain such motions and amendments as have been moved and adopted, or negatived, with the names of the mover and the seconder, but without any comments and without any record of observations made by any member at the meeting.

24. Objection to minutes, etc.-If any objection regarding the correctness of the minutes is received within thirty days of the dispatch of the minutes by the Registrar such objection together with the minutes as recorded and attested shall be put before the next meeting of the Council for confirmation. At this meeting no question shall be raised expect as to the correctness of the records of the meeting:

Provided that if no objection regarding a decision taken by the Council at a meeting is received within thirty days of the dispatch by the Registrar of the minutes of that particular meeting such decision may, if expedient, be put into effect before the confirmation of the minutes at the next meeting.

Provided further that the President may direct that action be taken on a decision of the Council before the expiry of the period

thirty days mentioned above.

25. Circulation of final minutes.- The minutes of the Council shall, as soon as is practicable, after their confirmation, be made up in sheets and consecutively paged for insertion in a volume, which shall be permanently preserved. A copy of such volumes shall be circulated to each member of the Council.

PART V

Powers and Duties of Registrar

26. Registrar.- The Registrar of the Council shall be an officer of State Service and shall be appointed by the State Government. He shall hold office at the pleasure of the State Government.

27. Powers and duties of Registrar.- (1) The Registrar shall exercise in respect of the office of the Council, such powers as are exercised by the "Head of Office" under the Government of (2) The Registrar shall generally perform such duties as under:-

(i) She/he shall be responsible for the safety of the property of the Council and the control and management of the office, accounts and correspondence, and shall see, that the office staff attend punctually, and generally fulfill all such duties as may be required of him/her by the Council for the purpose of the Act.

(ii) She/he shall attend and take notes of the proceedings of meeting of the Council.

(iii) She/he shall keep and maintain the registers of Para Medical professionals under section 20 of the act.

(iv) She/he shall prepare budget for the next ensuing financial year and it will be laid before the Council.

(v) She/he perform such other functions as may be assigned by the Council.

(3) The Registrar shall put a note of decent on the decision taken by the Council and send it to the State Government, if he feels that the decision taken by the Council is contrary to the financial rules and provisions of the Act and any prevailing law, and State Government shall take a decision on it.

PART VI

Committees

28. Committees.-, (1) The Council may, at any time, on the adoption of a motion to this effect, appoint a committee consisting of any member of its members or resolve itself into a committee for the consideration of any business.

(2) A member may move a motion that a committee of the Council be appointed or that the Council do resolve itself into a committee.

(3) A motion for the appointment of a committee shall define the functions of the committee and the number of members to be appointed.

(4) Any member may, without notice, move an amendment to such a motion proposing that the functions or the number of members of

the committee be enlarged or reduced.

(5) If a motion for the appointment of a committee is adopted the Council shall appoint members to this committee and decide the scope of business of the committee.

(6) If the number of member proposed as members of the committee, does not exceed the total number of members to form the committee, the members so proposed shall be appointed as

members of the committee. If the number of member so proposed exceeds the total number of members to form the committee, ballot shall be held and the requisite number of member who obtain the largest number of votes shall be appointed.

(7) The meetings of committee shall ordinarily be held at Jaipur.

- **29. Quorum.-** The quorum for the committee shall be one third of the total number of members of the committee.
- 30. Chairman, etc, of committees.- If committee consists of the all the members of the Council, the President of the Council shall be the Chairman of the committee and in all other cases, the Chairman of the committee shall be appointed by the Council at the time of appointment of committee.
- 31. Report of the committee.— Where the Council do resolve itself into a committee, resolution passed by the such committee shall be prepared by the Registrar and signed by the President and shall have no effect unless confirmed by the Council at a meeting and in other cases resolution passed by a committee, report shall be prepared by the Chairman of the committee and signed by him and other members of the committee. The registrar shall put it up before the Council and the Council shall take a decision on it in the next meeting.

PART VII Examination

- 32. Examination.- The Council shall conduct examinations of diploma courses only. The examination of degree and post graduation courses shall be conducted by Rajasthan University of Health Science. The examination of first batch of diploma courses shall also be conducted by the Rajasthan University of Health sciences and then examination of subsequent batches shall be conducted by the Council.
- **33.** Time of examination.- (1) The date of all examinations shall be fixed by the Council every year and shall be published in the papers and notice board of the Council and institutions running course. The Council shall not be held responsible in case if any student remains uninformed.
- (2) The Council shall conduct two examinations in a year i.e. annual and supplementary examination.
- 34. Appointment of Examiners.- The Registrar shall appoint examiners for paper setting, practical examination and answer sheet evaluation from time to time, from among the panel

of examiners approved by the examination committee.

- 35. Conduct of Examinations.- (1) The Council shall appoint observer for the theory and practical examinations and shall issue such instructions, as may be necessary for the smooth conduct of the theory and practical examinations.
- (2) Copies of question papers shall be printed or cyclostyled at such time as may be determined in each case by the Registrar.
- (3) The Registrar of the Council shall send examination material before the commencement of examinations to the Superintendent of each examination centre.
- (4) The Registrar shall issue such general instructions, approved in this behalf by the Council, for the guidance of examiners as considered necessary for the proper discharge of their duties and shall prescribe suitable forms for the recording of the marks obtaining by the examinees.
- (5) Invigilators at examination centres of the Council shall be appointed by the Superintendent of examination centre with the consent of the council.
- (6) The Registrar shall appoint a Superintendent for each examination centre.
- (7) Such other staff, which may be required for the conduct of examination, shall be appointed by the Centre Superintendent and a copy of such appointment order shall be sent to Registrar.
- 36. Preparation of Results.— (1) An examination committee, consisting of such number as may be approved for the purpose by the Council, shall be appointed from amongst the staff to prepare the result of the examinations for publication.
- (2) Any attempt made by or on behalf of candidate to secure preferential treatment in the matter of his or her examination, shall disqualify the candidate.
- 37. Fixation of Examination Centres.- (1) All Centres for examinations of the Council shall be fixed by the Council each year according to convenience and suitability. Unwanted correspondence in this regard shall not be entertained.
- (2) The examinations of the Council shall be held at such centres only as are fixed by the Council for the purpose.
- 38. Question papers and conduct of examination- (1) Question papers of examination shall be set in English and Hindi and candidates shall be permitted to answer their question in the language of their choice as stated in the application for admissions to the relevant examination.

(2) Theory papers in sealed cover shall be sent to the respective examination centres well in time but if for any reason these are not received at any examination centre in time, the Superintendent of such centres shall bring this fact to the notice of the Registrar.

(3) All Question papers shall be opened only at the stipulated time and date of the respective examinations, in presence of three responsible persons of the area and the Superintendent of the Centre and two invigilators and one student appearing in the examination shall sign the envelope containing these Question papers, mentioning the date and time the envelope was opened.

(4) The answer books shall be collected and enclosed in a cloth cover for the purpose of dispatch to the Registrar and each package shall be duly sealed by the brass seal of the Council and signed by the Superintendent of the Centre and invigilator or invigilators, in the presence of each other, immediately after the examination is over.

(5) Every Superintendent of an examination centre shall have to arrange a hall with tables & chairs, etc. for the written test and all essential equipments which may be needed for the practical examination and the expenditure on the above shall be borne by the individual centre concerned.

(6) The authorities of the Council may appoint an Inspector who shall be authorized to inspect any examination centre at any time and to submit an inspection report. Such Inspector shall receive the fullest co-operation of the Superintendent of the Examinations Centre.

(7) The responsibility for the successful holding of examinations at all centres shall be that of Superintendent of the examination centres.

(8) If in any case the Superintendent of examination centre acts irresponsibility in the opinion of the authorities of the Council, suitable action shall be taken against such Superintendent and the decision of the Council in this respect shall be final and binding on the Superintendent concerned.

(9) All complaints regarding the holding of examinations in respect of examination centres shall be made to the Registrar within fifteen days of the commencement of the examination. Each complaint must bear the signature and full address of the complainant. Only those complaints shall be entertained which are considered justified by the Council, whose decision in this respect shall be final and binding. No anonymous complaint shall be

entertained.

- (10) All Superintendents of examination centre, paper setters, invigilators, answer sheet evaluator, practical examiner and other staff deployed for conduct of examination shall be paid remuneration decided by the Council. All bills in connection with T.A. & D.A. claims etc. shall be submitted within forty days of the completion of the examination. No bills submitted thereafter shall be entertained. No correspondence in this respect shall be entertained.
- (11) Normally change of centre is not permitted. In exceptional circumstances the candidate shall be allowed to change the centre, if intimation in this respect reaches the office of Registrar ten days prior to the comme neement of the examination.
- (12) Where the authorities of the Council have reasons to believe that foul and unfair means have been adopted in the course of conduct of the examination, the examination held at such centre is liable to be cancelled in respect of that examination centre. The decision of the Council in this regard shall be final and binding on all concerned.
- (13) If it is found that a candidate/ candidates/ has/ have adopted unfair means, such candidate/ candidates is/ are liable to be expelled from the examination hall and he/ she /they may be further debarred from appearing for the examinations of the Council for a specific period as may be determined by the Council. The decision of the Council in this respect shall be final and binding on such candidate/ candidates. Rectified result of any candidate received from the appointed examiner after one month from the declaration of the result shall not be entertained under any circumstances whatsoever.
- (14) Where the Division of candidate falls short by one mark in the aggregate, he/ she shall be awarded one grace mark provided such candidate passes both in theory and practical examination separately without looking into consideration award of any grace mark.
- 39. Cancellation of Certificate.- (1) If at any time it is discovered that a candidate has obtained diploma/ certificate wrongly to which he/ she was not entitled by virtue of his/ her result, the Council shall cancel his/ her certificate.
- (2) If two certificates have been issued to a candidate inadvertently of different division of the same class, subject and

session, the Registrar of the Council shall cancel incorrect certificate.

40. Disposal of examination material.- The examination answer books and details regarding marks obtained by the examinees, except the Examination Register, shall be destroyed after expiry of two years of the declaration of the result.

PART VIII

Courses and syllabus

41. Courses and Syllabus.- (1) The Council may allow the recognized institutions to run the following courses. The Council may include more courses with the prior permission of the State Government.

S No.	Name of Course	Duration	Eligibility
1.	Diploma in Physiotherapy	2 Years	10+2
2.	Diploma in Medical Laboratory Technology	2 Years	10+2
3.	Diploma in MRI Technology	2 Years	10+2
4.	Diploma in Medical X-Ray Technology	2 Years	10+2
5.	Diploma in Dental Mechanic Technology	2 Years	10+2
6.	Diploma in Dental Hygiene Technology	2 Years	10+2
7.	Diploma in Operation Theater Technology	2 Years	10+2
8.	Diploma in Dialysis Technology	2 Years	10+2
9.	Diploma in Orthopedic Technology	2 Years	10+2
10.	Diploma in E.C.G. Technology	2 Years	10+2
11.	Diploma in Ultrasound Technology	2 Years	10+2
12.	Diploma in Blood Bank Technology	2 Years	10+2
13.	Diploma in CT Scan Technology	2 Years	10+2

14.	Diploma in Endoscopy Technology	2 Years	10+2
15.	Diploma in E.E.G. Technology	2 Years	10+2
16.	Diploma in TMT Technology	2 Years	10+2
17.	Diploma in Cath lab Technology	2 Years	10+2
18.	Diploma in Emergency & Trauma Care Technology	2 Years	10+2
19.	Diploma in Optometry Technology	2 Years	10+2
2.	Diploma in Perfusion Technology	2 Years	10+2

- (2) The syllabus for the Diploma Courses mentioned in sub-regulation (1) above, shall be as specified in Schedule-1 to Schedule-20.
- (3) The Council may, at any time, amend or modify syllabus of any course. Such amended or modified syllabus shall be effective from the next session of the course.

PART IX Registration

- **42.** Eligibility for registration. The following persons shall be eligible for registration,-
 - (i) who has obtained certificate of a Para-medical course from any Government body or private body permitted by the Government for the purpose who has run the course and awarded certificate before the commencement of these regulations.
 - (ii) who has passed the Para-medical course from any institution recognized by the Rajasthan Para-medical Council.
 - (iii) who has passed the Para-medical course from any institution/ Government body, outside the territories of Rajasthan, recognized for the purpose by the concerned State Government or Central Government.
 - (iv) who has passed the Para-medical course from any institution, outside the territories of India, recognized for the purpose by the Government of the country concerned and verified by Government of India.
- 43. Registration.- Every person who is eligible for registration at the time of commencement of these regulations shall

apply for registration within three months of the commencement of these regulations and the person who becomes eligible for registration after commencement of these regulations shall apply for registration within thirty days from the date on which he became eligible for registration.

44. Entry of new titles and qualification.— If any person after registration obtains any title or qualification other than the title or qualification in respect of which he/she has been registered, shall get registered such title or qualification on payment of fees as specified in Schedule-21.

45. Application for registration.- (1) Every application for registration under these regulations shall be in the Form-1 and shall be accompanied by such fee and late fee, if any, as specified in Schedule-21.

(2) A separate register of Para-medical professional for each subject shall be maintained in the office of the Council in Form-2. The form of the register may be modified by the resolution passed by the Council.

(3) An application for registration shall be addressed to the Registrar and if the Registrar is satisfied that the applicant is entitled to have his name entered in the register, he shall enter thereon the name of the applicant and issue to him a certificate of registration in Form-3. The certificate of registration shall be issued with seal and signature of the Registrar. The Registration shall be valid for a period of five years.

(4) If the Registrar is of the opinion that applicant is not eligible for registration, he shall reject the application filed by the applicant.

46 Appeal.- Appeal under the Act shall be filed by the aggrieved person on plain paper stating therein full particulars of the appellant and brief description of grounds of appeal and shall be accompanied by copy of the impugned order.

47. Renewal of Registration.- (1) Certificate of registration may be renewed on an application filed by the applicant on plain paper along with original certificate of registration and shall be accompanied by such fee as specified in Schedule-21. The application for renewal shall be made three months before the expiry of period of registration.

(2) Where the renewal is not made three months before the expiry of period of registration, the Registrar shall remove the name of the defaulter from the register:

Provided that the name, so removed, may be restored on payment of the renewal fee, together with such fine, as may be decided by the Council, from time to time.

(3) On payment of the renewal fee and the fine, if any, the Registrar shall make an entry of renewal on the Certificate of Registration.

48. Removal from the Register.- (1) Subject to the provisions of the Act, where the Registrar is satisfied after giving a reasonable opportunity of being heard and after making such further enquiry, as he may think fit, he may order that the name of any person shall be removed from the register if,-

(a) the person dies;

- (b) his name has been entered in the register by error, or on account of misrepresentation or suppression of any material fact; or
- (c) he has been convicted of any offence under this Act or has been guilty of the infamous conduct in the profession which, in the opinion of the Registrar, render him unfit to be on the rolls of the register.
- (2) The Registrar may direct that any person whose name is ordered to be removed from a register shall be ineligible for registration under this Act either permanently or for such period as may be specified.
- (3) A person aggrieved by an order may, within thirty days from the date of order, file an appeal to the Council and the decision of the Council thereon shall be final.
- (4) A person whose name has been removed from the register under this regulation shall forthwith surrender his Certificate of Registration to the Registrar.

PART X

Code of Ethics of Para-medical Professionals

- 49. Code of Ethics.- A Registered Para-medical Professional shall,-
- (i) be dedicated to provide competent medical care, with compassion and respect for human dignity and rights;
- (ii) uphold the standards of professionalism, be honest in all professional interactions;
- (iii) respect the law and also recognize a responsibility to seek changes in those requirements which are contrary to the interests of patient;

- 63(36)
- (iv) respect the rights of patients, colleagues and other health professional, and shall safeguard patient confidence and privacy within the constraints of the law;
- (v) continue to study, apply, and advance scientific knowledge, maintain a commitment to medical education, make relevant information available to patients, colleagues, and the public, obtain consultation, and use the talents of other health professionals when indicated;
- (vi) recognize the responsibility to participate in activities contributing to the improvement of the community and the betterment of public health;
- (vii) while caring for a patient, regard responsibility to the patient as paramount; and
- (viii) support access to medical care of all people.

PART XI

Staff, Salaries, Allowances and Perks

- **50. Staff, Salaries, Allowances and Perks.-** (1) The Council shall appoint such number of officer and servants as may be determined by it, with the approval of the State Government.
- (2) The salary and other conditions of service of the officers and servants of the Council shall be such as may be determined by it with the prior approval of the State Government.
- (3) The qualifications of the persons appointed in the Council shall be such as may be determined by it with the prior approval of the State Government.

PART XII

Eligibility criteria for admission

51. Eligibility criteria for admission.- (1) The minimum qualification for admission to the Para-medical Diploma Courses shall be 10+2 class pass with Science subjects (Physics, Chemistry, Biology, Biotechnology, Mathematics) with minimum 45 percent marks in aggregate. Minimum aggregate marks for the Candidates belonging to Scheduled Castes, Scheduled Tribes, Backward Class or Special Backward Class shall be 40 percent. If sufficient number of candidates with science subject is not available, the Council may grant admission to such candidates who have passed 10+2 class from other streams also. Allotment of students shall be

made on the basis of marks obtained in 10+2 examination.

(2) The minimum age for admission shall be 17 years on or before 31st December of the year in which admission is sought.

PART XV

Recognition of Institutions

52. Procedure for recognition.- (1) Every Para-medical institutions seeking recognition must be any organization under Central Government/State Government/local body or Society registered under the relevant law or Trust or Company incorporated under the Company Act.

(2) Every Para-medical institution who is eligible for recognition at the time of commencement of these regulations shall apply for recognition within three months of the commencement of these regulations and the organization who is willing to set up Paramedical institution after commencement of these regulations shall apply for recognition to the Registrar by 31st July every year. The application for recognition shall be made to the Registrar in Form-4 and shall be accompanied by such fees as specified in Schedule-21.

(3) On receipt of an application in Form-4, application shall be scrutinized by the Council and if found complete, the Council shall organize inspection of the institute.

(4) A panel of Inspectors shall be prepared by the Council who shall inspect the institutions. A member of the Council shall not be

eligible to be included in the panel of Inspectors.

(5) The Registrar shall appoint two inspectors for the inspection, from the panel of Inspectors, at random. The Inspectors, so appointed, shall submit inspection report to the Registrar in Form-5 separately within 15 days of the appointment. If any Inspector fails to submit his inspection report within time specified above, the Registrar may appoint another Inspector.

(6) If Registrar is not satisfied with the inspection report or the institution has any disagreement with the inspection report, the Registrar may appoint third Inspector and such Inspector shall submit his inspection report within 15 days of his appointment. The Registrar may also inspect himself. The inspection report of Registrar or third Inspector shall be final. If third inspection is done on the request of the institution, the institution will have to pay fees specified in Schedule-21.

(7) The Council after considering inspection report/reports, may

either issue letter of recognition or reject the application within 90 days from the last date fixed for receipt of the application under sub-regulation (2) above.

- (8) Any institution who has continuously run any Para-medical course successfully for five years and fulfills all the standards fixed by the Council and if there is no complaint against that institution, permanent recognition may be granted by the Council to such institution on the payment of the fees decided by the Council.
- 53. Infrastructure in Institutions.- (1) For recognition under these regulations and running a Para-medical institution, the following infrastructure facilities shall be required.-

A. Physical Facility:-

Building- Institute shall have preferably its own building. Whereas to start with, a rented building may be permitted for a period of maximum 5 years on submission of a registered rent agreement. But for permanent recognition own building shall be essential. Minimum requirement for one course with 25 students shall be as under. (For additional students, number of class rooms and labs shall be increased proportionately). Dedicated space of 4000 Sq. ft. area per Diploma course is essential. Standard distribution is given below:-

S.	Description	Area
No.	complete street the second street in the	manifecture and a contract of the
1.	Principal Office one	200 sq. ft
2.	Office Facilities	300 sq. ft
3.	Number of Class Rooms two	450 sq. ft each
4.	Number of Labs one	450 sq. ft each
5.	Library one	700 sq. ft
6.	Common facilities	450 sq. ft
7.	Boys and Girls hostel	Desirable
8.	Sports Facilities	Desirable
9.	Transportation Facilities (as per requirement)	Desirable

B. Teaching Faculty:

S. No.		Qualification	Full time /Part Time/ Visiting
1.ve	Principal	MD/MS/MBBS or MSC with 5 Years' experience as faculty	

	Professor/ Lecturer	MD/ MS/ MBBS or MSC with Para Medical subject or BSC in Para Medical subject with 4 years' experience	time/ visiting
3.	Technicia n	Qualified in the specialty	Full Time of

Students Teachers ratio: 10:1

C. Clinical facility:-

- (i) The institute should have own Hospital/ Nursing home/ Diagnostic Centre, if not, it may be on tie up basis also with minimum 10 years registered agreement for the same.
- (ii) A running Hospital/ Nursing home/ Diagnostic Centre, with minimum 50 bed capacity is essential for 25 students. For additional students the ratio of one student to two beds will apply.

(iii) Hospital/Nursing home/Diagnostic Centre should not be beyond 5 Kilometers from the institute.

D. Equipments and Instruments:- Equipments and instruments required for various Diploma courses shall be as specified in Schedule-22 to Schedule-41.

(2) Infrastructure facilities should be made available at the time of inspection for physical verification.

PART XVI Miscellaneous

- 54. Fees.- The fees payable in respect of all matters and proceedings provided for in these regulations shall be such as specified in Schedule-21.
- 55. Remuneration for inspection.- The Inspector appointed for inspection of the institutions shall be paid actual travelling expenses up to the limit of third AC plus Rs. 1000/- as honorarium per inspection.
- 56. Accounts.- The Accounts Officer/ Assistant Account Officer shall be responsible for proper maintenance of accounts and the Cash Book. He shall ensure day-to-day accounting of all moneys received and spent by the Council are entered in Cash Book.

Form-1 [See regulation 45 (1)]

Paste a passport size applicant attested by a Gazetted officer or Head of the institution Studied last

To

The Registrar Rajasthan Para Medical Council Jaipur

Sub.- Application for Registration as Para Medical Personnel

- 1. Name of the Applicant (In block letters)
- 2. Father's Name (in block letters)
- 3. Mother's Name (in block letters)
- 4. Date of Birth in figures (in Christian era)
- 5. Date of Birth in words
- 6. Address to which communications are to be sent Phone No. with STD code
 Mobile No.
 Email
 - Fax
- 7. Permanent Address
- 8. Name of State according Bona-fide residence certificate
- 9. Nationality
- 10. Sex
- 11. Official Address of the applicant

12. Educational qualification:-

S. No.	Name of the course	Name & Address of the Institute/ College	Period of study	Year of Passing	Percentage of marks	Name of University/ Board under which the course was conducted
1						
2						
3					111 - 2005	
4					CLE LINE THAT	
5						
6						

13. Experience:-

S.d No.	Name of -006 Hospital/Institute /College	work	experience	the Head of
1,	n the space provided			9 . Isolay od od
3	be attested by a s	bluoda #	alt bas mo	nothesited
4	TORBO ORI STORW		ni orb lo	officer/Head

14. State the category to which the registration is applied (See the instruction).

15. State the medium of instruction of training

16. Details of remittance of registration fee

(DD Number and Date/transaction number and ID if paid through online):

Signature of applicant with name

DECLARATION

Signature of applicant with name

Place:

Instructions

(1) Applicant shall enclose a D.D. of Rs. 2000/- (for each Course) drawn in favour of Registrar, Rajasthan Para Medical Council, payable at Jaipur or transaction number and ID if paid through online, as registration fee. Applicant registered with other State Councils will pay 3000/- as registration fee and applicant qualified from other countries will pay Rs. 10000/- as

registration fee. A fees of Rs. 1500/- will be payable for registration of extra qualification.

(2) Registration fee will not be refunded for any reason.

(3) Three recent and identical passport size colour photographs are to be used. One should be pasted on the space provided on the application form and that should be attested by a gazetted officer/Head of the Institution where the candidate is studying/has studied for the qualifying examination/or Head of Institution where he is working. The other copies of photograph (unattested) should be enclosed with the application and his/her name and date of birth should be printed/written on its bottom.

(4) The following documents should be enclosed with the duly filled application form in the order below.

(i) Demand draft in favour of Registrar, Rajasthan Para Medical council, Jaipur or transaction number and ID if paid through online.

(ii) Copy of the letter of the recognition of the institution/college/university from any state Government or central Government for the purpose.

(iii) Attested copy of Secondary School Marks Sheet to prove the date of birth.

(iv)Attested copy of 10+2 mark list (both sides).

(v)Attested copy of qualifying examination (both sides) for which registration is sought (2 copies).

(vi)Attested copy of all additional qualification for which registration is sought (2 copies)

(vii) Attested copy of Certificate of Bona-fide Residence.

Form -2

[See regulation 45 (2)] Name of Father's Date of Address Name of Name Year Qualificati-NO. Registrati Candidat Name Renew-Photo of birth Institute of of the providing Univer passin Up to Candiddiploma/ sity or g ate degree council 1 2 . 5 4 . 10 11 12

Form-3
[See regulation 45 (3)]

Certificate of Registration as paramedical professional RAJASTHAN PARA-MEDICAL COUNCIL CERTIFICATE OF REGISTRATION

Photo of Candidate

This is to certify that Mr./Ms./Mrs. S/o,D/o,W/o trained in..... (name of course) has been registered as a..... under the provisions of section 17 or section 32 of the Rajasthan Para-Medical Council Act, 2008 by the Rajasthan Para-Medical Council. Registration No..... Date.... This certificate will be valid for 5 years from the date of registration. Logo of Council Form-4 [See regulation 52 (2) & (3)] To The Registrar The Rajasthan paramedical council Jaipur (Rajasthan) Subject - Application for permission to start Para Medical

63(44)	राजस्थान राज-पत्र, दिसम्बर ८, २०१४ भाग ४ (ग)
	(Name of the Course).
permis	
	course). Details of information required are -
1. Nan	ne of the Institution
3. Name Deed	of the Chairperson/ Secretary
the n	otary to be attached) no possession of a sport
4. Addr	ress of the Institution where Para medical course will
Dist Tel.	rictStatePin Code NoFax(M) Iailwebsite.
Qualif Tel. N	e of the Principal / Dean/HOD
1 Govern	
TITUST	5 Company
	of establishment
	rate budget allocated to Paramedical Course (Last year ted expenditure statement enclosed).
	Annexure Annexure
	redical Course applied (Please mention name)
	per of seats proposed
	r Educational Institutions run by the management
	e of the Courses already running in the college

13. PHYSICAL FACILITIES:Separate building with 4000 Sq. ft. area wise distribution is given below:-

1.	Land available for the said Institution (relevant documents to be enclosed)	
2.	Whether the institution has own Building.	YesNo
3.	(i) Blue Print of building(ii) If rented then registered rent deed for at least 10 years should also be attached.	d lours amulios
4.	Principal Office	Area in sq. feet
5.	Office Facilities	Area in sq. feet
6.	Number of Class Rooms & Area in sq. feet	medical institution
7.	Number of Labs & Area in sq. feet	
8.	Library Area in sq. feet	*
9.	Common facilities in sq. feet	Affiliated viospilat
10.	Boys and Girls hostel (desirable)	Desirable
11.	Sports Facilities	Desirable
12.	Transportation Facilities (as per requirement) (desirable)	Desirable

14. LIBRARY FACILITIES:-

S. No	Specialty Subjects	No. of Books	No. of Journals	Amount	Bills enclosed
I have	any Deligit 1018	Maria Cara		nstitute	
PARTY.	CHARAM MARK	Dielahisbiri	-aprile len	POR STRAT	725 127

15. CLINICAL FACILITIES:- SMOODE AND ADMINISTRA

1.	Name of the Parent/Own Hospital* ((Minimum 50 bedded Hospital) No. of Beds distribution enclosed)	Annexure
	Proof of the Hospital being a Parent Hospital*	Annexure
	Pollution control board certificate of the Hospital:	Annexure
植	Distance of hospital from Paramedical Institution	Olymph

^{*}Parent Hospital

For a Para-medical Institution a 'Parent Hospital' means a Hospital either owned and controlled or managed and controlled by the parent organization of the Institue.

2.	Name of the Affiliated Hospital*, if any (Minimum 50 bedded Hospital) No. of Beds distribution and MOU attached. Name of the CMO with Tel No. & Mobile No.:	TOL Cish Grad agis GLEA TAL	Annexure
	Pollution control board certificate of the affiliated hospital to be attached (Duly attested by notary)	1 1101 1504 01 1013 0504	Annexure
	Distance of hospital from Paramedical institution	s hi la à	Section 1

*Affiliated Hospital

For the Para-medical Institution "Affiliated hospital" means a hospital who gave undertaking to this effect that such hospital shall provide facilities to the Institute as required for running Paramedical course.

If at any time,-

- (i) ownership or management of the Parent hospital is transferred to any other organization or in case Affiliated hospital withdraws the undertaking, given in favour of institute,
- (ii) Parent hospital gives undertaking in favour of another institute to become as Affiliated hospital or any Affiliated hospital gives undertaking in favour of more than one institute,

the recognition granted to such institute shall stand withdrawn

16. TEACHING FACILITIES:-

Proposed names of teaching personnel (consent letters to be enclosed).

S. Name of No teaching	3		ty Year of Name of the Passing Instt. / University	Reg. No.	Teaching Exp.		cp.	Date of Joining			
	lacuity	faculty University		UG	PG	Total					
				ur.abi		ing run	la se		1 1 4 1 1	neht	

Required Teaching Staff documents:-

- 1. Appointment letter.
- 2. Joining report / consent letter
- 3. Educational qualification Certificate.
- 4. Past Experience letter, Appointment letter & Reliving letter.
- 5. ID Proof

17. LIST OF NON-TECHING STAFF:-

	Name of Staff	Designation	Qualification	Board/university	Date of Joining
1101			100 E		

18.Intructional (instruments)facilities available.....

(Institute must have own equipment)

- 19. D. D. of Rs. 30000/- in favour of Registrar, Rajasthan Paramedical Council payable at Jaipur of any nationalized bank or transaction number and ID if paid through online, for Inspection fee for per course.
- 20.D.D. of Rs. 500/- in favour of Registrar, Rajasthan Paramedical Council, payable at Jaipur of any nationalized bank or transaction number and ID if paid through online, as Application Fee for per course.

21. Any Other information.

We request you kindly to arrange for Inspection at your earliest. Thanking You

Yours faithfully

List of Annexures

Authorised Signatory
With name, complete address,
Mobile no. and email.

DECLARATION

(By management)
(On 10 rupees non judicial stamp)

I	S/o,D/o or W/o						
declar	e that	all the	e documents	8	information	submitted	d

S.No.	Particulars *	Yes	No
1	Whether the institution has own Building.		
2	Principal Office	**********	I

- 1. Library Facilities are available as per noms (mention Yes or No)
- 12. Clinical Facilities are available as per noms (please sign in Yes or No column only):-

S. No.	Particulars	Yes		No
1 bot Bot chis	Name of the Parent/Own Hospital* ((Minimum 50 bedded Hospital) No. of Beds distribution enclosed)	numera Hadukai Hadukai Hadukai		rous efens Stata Noon
	Proof of the Hospital being a Parent Hospital*		que goig	one Sin
	Pollution control board certificate of the			

13. Teaching Facilities available:-

	Name of the faculty	Qualification	Teaching Experience	Date Joining	of Part time/Full
HO					time

14. Required Equipments as per noms are available (Right only Yes or No)

(Purchase bills of the equipments should be verified by the inspector)

15. Any other information (No recommendation to be given)

Signature Name of the inspector Date

Schedule-1 [see regulation 41(2)] Syllabus of Diploma in Physiotherapy FIRST YEAR

PAPER I

General Anatomy: Introduction- Anatomical terms and position of body, types of tissues, tendon cartilage, muscles-structure of different muscles, classification of voluntary & involuntary muscles & its origin & insertion, Bones-composition and function, classification of various terms, blood and nerve supply of bones. Osteology-all bones. Joints - classification of joints & movement, blood supply. Nervous system - nerve cell synapse & reflex arc. Gross anatomy of heart & lungs, digestive system, kidney & its function, urethra, urinary bladder. Outline of male & female genital organs.

General Physiology: Cell structure & fluid compartments. Bloodcomposition structure, formation and function of RBC, WBC and platelets, coagulation and its effect bleeding, clotting time, Blood

Cardiovascular system- structre, properties of heart, muscles and nerve supply of heart, structure and fuction of artries, arterioles, capillaries & veins, cardiac cycle, blood pressure and its regulation and physiological variation.

Respiratory system - mechanism of respiration, intraplural and intrapulmonary pressure, o & co. carriage and their exchange in tissue and lungs.

Digestive system - Gastric secretion & its mechanism of secretion & functions, pancreatic juice and its functions, structure, secretion & function of liver. Glands of endocrines.

Reproductive system- Male & female sex hormones and their functions spermatogenesis, menses cycle & contraception, pregnancy.

Excretory system - structure and function of kidney, renal circulation, physiology of mieturation.

PAPER II

Muscles & nerves: types of muscles, mechanics of muscular contraction, thermal and chemical changes, isotonic isometric contractions, action potential, motor unit & its properties, classification of nerve fibers, of degeneration & regeneration of nerve fibre.

Nervous system: types & properties of receptors, structure of

synapse, reflex and its properties, complete section of spinal cord, upper & lower motor neurons paralysis, A.N.S.

Speech and its disorder, features of eyes, errors of refractions, ear. Practical: Anatomy & physiology – Osteology and different of body & muscle, Total RBC & WBC Count, TLC, DLC, ESR, Blood Grouping, preparation & staining of blood smears.

Pathology & psychology:

Pathology: Aims and objects of study of pathology, various causes of disease and approach to laboratory and study diagnosis of process of disease, brief outline of sick cell, degeneration, neurosis, gangrene etc.

Inflammation, definition, cascular and cellur exudates and pus formation, phenomenon of tissue changes, difference between acute and chronic inflammation, repair- bone skin, nerves and muscle etc. circulatory disturbance with emphasis on ischemia, thrombosis embolism, infection, tuberculosis, syphilis, leprosy, fungal infection. Disease of joints and bones, brief out of blood disorder and parasite infection. Regional pathology of heart, blood vessels, female reproductive system, nervous system, the bone, muscles and skin etc.

Psychology: Nature and scope of social psychology, psylogical groups and their classification. Social action of the individual, development imilestone, old child, adult physhology, behavioral problems, mental health.

SECOND YEAR

PAPER I

Biomechanics & Movement

Analysis of joint movement & muscle action- normal joint range & variation within normal limits, agonists, antagonist, fixators, synergistic, isotonic & isometric contraction, group action of muscle. Fundamental position of moving limbs, back, trunk & hand, analysis of pattern of movement including rolling, laying to sitting, to standing, bending, hanging, kneeling, classification, definition and effects of active, passive and resisted movements.

Massage manipulation- definition, classification and contraindication, effect of massage in general and specific. Techniques of different manipulation of massage on different parts of the body, mobilization of the soft tissue and joints. Goniometry in details and muscle testing, procedure, normal muscle grade and

power.

Gravity, centre of gravity, line of gravity, equilibrium, base and balance friction, livers axes and planes, velocity, acceleration, mature and effect of force, Newton's low of motion, achemedies principle.

Orthopaedica: - Fracture and dislocation, soft tissue injuries, fracture of vertebra and bones, pathology and fracture and repair of bones, union, non union, delayed union, fibrous union, dislocation of shoulder, elbow, hip, knee. Soft tissue injuries- Rapture, sprain of muscle, tendon and ligament. Deformity common foot deformity, conjenital tortoicolis, spina bifida & occulta. Scoluiosis, kyphosis, lordosis, flat back, claw han. Mallet figure, contracture, common sites of amputation, advantage & disadvantage, amputation of upper and lower extremity, osteoarthritis, pott's spine, ostemylatis, teno synovitis, osteoporosis.

PAPER II

Burns : Classification, early & late complication, management and reconstructive surgery

Opthalmology-errors of refraction, conjunctivitis, cataract, hysterical blindness, E.N.T.-Functional affonia and deafness. Electrotherapy & hydrotherapy

Electrotherapy: Low frequency current, direct & A.C. current, production of direct and modifies current and their effect on nerves and muscle. Principle of working of interrupted and surged direct currents, application and uses in various condition faradic- I.D.C. test, nerve conduction test, S.D. curve and its interruption, principle of production, elementary knowledge of T.E.N.S., I.F.T. ultra sound, short wave diathermy, infra-red radiation, ultra-violet rays.

Hydrotherapy: physical and therapeutic effect of exercise in warm water, principle of treatment, byoyancy, starting position, dangers and precautions, pool tank and accessory equipment.

Physiotherapy In General Medicine & Surgery
Physiotherapy in acute, chronic, supurative inflammation, paralytic oedema, osteoarthritis- generalized, degenerative & traumatic spondylosis and disorder, rheumatoid arthritis, ankylosing spodilytis, burstis physio theraphy in asthama, brachatasis, pneumonia, carcinoma of respiratory tract, hypertension, thuombosis, ambolism physiotherapy in hemiplagia, paraplegia, C.P., cerebral attacxsia, peripheral nerve lession, neuritis and

neuralgia, sciatics, facial plasy, poliomyelitis, meningitis, encephalitis, myopathles, special problems of paediatrics and elederly.

Pre and post operative physiotherapy in gynecological problem, abodominal incision, hernia, appendectomy, spleenectomy, nephroctomy, pre and post natal training. Complication of pregnancy, stress incontinence, pelvic inflammatory conditions. Physiotherapy in thoracic surgery-lobectomy, pneumanectomy, thractomy, common operation of heart and physiotherapy. Common physiotherapy in spinal cord surgery. Pre and post operative physio in plastic surgery. Pre and post operative physio in common fracture of orthopedics, amputation, galt training, valkman's ischemic contracture.

Schedule-2

[see regulation 41(2)] Syllabus of Diploma in Medical Laboratory Technology FIRST YEAR

PAPER I

Applied anatomy, physiology and bio-chemistry of human body
PAPER II

General Laboratory Techiques

- (a) Microscope- its components. Uses and care.
- (b) Preparation and handling of glass-ware such as blowing and bending, marking capillary pipette, cleaning and sterilisation etc.
- (c) Balance Its components, uses and care.
- (d) Solution and reagents. Making of
- (e) Distillation of water and alcohol.
- (f) Maintenance of machine- their uses and care. Refrigerator, Incubators, Centrifuge, Hot air ovens, Autoclave etc.
- (g) Stock keeping and indexing of materials.
- (h) Record keeping of laboratory work.

SECOND YEAR

PAPER I

Clinic Pathology

- 1. Collection, preservation and transportation of materials.
- 2. Preparation of stains and solutions.
- 3. Various routine staining methods- Leishman's Gram's, Methylene blue, Albert's ziehl Nelson and Giemsa's Examination of urine physical chemical and Microscopic.
- 4. Examination of Faeces- Physical occult blood, microscopic.
- 5. Examination of sputum general appearance, Microscopic.
- 6. Blood examination collection of specimen, making of thick and wet films, haemoglobin estimation; R.B.C. and W.B.C. count staining of blood slides with leishman's stain and special stains normal and abnormal cells in blood; recticulocyte count; differential W.B.C. count; platelet count, prothrombin time; sternal marrow smear; P.C.V.; M.P.; Microfilaria; blood grouping and matching; E.S.R.; bleeding and coagulation time; red cell fragility tests.
- 7. Seminal fluid examination-count and smear study.

Microbiology And Serology

- 1.General glass ware and care, cleaning, sterilisation, pipette making, anaerobic jars, pumps, centrifuges, staining of smears, types of loops, handling of bacteria, etc. and use of filter.
- 2. Media preparation nutrient broth, nutrient agar, blood agar, D.C.A., L.L.BA., L.J. Dorsels eggs, loeffler's etc.
- 3. Cultural methods plate, fluids, slopes, spreading, anaerobic culture.
- 4. Methods for study of motility, biochemical reactions and slide and tube agglutination.

Bacteriological examinations of pus, C.S.F., Fluids, Swabs, tissues, maintenance of stock culture.

Serlogy:

Agglutination tests, widal tests, Weil Felix, Paul Bunnuel, cold agglutination, preparation of antigen, suspensions and techniques.

V.D.R.L., antigen preparation and its interpretation or latex test.

PAPER II

Clinical Biochemistry

(a) Care of glassware, titration making of standard solutions uses

of graduated glass ware, calorimetry - turbidimetry, P.H. estimation.

(b) Chemical Examination. (i) C.S.F. (ii) Blood Sugar, Urea, N.P.N. Protein. (iii) Gastric Analysis, (iv) Function tests of kidney and liver, blood urea, urine urea, van den bergh, leteric index and turbidity tests etc.

Blood Bank

- (a) Equipments, preparation of pyrogen free distilled water and
- (b) Use of various forms in blood bank.
- (c) Grouping of blood. And the state of the
- (d) Matching of blood.
- (e) Collection of blood from donors.
- (f) Preservation solutions.
- (g) Transfusion of blood, indexing and record keeping.
- (h) HIV.

_Histopathology And Museum

- (a) Micro tomes freezing, rotary and rocking.
- (b) Preparation of stains.
- (c) Tissue fixation, tissue processing, tissue embedding.
- (d) Section cutting staining, Haematoxylin and eosin stain special stains for fat, recticulin, nerve and glycogen etc.

Museum Techiques-Framing of tissues, making frames, selection of jars, making general and special preservation and solution, mounting of tissues, maintenance of tissues appearances, colour schemes slides and specimen indexing, etc.

Schedule-3 [see regulation 41(2)] Syllabus of Diploma in MRI Technology FIRST YEAR

- 1. Anatomy
- 2. Radiological Anatomy
- 3. Physics of MRI
- 4. Indication and Contraindication of MRI

Cartilages, Bones muscles, Skeletal System, Function of

Descriptive

used osteology, Joints of Skeleton /

myology/orbit/pns/fac

Bones of more bank and the second sec

e/ neck

Skeleton, Classification

Appendicular

bones,

terms

Performing head acres
ASSIST in perform

Skeleton. Bone of limb. Vertebra, Sacrum, Coccyx. Sternum, Ribs.Bones of skull, sutures of skull, Paranasal sinuses, Facial bones. Abdominal Regions, Solid organs of abdomen/ Excretory organs, G.I.T. The urinary system, Mediastinum, Heart, Aorta. Respiratory System. Reproductive System. Nervous System .
hepatobiliary/ lymphatic /vascular system

75 hrs.

Radiological 25 marks

Anatomy MRI slices—axial coronal and sagittal sections of human

body

Internal assessment 25 marks

Diploma in M.R.I. Technician

PAPER) Paper

Study Paper 300 hours 3 hrs

FIRST YEAR(2nd Duration of Topics Duration of Marks 100

marks

30 hrs

Basic Concepts- What is 10 marks matter, anatomic structure, isotopes, ions specific gravity, temperature scales, electro, magnetic radiation. Electricity & Magnetism-What is electrostatics, inverse square law, types of bonds, electrical field and electrical potential, electrificion possible, conductors and insulators,

Fast imaging sequences Gradient fields and gradient coils
Summary of MR process Major components of

· MR Sequences

an MRI
Magnets HELIUM
SUPERCONDUCTION
1.5TESLA/3TESLA/8TESL

A Self test

75 hrs Indications and 25 marks
Contraindication of MRI
(Do's & Don't of MRI)

Internal assessment

25 marks

PRACTICAL Topics Duration of Marks **Duration of Study** Paper II 600 hours 3 hrs 100 marks Patient Prerequisites, Patient 25 marks Postitioning, Patient Consent M.R.I Filming, Dark Room Indication & Contraindication of 25 marks MRI Contrast reaction management with IV Fluid: 02 /steroids etc.

Performing head and spine MRI 25 marks ASSIST in performing body and 25 marks Musculoskeletal scans

Diploma in M.R.I. Technician

SECOND YEAR (Duration of Topics Duration Mark 1ST PAPER) Study of Paper

Paper

I 300 hours 3 hrs 100 marks

ANATOMY 150 hrs

Nervous System 35 marks (C.N.S., P.N.S., A.N.S.) Brain, Cerebrum, Basal Ganglia, Thalamus. Hypothalamus, Ventricles, CerebroSpinal Fluid and pathway, Brain Stem, Cerebellum, Spinal Cord. GIT Digestive System,

Stem, Cerebellum, Spinal Cord. GIT Digestive System, Alimentary Tract, , Pharynx, Mesentery Oesophagus. Stomach, Small

Stomach, Small Intestine, Large Intestine, Salivary Glands

FACE/ORBIT/PNS
COURSE OF
MAJOR VESSELS
AND

LYMPHATICS
MAJOR NODES
Neck and Larynx,

Hepatobiliary
Bones and muscles
of limbs
Circulatory System,
Heart, Pulmonary
Circulation, Systemic

Circulation, Aorta. Respiratory System,

Nose, Pharynx,

Ureters. Urinary Bladder, Diploma in M.R.L. Techn Urethra.Orbit, Occipital Bone, Parietal Bone, Temporal Bone, Frontal Bone Frontal Bone, Sphenoid Bone, Ethmoid Bone, Vertebral Column,

90 hours Slice Anatomy-

20 marks Brain, Neck Thorax, Abdomen, Pituitary, Orbit, P.N.S., Limbs, Vertebra in C.T. Scan. Axial, Coronal

& Saggital. Anatomy of Body---Radiological

Anatomy.

MRI safety, Do's and 10 marks

don't's of MRI Indication and contraindication of

MRI

Non Ionic & Ionic

Contrast NEGATIVE POSITIVE CONTRAST Contrast Reaction and its Management. OF

ROUTES

CONTRAST

Radiation Hazards 10 marks

and protection

Internal Assessment.

30 hours

30 hours

25

Diploma in M.R.I. Technician

100 marks

30 marks

SECOND YEAR (2nd PAPER) Paper HE 120 hrs

Duration of Study Topics Duration Marks of Paper

3 hrs

BASICS AND PHYSICS Magnetisation Properties, Types of Magnetic characteristics of the Nucleus, Nuclear Magnetic properties of the elements, Larmor Equation, Geometric Orientation. Resonance and excitation, Free induction decay: T2 Relaxation, Return of Equilibrium: T1 Relaxation, Comparison of T1 and T2. Angiography magnetization transfer contrast, Time of flight (TOF)

CONCEPTS

300 hours

Spin echo, Fast spin echo, Parts of MRI, Artifacts, Machine dependent artifacts, Motion artifacts, Motion artifacts, Chemical shift artifacts, Magnet, Resistive magnet, Superconductive magnet. Permanent Magnet, Safety and Bio-effects. Pulse sequences, Time of repetition and partial saturation- (i) T1 Weighting (ii) Spin (proton density) weighting (iii) T2 weighting (iv) Inversion recovery (v) Short tau inversion recovery (STIR) (vi) Fluid attenuated Inversion recovery (FLAIR). Gradient recall echo (GRE), Perfusion weighted MRI, Diffusion weighted Magnetization transfer contrast. MRS, Tractography, DTI Patient preparation and

60 hrs

75 hrs 45 hrs

Pathologies as seen on MRI 15 marks Recent Advances - 3T MRI, MR 15 marks angio, MRCP, MRS,

Tractography, DTI

positioning

Internal assessment	salgeT Repris	25 mark	0 1141000	
PRACTICAL	Topics	Duration of	Marks	
Duration of Study	System	Paper	Walks	
600 hours	3 hrs	100 marks		
Pediatric MRI	10 marks 25 marks			
Performing Contrast F MR				
MRCP, MR angiograp	phy.	5 marks		
Performing body MR	25 marks 25 marks			
Performing musculosk				
Assisting MRS	SA CI VALLE	10 marks		

Schedule-4 [see regulation 41(2)]

Syllabus of Diploma in Medical X-Ray Technology

Anatomy: General Introduction to Human Anatomy:

- Definition of Anatomy
- Definition of topographic term/terms used to describe the body.
- Cells and Tissues of Body

Anatomical Description of:

- Skin
- Osteology (Bone structure, individual bones)
- Joint structure joints of upper and limbs, ligaments, Fascia and 13ursse.
- Musulo skeletal (upper and lower extremities).
- Cardiovascular system
- Lymphatic system (Structure, Function, Lymphatic glands)
- Respiratory system (Respiratory passages and organs)
- Digestive system (Elementary camel structure)
- Urogenital system (male and Female Organs Kidney structure)
- Endocrine system (name, Location and Functional)
- Sensing organs (Eye, Nose and Ear)
- Central Nervous system

Physiology (Function and Mechanism of):

- Digestion
 - Respiratory
 - Circulation

- Excretion lands and well a supposed and the lander
- Nervous System
- Role of Endocrine glands
- Physiology of thermoregulation
- Physiology of Blood
- Reproduction (genitor- urinary system)
- Vision, Hearing and Speech.

Biochemistry:

- Definition of Biochemistry
- Elementary ideas/ overview of the following:

General metabolism of

- Carbohydrates
- Lipids
- Proteins

Different types of Enzymes and their Functions. Microbiology:

- Microscope and Microscopy
- Introduction- Micro organism- Classification
- Epidemiology
- Sample collection, transportation and preservation, to maintain aseptic condition

Pathology:

Introduction to pathology- Definition. Etioolgy and Classification of:

- Inflammatory
- Neoplastie
- Metabolic
- Congenital

FIRST YEAR

PARER-1

1. Anatomy:

Demonstration of Surface Markings of Organs: Heart, Lungs, Liver, Spleen, Stomach, Important bony landmarks, Arteries, Veins, Nerves, Joints Arteries:

Carotid, Brachial, Radial, Anterior Tibal Veins: Juglar, Cubital Lateral poplitial and Sciatic Bony Preminences Clavicle, Anterior !Iliac Crest, Posterror Illiac Crest, Supra sternal Notch,. Sternum, Ribs, Verteberal Coloumn, Anterior and Super'Iliac spine Pubi9c- symphisis, Medical and Lateral Malleolres, Patela, Tibal tubercle Joints and Their Movements:

- Ball& Socket joints- shoulder and hip joints, (Elbow and Knee joints).
- Microbiological Study of Microscope: Simple Compound

• Their different parts and functions

• Visit to microbiology Lab for culture media and culture of stool, urine, blood and demonstration.

Joints and Their Movements:

- Cell (Examination of mucous scraping). methods a planned
- Skin, connective tissues, bone, cartilage, nervous tissues.

 Muscle:
- Skeletal, cardiac, (striated, non-striated and cardiac 'nudes) Identification of Long Bones, Hip Bones, Vertebra, Ribs, scapula, Mendible, clavicle, skull.
 - Demonstration of the in the interior of thorax with organs in (In model) such as lungs, trachea, heart, aorata and venacava, oesophagus, diaphragm.
 - Demonstration of interior of abdomen with organs in situ such stomach, liver, spleen, pancreas, gall bladder, intestine, colon and kidneys and ureter (In model).
- Demonstration of pelvic organs such as bidder, rectum
 In Female:

Ovaries, Phalopean tubes, Uterus and Vagina In Males: Tests, Vassdeference, Seminal vesicles, prostate, Urethera, Penis Demonstration of brain, spinal cord and spinal nerve Demonstration of sensory organs —eye, ear, surface marking of important organs like heart liver spleen, stomach (Demonstration of organ should be done in modes supplemented by vsits to Museums of medical college .However it must be supplemented by dissecting frog/rabbit/rate/gimping).

2. Physiology:

- Study of Microsoft (Already covered in Anatomy).
- Preparation of blood smear, leishman's staining identification of R.B.C., Different types of W.B.C. and differential count of W.B.C.
- Pulse recording, temperature recording, respiratory and

maintenance of T.P.B. chart.

- Effective of exercise of T.P.R. (This may be done amongst the class students themselves).
- Demonstration of blood pressure instrument (Mercurial type) and recording of blood pressure.

3. Pathology; the lead approximates or interlocking octilities and approximate and approximate

• Visit to pathological Museum

4. Biochemistry: The Lenth do Red La mid (1) and points V

• Familiarity with Laboratory glassware's.

Basic Techniques: Alberton and Jailes on the Market Basic Techniques:

- Methods of Measuring Liquids
- Methods of weighing
- Cleaning of Glassware
- Separation of solids from Liquids.

PAPER-II

General Physics

- 1. Elementary idea of thermo ionic emission, Electron- idea of mass and nature of charge, coulomb' làw, Electric field unit of potential.
- 2. Onm;s lwe, unit of resistance, potential and combination of resistance in series and parallel.

Fuse, units of electric power, earthing of electrical equipment.

Magnetic fields, lines of fore, field pattern due to a straight current carrying conductor, coil carruing current, electromagnet, construction and working of Galvanometer, voltameter and ammeter. (moving coil type and moving magnet type). Basic physics for magnetic resonance imaging including natural and super conducting magnetic. Basic physics for ultrasound, elementary knowledge for generating of ultrasound waves, their nature and inter actions with body tisssues.

General Physics:

- Heat and method of transference of heat condensers, inductance and impedance
- A.0 and D.0 currents- effective current. RMS value, peak value.

- Electromagnetic induction —Laws, fields, influence.
- Transformers- principles, construction, losses of step down and High transformers.
- Diode valves and its use in rectifier's solid state rectifiers. Its verifying circuits used circuits used in X- ray tube, X-ray certificate, interlocking certificates.

Structure of Atom, Nucleus and orbital Electrons.

PRACTICAL

- Verfication of Ohm's Law.
- Verifythe rules of series and paralles comination of resistances.
- Study of the potential drop across different resistance.'
- Determine the filed along the axis of a coil carrying current.
- .Study the characteristic curve of a diode value.
- Study the impedance of a coiled in A.C. and D.C.
- To find the transformation ratio of a transformer.

To construct a rectifying circuit with the help of

- Diode value
- Transistors
- To study the nature of sound waves (sonometer)

SECOND YEAR

PAPER-I

Radiation Physics

- Various used for measuring radiation Roentgen rad and rem.
- Ionization chambers, G. M. counter and scintillation counter, interaction of X-ray with matter.
- Quality and quantity of X-rays, HVT, linear adsorption coefficient, Grid, cones and filters.
 - Inverse square law, scattered radiations and appliances used to reduce it.

Radio activity:

Half life, Decay factor, Details about radium, cobalt and cesium,

• Doses- dose and dose rate, exposure dose, exit dose, surface dose isotope charts and their uses, Radiation Hazards-ways of protection for public patient, film badge, pocket

ionization chamber, maximum permissible dose, personal monitoring tag, TLD.

PRACTICAL (RADLATION PHYSICS)

- Verification of inverse square law.
- Calibration of a X- Ray machine.
- To study the affect of Kv and mass.
- Find out the HVT of a given beam.
- To check the lead apron for any crack.
- Find out whether the glass in the screen is lead glass or ordinary glass.
- To find out the depth dose at a certain depth of a X- ray beam.
- To survey the X-ray control for radiation.
- Demonstration that the intensifying edict of X- ray intensifying screen is dues to light produced by flour screen and not due to the X-ray.
- Demonstrate the use of Grid/ potter bucky diaphragm and radiographic contrast.
- Demonstrate effect of improper of X- ray tube.
- Verification of optical and radiation field coincidence.
- Effect of direct X- ray exposure to the personnel monitoring device like TLD or Film badge.

PAPER-11

Introduction to Radiology and Radiological Services and Anatomy Physiology and Related Pathology.

Introduction

I. Introduction to radiology and Radiological services: Structure of body — cells- tissue

Musculo- skeletal system, Cardiovascular system Lymphatic System glands,

Thoracic duct. Digestive System Intestines- Gall- bladder-

Respiratory System

Skull- vertebral column shoulder griddle Bones of upper extremities Bones of lower extremities, gornit MusclesHeart-blood- arteries- veins. Circulation of Lymph, Lymph Mouth — esophagus- stomach — small large intestines- spleen liver pancreas.

Nose & larynx- Trachea- lungs.

Nervous System And nerves. Reproductive System Urinary System 'Skin Endocrine System- supra- renal glands.Eye

PRACTICAL

- - Identification of the various part
- and structures in human body on charts and models Identification of bones of skeleton.
- Surface marking of human body.
- Identification of Bones including radiographic Anatomy and soft tissues parts on X-Ray films
- Visit to pathology museum for identification of common lesions.
- Visit to Anatomy museum for identification of the human body.
- Identification of cross sectional anatomy of major or

Schedule-5 [see regulation 41(2)] Syllabus of Diploma in Dental Mechanic Technology FIRST YEAR

PAPER I

1. Applied Physics:

Specific gravity density, properties of matter, including cohesion, capillarity, surface tension viscosity, elasticity, diffusion and osmosis.

Heat: temperature and its measurements thermometers and Pyrometers. General account of expansion by heat of solids, liquids and gases, thermostats, pressure gas and hydraulic. Boyle's and Charles Laws. Unit of heat, thermal capacity and specific Heat, Change of stage: Latent heat: melting Point. Properties of vapors, conduction, convection and radiation. Principles of electrotechnology applied to dental work room.

Exercises/ Demonstrations:

- Balance- weighing correct to a milligram
- Determination of specific gravity by the principle of Archimedes (Solids and Liquids).

- Determination of Surface tension of liquid by capillary rise.
- Determination of Linear expansion of solids (level methods).
- Determination of the specific heats of solids and liquids by the method of mixtures.
- Small motors- constructional features and characteristics (Demonstration only)
- Determination of the electro- chemical equivalent of copper.

Applied Mechanics:

Parallelogram and triangle of forces. Moments, Couples, Centre of gravity, Principles of lever and cantilever work, Energy, Power, Friction, Inclined plane, Screw Strees, heating Strain, Torsion, Bending movements, Strength and stiffness of materials.

Exercises/ Demonstrations:

Verification of the parallelogram and triangle laws of forces.

Inclined plane Determination of mechanical advantage Determination of Young's Modulus by bending of beams. Applied Chemistry:

Distinction between physical and chemical change; elements, mixtures and compounds: position of the atmosphere; oxygen oxides; burning and rusting; water solvent properties and rusting, water solvent properties crystnillization; action of water on metals; composition of water hydrogen; laws of chemical; meaning of chemical symbols valency; simple chemical equations; acids, bases and

Electrolysis, The ionic theory of solution. The electro potential series, electroplating, general characteristics of the metals including an elementary study of the common metals and alloys with special reference alloys with special reference to those used in the dental work room.

Alcohol, ethers adlehydes and ketones, futty acids and their more important derivatives, Simple treatment of carbohydrates, fats and proteins, benzens and its homologues characteristics of aromatic substances. Synthetic resins and plastics used in Dentistry.

Exercises/ Demonstrations:

Tests for acids and alkalis radicals.

Acid- base titration- Neutralisation of acids with. Titration

of N/10 NaOH with N/10 H₂SO₄ Phenolphthalein or methyl red as indicator 2⁴

Total Nitrogen determination in In – oragnic nitrogenous materials, digestion and distillation.

Total Nitrogen determination in In- organic (ammonical) solutions (or salts) by direct distillation with Mg.

Determination of Phosphorus in in- oraganic materials by prexipitation.

Determination of Potassium in aqueous solution by per chlorate method.

Electrolytic deposition (electrolysis and electroplating of metals).

- (c) Deposition of Copper by electrolysis of copper sulphate solution.
- (d) Calculation of E. C. E.

PAPER II

Dental Mechanics (Primery):

Bite blocks:- base plates and wax rims.

Articulators: classification, daily uses, and care of articulators.

Adjustments, mounting of casts.

Articulation, occlusal plan, protrusive balance, working bite, balancing bite, curve of space, compensating curve, lateral curve.

Principles of selection of teeth.

Setting of teeth and wax finishing.

Flasking, dewaxing, packing, curing and deflasking.

Finishing and polishing of dentures.

Additions, repairs, relining and revasing of dentures.

Immediate denture construction.

Making of acrylic teeth.

Kennedy's classification of partial dentures.

Principles of partial denture, clasp surveyor, surveying, path of insertion and removal. Establishment of clasp seat. Clasp's parts, classification, function and reciprocation.

Principles of wire bending, preparation of wrought clasps, occlusal rests and lingual bars.

Applied Oral Anatomy:

Elementary anatomy and structure of denture/ bearing area.

Human dentition and occlusion

Functions of teeth and morphology of crowns of teeth

Muscles of mastication and facial expression
Movements of tempera- mandible joint
Exercise/ Demonstrations

Tooth Carving in wax and plaster. (Crown and root, scale and enlarged models).

SECOND YEAR

PAPER I

Dental mechanics

Casting machines: Centrifugal and pressure casting machines, furnaces, principles of casting.

Casting techniques of partial denture (Skeletal) clasps, bars, occlusion rest.

Setting of teeth and completion of dentures on metal skeletons.

Mechanical principles of orthodontic appliances, anchorage, force, tissue changes and retention.

Stainless steel wire-preparation of clasps, springs and arch wires for orthodontic appliances.

Use of various types of expansion screws.

Designing – implant supported prosthesis (if facilities available for dental implants.

Ceramic, laminates and veneers.

Fabricating:- Maxillofacial prosthesis such as eye, nose ear, cheek, obturater and splint.

Indirect resin restoration preparation techniques.

Porcelain firing techniques:

Preparation of removable orthodontic appliances, activators. Retention appliances and oral screen.

Construction of fixed orthodontic appliances, bands, tubed and arches.

Soldering and spot welding- soldering of claps, tags, strengtheners and lingual bars.

Inlays and Crowns- classification and construction facing & backings.

Casting procedures

Principles of bridge work- types of abutments – abutments and pontics- construction of bridges using porcelain and acrylic pontics.

PAPER II

Dental Material And Metallurgy
Dental Materials:

Composition, properties, uses, advantages & disadvantages of the following materials:-

Plaster of paris: dental stone, die stone

Investment materials,

Tray materials,

Denture base materials, both foe cold curing, tooth materials waxes.

base plates, base plates, zinc oxide, zinc oxide,

dental luting cements

dental ceramics and indirect resin restoration materials.

Dental Metallurgy:

Metallurgical terms, making the desired to the second terms.

General

Study of:

(a). Metals used in dentistry particularly gold, solver, copper, aluminum.

(b). Alloys used in dentistry particularly, casting gold wrought gold

Heat treatment-annealing and tempering.

Solders, fluces, anti fluxes.

Tarnish and corrosion.

Eclectic deposition.

Dental implant materials

Basic Knowledge of Computers
General office routine economics, record-keeping services, professional referrals

And compuring skill;

Record keeping of materials indented and audit of use.

Receipt and dispatch of work from clinicians.

Practical Examinations

The practical examination shell includes, but not necessarily limited to the following

I. Primary examination

a Model preparation, beading, boxing of modelsClass I ideal denture setup and wax up

b RPD - surveying of models and wax pattern preparation preparation
Spotting of dental materials

C

Manipulation of lab dental materials d

Final examination

1. Three units FPD __manual_ovimevenq ni agent Model poring Die-preparation
Spacer application Wax pattern
Casting pf a;; meta; bridge

2. Ceramic application on single unit crown (Casted before)

Schedule-6

[see regulation 41(2)]

Syllabus of Diploma in Dental Hygiene Technology dissil oilded to be FIRST YEAR and to entituo tenta

History of demostry and Public Health Services, Dental Health Team in relation to community health. I R344 PAPER I

Dental Hygiene And Oral Prophylaxis (Primary and Final): Definition of Hygiene Objective of Dental Hygiene alabora to nothing of Oral Prophylaxis- Various methods mipropolamon language language On teeth- extrinsic, intrinsic and their management Dental Plaque Flossing technique

Dental calculus Technical knowledge of ultrasonic scaling Brief description and the role of Oral Prophylaxis in

Gingivitis, Periodontitis, Periodontal and Alveolar abscess.

PAPER II

Clinical

Instruments, technique of Oral Prophylaxis Distaining and polishing of teeth Copical application of fluorides Care of oral cavity and appliances during treatment of maxillofacial cases. In the management has so sta

SECOND YEAR

PAPER I

Dental Health Education, Community Public Health Dentistry & Preventive Dentistry: Definition of Health and dental health approximately all the second of t Aims and objectives of Denta; health education

Dental Health and Children

Steps in preventive program, patient counseling

Dental Health Education- Parents, mothers (anti and postnatal), infants pre-chool

Children and grownup Handicapped children

Dental caries- Prevalence and Prevention

Prevention by fluoridation as an angent as to and as

Periodontal diseases.

Saliva in relation to dental health and disease.

Dietary habits and Dental Health

Habits and Malocclusion

Oral Cancer analyst lamed at smolaid to public Brief outline of historical background of Public Health, History of dentistry and Public Health Services. Dental

Health Team in relation to community health.

Technical knowledgr of Topical fluoride Application.

Practical

Preparation of models of jaws and teeth- normal and pathological dental conditions.

Dresigning drawing and painting of posters on dental health education.

Procedure for arranging short talks, skits and features on dental and oral health, visual aids.

Collection of Oral Health realted statistics by conducting a small survey of an area.

PAPER II

Dental Ethics, Jurisprudence And Orientation In Dentistry:

Difference between ethics and law, types of law.

Legal impositions in relation to dental practice code of ethics street to sent the date time on interest.

Unlicensed practice of dentisity

Regulatory and professional organization

Place and function of dental profession in the society discussion of economic problems involved there in.

Social factors in Dental progress, income and living standard of people.

Objective and scope of dentistry.

Dental specialiries.

Basic Knowledge Of Computer

General office routine economics, record- keeping

services, professional referrals and computing skill; Dental Materials

Lectures & Practical

General knowledge of various material used in Dentistry such as impression material, gypsum products, waxes, investing materials and various filling materials, temporary and Permanent cements, orthodontic material and implant materials used in maxillofacial and surgical prosthesis.

Recognition and knowledge of various dental equipment and stores Used in dental establishment. Organization of dental stores, storage and accounting, handing and maintenance of dental items, assembly and minor repair of dental equipment.

Schedule-7 [see regulation 41(2)] Syllabus of Diploma in Operation Theater Technology FIRST YEAR

- 1. Anatomy & Physiology
- 2. Microbiology, Elementary Pathology
- 3. Hygiene, Nutrition, Nutritional Disease
- 4. Biomedical Waste Mgt
- 5. First Aid
- 6. Disaster Mgt
- 7. Elementary Nsg
- 8. General Pharmacology
- 9. Human Relations
- 10. Community Health Nsg & Communicable Diseases
- 11. Hygiene chemicals and its uses
- 12. Equipment management

SECOND YEAR

Care of patient undergoing surgery (Pre and Intra operative). after care of Equipment. Anaesthesia drugs, Equipment & special operation theatre tray set up.

Infection control in operation theatre, Role of the Theatre Assistant.

Surgical procedures and monitoring Operation Theatre Ethics, safety for Operation room. Operation Theatre Techniques. surgical procedures (disinfection on sterilization) care of patient in Emergencies

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		Human relations		5	
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Practical	600	Essential Critical Care and nursing skills (Advanced procedure)	03 HRS	75	100
		INTERNAL ASSESMENT		25	AM

Schedule-8 [see regulation 41(2)] Syllabus of Diploma in Dialysis Technology FIRST YEAR

PAPERI

62(70)

- 1. Applied anatomy, physiology and bio chemistry of human body.
- 2. Structure and function of kidney (Anatomy & Physiology)
- 3- Introduction of renal diseases.
- 4- Renal failure- Acute Chronic and immediate management.
- 5- History of dialysis
- 6- Vascular access for dialysis.

PAPER II

- 1- Principles and types of dialysis.
- 2- Anticoagulation: Principles and problems.
- 3- Haemodialysis Machine: Working Principles and maintenance.

- 4- Water Treatment Plant: Working Principles and maintenance.
- 5- Complication and management of complication during dialysis.
- 6- Assessment of adequacy of dialysis.
- 7- Reuse of dialysis.
- 8- Sterile techniques in dialysis.
- 9- Emergencies in dialysis.

SECOND YEAR

PAPER I

- 1. Basics of renal Anatomy & physiology Acute Renal Failure/Chronic renal failure.
- 2. Initiation of dialysis Hemodialysis.
- 3. Physiological principle and urea kinetic Modeling.
- 4. Haemodialysis Apparatus.
- 5. Physiology of peritoneal dialysis.
- 6. Apparatus of peritoneal dialysis.
- 7. Peritoneal access devices

PAPER II

- 1. Vascular access for Haemodialysis.
- 2. Acute Haemodialysis prescription. 270 TO m atmonsq to mongate A
- 3. Chronic Haemodialysis prescription.
- 4. Complication during Haemodialysis.
- 5. Dialysis reuse.
- 6. Anticoagulation.
- 7. Use of dialysis and Hem perfusion in treatment of poisoning.
- 8. Acute peritoneal dialysis prescription.
- 9. Adequacy of peritoneal dialysis chronic peritoneal Dialysis.
- 10. Prescription assessing peritoneal Ultrailtration.
- 11. Solute transport and volume status.
- 12. Peritonitis and exit site infection. 44 Millians and exit site infection.

PRACTICAL

- 1. Nutrition
- 2. Practical Demonstration of peritoneal Dialysis.
- 3. Practical Demonstration of Hemodialysis.
- 4. Practical Demonstration of (continuous ambulatory peritoneal Dialysis) C.A.P.D.

Schedule-9
[see regulation 41(2)]

Syllabus of Diploma in Orthopedic Technology

FIRST YEAR

PAPER I

Applied anatomy, physiology and bio chemistry of human body Detailed antomy of male and female body.

PAPER II

Fractures and Dislocation:

Definition.

fractures healing.

types of fractures.

General principles of treatment,

Common fractures of upper and lower extremities.

SECOND YEAR

PAPER I

3. Physiological principle and area kinetic Mod General principles of Operative procedures and Orthopaedic appliances.

Management of acutely injured: Management of acutely injured:

First aid, transport,

resuscitation methods.

Operation room techniques:

Reception of patients in OT premises, meang are visibomes H 2000A

scrubbing, dressing,

tourniquet and it's application, and a substantial tourniquet and it's application, and a substantial tournique and it's application.

growing,

painting and draping.

Dressing and Dressing room techniques:

Fundamentals of Nursing:

Definition, and kenomes simulated with leanting to years ball Introduction: general environment and cleanliness.

Proper disposal of ward waste,

Beds: bed making, posturing in bed, special beds viz pneumatic, waterbeds. Hygienic care: care of skin, care of hairs and nails, oral hygiene, care of pressure points. Exercise and activity: Principles of good posturing and body behaviour, moving and lifting patient, posture changes assisting patient in attaining ambulatory status.

Promoting urinary and intestinal eliminations: offering urinal, bedpan, observations of urine and faeces. Maintaining nutrition.

Maintaining fluid and electrolyte balance.

Maintenance of input/output records.

Oral intake measures.

History of plaster of Paris,

properties of plaster of Paris,

preparation of plaster of Paris bandages.

different types of slabs and casts,

correct method of Appling slabs and casts,

special plasters – FCB, PTB etc.

plaster removal,

plaster cutter and associated instruments. 2015 25 10 TA VIBROTO

Introduction: general environment and cleanliness.

Dressing table and trolley, drums: preparation contents and maintenance, dressing material: types, preparation, use and sterilization.

Different types of solutions used for dressing viz hydrogen peroxide, providing iodine etc.

Fleetro cardiography - Electro physiology! E

Medicated dressings viz Sofratulley, collagen etc.

Basic principles of bandaging.

PAPER II

OT fumigation and UV lights,

OT table and attachments, autoclaving.

Preparation for Anaesthesia:

Reception of patient, shifting,

positioning for anaesthesia,

Check out procedure.

Sterilisation:

Definition, classification of sterilizing-agents, physical methods of sterilization,

importance of sterilization.

Maintenance of equipments in Operation Theatre:

Surgical diathermy, suction machine, OT table, various lightening systems, fumigation.

Orthopaedic Instruments: Handling and care.

Sutures:

Absorbable: Surgical catgut, collagen sutures, synthetic absorbable etc. Nonabsorbable: Silks, cotton, polyamide, polypropylene, stainless steel etc.

Plaster and plaster techniques:

Schedule-10 [see regulation 41(2)] Syllabus of Diploma in E.C.G. Technology EIRST YEAR 2. Basic aspects with special emphasis on applied LASTAN

Applied anatomy, physiology and bio chemistry of human body. Anatomy or Heart

- Structure of Myocytes
- Coronary Arteries veins
- Nerves, Pericardium
- Relation or heart to thoracic structures/ Mediastinum.

Applied Anatomy, Physiology and Biochem of cardio- vascular system.

Cardio- vascular pathology, clinical pharmacology and cardio-vascular disorders in General.

PAPER II

Electro cardiography –Electro physiology, Einthevernis law 10 (a) Introduction to ECG Reading normal and Abnormal ECG. Cardio pulmonary resuscitation 02

Electricity – principles of AC/DC, Types of Batteries, Power Supply system, Ohm's Law CRT, Tube Multi meter 05

Electro med, equipment standards and safety 05 (a) ECG maintenance of minimum repairs

Applied aspects of ultra sound/ Doppler principles and practice. 05 Defibrillator – indication and indications and Precautions. 05 Computer Sciences: A) Fundamentals:

1. Evolution of computers, contributions of eminent scientists to the field of computers, present day scenario of computer field.

2. Concepts of computer hardware, input/output devices, Central processing unit, main memory, secondary memory etc.

3. Definition of instructions, programmes, software.

4. Software spectrum, system software, business orient applications, R & D type research S/W, real time software etc.

5. Languages- Machine languages, assembly languages, higher level languages 4 GI languages, Natural Languages.

6. Significance of grammar in computer languages
Basic Languages:

1. Input/output commands, assignment, If then, If then R.statement, for next statement, GOTO, on GOTO, STOP interactions, swapping, ascending and descending order also arrays DIM command. Data types: Integer, Real double precision. Files: Data fields, records, data files, program file, sequential files, random files etc.

2. Basic aspects with special emphasis on applied aspects as related to medicine, electricity, sound, pressure, properties of

solids and liquids and magnetism.

Biomechanics

Electronics- Basic principles with special reference to applied aspects as related to medicine.

3. Basic aspects of computers and computer language. The lecture Courses should cover all aspects of computers so as to enable the candidate to do simple programming.

SECOND YEAR

PAPER I

Physiology:

- Depolarization/ Depolarization

- Conic charges- Influx and Efflux of Na^T' KT.

- Calcium in Sarcoplasmic Reticulum.

- Properties - Automaticty, Refractory period etc.

- Normal ECG pattern and Recording.

- Physiological charges in ECG

PAPER II

Arrhythmia's conduction/ abnormalities, pacemaker 05

Stress ECG principles, methods of recording and observations. 05 Halter recording – principles, methods of recording and observations. 03

Introduction to cardiac catheterization.

Pathalogy: Introduction of Rheumatic Heart disease, coronary Artery disease, Pericardial disease, Rest Heart disease, Arrhythmias with Pathogenesis and complications.

Pharmacology:

- -Cardiac Drugs
- Effect of drugs on ECG charges.
- Toxicity of Drugs and ECG charges.

Clinical Cardiology:

- Recording of E.C.G.
- Recording of various leads/ modifications under different clinical conditions.
- Recording at different speed/ Amplitude.
- Recording on single channel machine multi channel machine with analyses.
- Basic interpretation of Myocardial Infarction, Arrhythmia/ Hypertrophy/ Effect of Drugs.
- -Reporting of ECG and ECG changes which need immediate attention/ intervention

Magnetism/Electro-Magnetism/Electromagnetic induction

b) Magnetic field due to a straight and circular coil wire.

c) The AC transformer.

Logic Dagram: pand sometimes beneate memora to stoogs of self.

63(84)

1. Flow-charts symbols and their significance.

2. Variables- simple variables array variables.

Specific To The Speciality:

1) Instrumentation and their circuits as related to the

The candidate should be given training to enable him to identify the defect if any instrument goes out of order and to rectify the simple defects. A property and the same and a second some of the same and the same of the

2) The candidate should be trained in al the technique in the concerned specialty. He should be able to do the procedure independently and know the abnormal and abnormal pattern of the tests.

3) The candidate should be taught basic aspects of anatomy, Physiology of the concerned specialty. Account of diseases states related to various test procedures to be taught.

List Of Praist Of Practical:

1. ECG Recording pediatrics/ Adults patient.

2. Operations, calibrations and servicing of ECG.

3. Recording of Holter/stress ECG.

4. ECG Monitoring of patients in ICCU.

5. Ambulatory B.P. Monitoring.

6. Operations of 2-D Echo/M. Mode Doppler and CFM system its maintenance.

7. Operation of TEE and its maintenance.

- 8. Operations and control of recording system in Cath. Lab.
- 9. Operation of Blood Oxymeter, Ventilator and ABG Machine

10. Operation of Tagarno and its maintenance

11. ICCU Monitoring

12. Control of film processing and developing

13. Other practical in assisting in temporary- Pace-Maker/Permanent Pace maker etc.

Schedule-11 Schedule-11 [see regulation 41(2)] Syllabus of Diploma in Ultrasound Technology FIRST YEAR

PAPER I

General Human Anatomy.

Introduction to physiology
Principles & equipment
Contrast-Media

PAPER II

Applied pathology
Indication and contraindication of MRI
Radiation Hazards and Radiation Protection

SECOND YEAR

PAPER I

Anatomy
Radiological Anatomy
Indication and contraindication of USG
USG physics
ultra sound contrast agent

PAPER II

Pathologies as seen on USG
Contrast Reaction and its Management.
USG patient positioning & preparation
USG procedures
Radiation Hazards Radiation protection contrast-Media
Recent Advancements

Schedule-12 [see regulation 41(2)] Syllabus of Diploma in Blood Bank Technology FIRST YEAR

1. Anatomy & Physiology

	LARBET	FIRST YEAR	A GLIZZ	MAI	RKS
PAPER	DURATIO	SUBJECTS FDURATION	AAUG		
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Est han	OF STUDY	Manual V	PAPER		
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	COUNTY DO	Pathology	,		
PAPER I	acterio per	Hygiene, Hygiene chemicals and its usesNutrition ,Nutritional Disease	03 HRS	10	100

	8.25	Biomedical Waste Mgt			
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=3	7.5	Disaster Mgt	rast-IVIco	Cont	
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This	37.5	General Pharmacols•	n Agitas al Lagitas	10	
the d	11.25	Human relations	03 HRS		
PAPER II	37.5	Community Health	Vinical Line	10	10
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Physical	7.5 .	Equipment management	N. W. O. S. D.	10	
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Joen .	600	Fundamental Nsg	hologie arast R	40	
1 63		- Bed making & Tray setting	Sileg ()	80	
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Practical		First Aid	03 HRS	25	100
		- Bandaging. Casualty Carriage			:101
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1 37 -		Anatom & Mi sick).	PAPER		
	225	Blood Transfusion/ Resuscitation		55	
APER	75	Gen laboratory Method! Eqpt	03 HRS	20	100

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OF REAL PROPERTY.	Fod of /	INTERNAL ASSESMENT		25	
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alle Oceania Treatment		-Bacteriology		1d-512	(TAS
PAPER II	112.5	Haematology -Elementary haematology	03 HRS	Tho	100
Mediciae		-Clinical pathology	lazards.	nois	hey
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2 1 AUGUST	(00)	NOT THE REAL PROPERTY.	ubjetion vbjetop		
Practical	600	Clinical Haematology & ward Work	03 HRS	75	100
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M	it procedur ion:	Cerebrum, Basal Gangha, Chalamus Hypothalamus,			

- 1. Microbiology, Elementary Pathology
- 2. Hygiene, Nutrition. Nutritional Disease
- 3. Biomedical Waste Mgt
- 4. First Aid
- 5. Disaster Mgt
- 6. Elementary Nsg
- 7. General Pharmacology
- 8. Human relations
- 9. Community Health Nsg& Communicable diseases:
- 10. Hygien, e chemicals and its use
- 11. Equipment management

SECOND YEAR

- 1. Blood Transfusion/ Resuscitation.
- 2. Gen laboratory Method / Eqpt
- 3. Microbiology & Serology
 - -Virology
 - -Bacteriology
- 1. Haematology
 - -Elementary haematology
 - -Clinical pathology

Schedule-13 [see regulation 41(2)] Syllabus of Diploma in CT Scan Technology FIRST YEAR

PAPER I

Anatomy
Radiological Anatomy
Physics of X-Ray
Radiography, Radiographic Positioning
Radiation Hazards, Radiation Protection
Dark Room.

Paper	Duration of Study	Topics	Duration of Paper	Marks
I	300 hours		3 hrs	100 marks
UUI		ANATOMY	3 1113	100 marks
PER		Nervous System (C.N.S., Cerebrum, Basal Ganglia, Thalamus. Hypothalamus, Ventricles. erebroSpinal luid and athway. Brain Stern, Cerebellum, Spinal Cord. Gil Digestive System, Alimentary Tract., Pharynx, Mesentery Oesophagus. Stomach, Small Intestine, Large Intestine, Salivary Glands FACE/ORBIT/PNS COURSE OF MAJOR VESSELS AND LYMPHATICS MAJOR NODES	logy, Ele Numinor al Waste ry Nsg harmaco lations of manage atory M logy,&d irology acteriold	marks 1 0

भाग 4 (ग) राजस्थान राज-पत्र,	दिसम्बर	8,	2014
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edial sistem	Respiratory	isture of atom
acon beautic	System.	
	Nose, Pharynx, Trachea,	lation dose and hi
inc.	System, Kidneys, Ureters, Urethra.Orbit,Occipital	lography - Coper lin
	Bone,	
historizad p	Parietal Bone,	PRACTICAL
	Temporal Bone. Frontal	
soft out arks	Bone Frontal Bone,	a sword 00a
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25 marks	Pillian I	nkibs I 10 mar
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	Thorax,	
101	Abdomen,	11 300 Kdms
marks		
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	Axial, Coronal & Saggital. Radiological Anatomy.	A PORY
30 hours	Radiological Anatomy.	10
30 hours	Radiological Anatomy. Non Ionic & Ionic Contrast	10 marks
30 hours	Radiological Anatomy. Non Ionic & Ionic Contrast NEGATIVE & POSITIVE	
30 hours	Radiological Anatomy. Non Ionic & Ionic Contrast NEGATIVE & POSITIVE CONTRAST	marks
30 hours	Radiological Anatomy. Non Ionic & Ionic Contrast NEGATIVE & POSITIVE CONTRAST Contrast Reaction and its	marks
30 hours	Non Ionic & Ionic Contrast NEGATIVE & POSITIVE CONTRAST Contrast Reaction and its Management.	marks
30 hours	Radiological Anatomy. Non Ionic & Ionic Contrast NEGATIVE & POSITIVE CONTRAST Contrast Reaction and its	marks
30 hours	Radiological Anatomy. Non Ionic & Ionic Contrast NEGATIVE & POSITIVE CONTRAST Contrast Reaction and its Management. ROUTES OF CONTRAST	marks
	Radiological Anatomy. Non Ionic & Ionic Contrast NEGATIVE & POSITIVE CONTRAST Contrast Reaction and its Management. ROUTES OF CONTRAST	marks
	Radiological Anatomy. Non Ionic & Ionic Contrast NEGATIVE & POSITIVE CONTRAST Contrast Reaction and its Management. ROUTES OF CONTRAST Radiation Hazards and	marks

Contrast-Media

PAPER II

General radiation physics Ionization structure of atom radiation dose and hazards radiography upper limb, lower limb, chest, abdomen, skull and spine

PRACIICAL PRACIICAL

PRACTICAL	TRACITCAL	The second secon	
600 hours		3 hours	100 marks
Pediatric C CT/ANGIC Case of Tra	ING Head C.T T! 3D uma/HRCT contrast body C.T	iong 2 Shigt at Ex	25 marks 25 marks 25 marks 25 marks

SECOND YEAR

Paper Duration of Study	Topics	Duration of Paper	
II 300 hours	ate of the second of the secon	3 hrs	100 marks
A Thours	Patient Preparation & Positioning of C.T Brain, C.T. Neck, C.T.P.N.S C.T. Thorax, C.T. Abdomen, C.T. Scan of Spine, C.T.limbs, C.T. Orbit, HRCT. Pathologies-Cranio Cerebral & Epidural/Su bdural. Haematoma, Subarachnoid Haemorrage, In tracerebral Haematoma, lydrocephalus, Stroke, Cerebral nfarction. Brain body Tumours.Pneumonia,	STRON	15 marks 20 marks

भाग 4 (ग) राजस्थान राज-पत्र, दिसम्बर 8, 2014
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	4 (ग) राजस्थान राज-पत्र, दिसम्बर 8, 2014	63(91
	Pleural Effusion.	
	Tuberculosis,.	
	Hepatocellular	
	carcinoma, Renal Cyst, Renal cell	11/6
	carcinoma,	HALF WILL SIDE
	Polycystic Disease.	
	Abdominal & Pelvic masses (PAPER FIR
	inflammatory and	Charylelue v
	malignant)	arulation, sie
	Angio of Brain, Abdomen. NCO	vermonhea
	/RING LESIONS OF BRAIN	
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	ASCULAR	SOURCE SOURCE
	LESIONS	
	30 Hours C.T. Myelogram, CT	
	Guided FNAC &	patients
	Other	nnacytheti
	Special C.T. Procedures. 0.1 Enteroclysis,	10 marks
	CTIVP	1 Mai beau
	30 Hours PET C.T / Recent	NET THE A
	Advances/perfusionCT/	10 marks
Y	MDCT	SHISHAGEN
II	90 Hours Physics Basic Principles of C.T	20 marks
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	of 0.1 Scan, Scanner Geometry:-	sagiriqezoo,
	1 st Generation.	
	IInd Generation, III	PAPER SE
	Generation, Vth	knowledge
	Generation,	one Rode
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	C.T Number,	AND MITTERSON
	Attenuation	GAMME
	values, Image Reconstruction	SZIBER TOL
	Algorithm.	
	Components of Helical or spiral	
	C.T. Scan, Gray	
	Scale, MIP, MPR, VRT,	
	Angiography. MDCT	o sudally2
	Cardina CT /61/120 Cl: - 0 1	
	Pitch / 3001 Reconstruction /	2012000201
100		
	SSD/ PET CT	

Schedule-14 [see regulation 41(2)] Syllabus of Diploma in Endoscopy Technology FIRST YEAR

PAPER FIRST

knowledge of applied anatomy of GIT. knowledge of endoscope room set up, instructions to the patients before and after endoscopy, indications and contraindications of different types of endoscopies, knowledge about various parts of endoscope, knowledge regarding various attachments of endoscope (like light source, suction source) and their parts,

PAPER SECOND

patient's position and precaution (like mouth piece use , anaesthetic spray and patient's preparation before endoscopy , knowledge of observation room set up , instruments and drugs used in it , knowledge of endoscopic sterilisation.

SECOND YEAR

PAPER FIRST

knowledge about cleanliness of endoscope before and after endoscopy, difficulties arising before during and after endoscopies, knowledge of drugs and other accessories (. like biopsy forceps, oesophageal dilators, bend ligator etc.) used during endoscopies,

PAPER SECOND

knowledge about diagnostic and therapeutic procedures, care about accessories and their cleanliness, knowledge of complications diagnostic and therapeutic procedures and it's primary treatment, knowledge of various solutions for sterilisation of the endoscopies and it's accessory.

Schedule-15 [see regulation 41(2)]

Syllabus of Diploma in E.E.G.(Neuro Electro Physiology)
Technology

FIRST YEAR

PAPER FIRST

1. Study of General Anatomy and Physiology of Human Body

PAPER SECOND

- 1. CLINICAL:
- A) Seizure disorder and its differential diagnosis
- B) i) Normal EEG pattern in children and adult, awake and sleep.
- ii) Neonantal EEG
- iii) Normal variants
- iv) Artifacts: Eye movements, muscle pulse
- v) Activation methods: Hyperventilation, photic stimulation, sleep deprivation,

others

vi) Abnormal EEG records, definition-spike, sharp, slow waves, other

abnormalities

- vii) Abnormal EEG in neurological diseases
- viii) Brain death
- 2. TECHNICAL ASPECTS:
- i) Different parts of EEG machine and its functions, i.e. montage, electrodes, filter,

calibration, sphenoidal electrode, depth electrodes.

ii) Electroencephalographic monitoring (in patients and ambulatory), Video

Electroencephalography, Intraoperative records, Quantitative electroencephalography,

Brain mapping and others (in brief).

- iii) Electroencephalographer's reporting
- iv) Record keeping.

SECOND YEAR

PAPER FIRST

1. NEURO-ANATOMY:

Muscle: Origin, i8nsertion, nerve supply, structure Nerve: Course-cranial and peripheral, structure

2. NEURO-PHYSIOLOGY:

Muscle:

- i) Functions of muscles
- ii) Muscle contractions
- iii) Electrical properties of muscles

Nurve:

- i) Functions of nerve
- ii) Electrical properties of nerve. Near filed potential and Far field potential
- iii) Nerve conduction

iii) Metabolic

iv) Inflammatory

v) Others

vi) Neurogenic muscle involvement

vii) Neuromuscular junction abnormalities

Nurve:

i) Demyelination

ii) Axonopathy

PAPER SECOND

CLINICAL:

1) Nerve: a) Disease affecting cranial and peripherals

i) Bells play

ii) Peripheral neuropathy

iii) Entrapment neuropathy

b) Basic principles of nerve conduction study (NCS)

i) Motor NCS

ii) Sensory NCS

iii) F-ware

iv) H-reflex

v) Blink reflex and others

vi) Repetitive nerve stimulation

vii) Abnormalities in disease

viii) Central motor conduction

2) Muscle: a) Disease of muscle and neuromuscular junctions

b) Normal EMG recording-Resting/Insertional activity/Volitional recruitment

pattern, Interference pattern.

c) Abnormal EMG -

i) Myopathies

ii) Neurogenic muscle involvement

iii) Involuntary muscle contractions

iv) Neuromuscular transmission disorder

d) Needle EMG - Conventional, Macro EMG, Surface EMG, Single fibre EMG

- 3) Evoked potential studies:
- i) Visual evoked potential
- ii) Brainstem auditory evoked potential
- iii) Somatosensory evoked potential
- 4) Instruments:
- i) Basic knowledge about the machines
- ii) Electrodes
- iii) Electrode impedance
- iv) Identification of wave pattern
- v) Artifacts
- vi) Normal laboratory values
- vii) Electromyography reporting
- viii) Record keeping
- 5. Polysomnographic studies Normal sleep and sleep disorder (in brief)

Schedule-16 [see regulation 41(2)] Syllabus of Diploma in TMT Technology FIRST YEAR

PAPER FIRST

Applied anatomy of human body. set up of TMT room, how to maintain TMT machine, knowledge of computer (feeding data of patient, taking out printed report etc.),

PAPER SECOND

preparation of the patient undergoing TMT , instructions to the patient coming for TMT , instructions regarding drugs before TMT , indications and contraindications of TMT , knowing how to keep the record of TMT , knowledge of use of stethoscope and establishment of I.V line

SECOND YEAR

PAPER FIRST

Gross knowledge of common pathological conditions. knowledge about steps of TMT, indications to stop TMT when patient is on test,

PAPER SECOND

instructions to the patients during the tests, knowledge of parameters before, during and after the tests, knowledge of ECG tracings, indications of termination of tests, knowledge of defibrillator machine and it's use, knowledge of drugs used in

TMT room during and after TMT if complication occurs, how to shift the patient in CCU in case if it is required.

Schedule-17 [see regulation 41(2)] Syllabus of Diploma in Cath Lab Technology FIRST YEAR

PAPER I

Applied Anatomy, Physiology and Biochem of Cardio- vascular system.

Cardio-vascular pharmacology.

Applied aspects of Ultra sound/ Doppler principles and practice.

Elector cardiography- Electrophysiology, Einthevenrnis law
Introduction to ECG Reading normal and Abnormal ECG.

PAPER II

Cardio pulmonary resuscitation

Electricity- Power Supply system, Ohm's Law CRT. TUBE multi meter.

Electro med, equipment standards and safety

(a) ECG Maintenance of minimum repairs

Defibrillator- indication, operation and indications and Precautions.

Arrhythmia's conduction/abnormalities, pacemaker
Stress ECG principles, methods of recording and observation.
Holter Recording- principles, methods of recording and observations.

Introduction to cardiac catheterization.

SECOND YEAR

PAPER I

Computer Science:

Fundamentals:

- 1. Evolution of computers, contributions of eminent scientists of the field of computers, field.
- Concepts of computer hardware, input/output devices, central processing unit, main memory, secondary memory etc.
- 3. Definition of instructions, programmes software.
- 4. Software spectrum system software, business orient

applications, R & D type research S/W, real time software etc.

- 5. Languages Machine languages, assembly languages, natural languages.
- 6. Significance of Grammar in computer languages.

 Logic Diagrams:
- (i) Flow charts symbols and their significance.
- (ii) Variables –simple variables array variables.
- (D) Basic Languages: Incompasses notional Will

Input/output commends, assignment, if then, if then R Statements, for Next statement, GOTO, on GOTO STOP interactions, swapping, ascending and descending order also arrays DIM command.

Data Types: Integer, Real double precision

files: Data fields, records, data files, program file sequential files, random files etc.

Basic aspects with special emphasis on applied aspects as related to medicine, electricity, sound, pressure, properties of solids and liquids and magnetism.

(Biomechanics.

Electronics – Basic principles with special reference to applied aspects as related to medicine. **6.** Basic aspects of computers and computer language. The lecture courses should cover all aspects of computers so as to enable the candidate to do simple programming Electricity And Electrostatics:

- (a) Simple electron theory of conduction's.
- (b) Resistance. Supplies continue bas des oribins young some
- (c) The Joule. the watt.
- (d) Properties of electric charge.
- (e) Capacitor.
- (f) Electronic potential/potential difference (PD).
- (g) Types of AC/DC.
- (h) Basic of Ac/Circuits.

Magnetism/Electro-magnetism/Electromagnetic induction:

- (a) Magnetic poles/Fields/ flux and in flux density.
- (b) Magnetic field due to a straight and circular coil wire.
- of (c) The AC transforme. I gain an avig of bloods stabiling

PAPER II

Cardiacy Catheterization:
Normal Physiology

Vascular Resistance

Vascular Heart disease.

- (1) Stennotic Lesions
- (2) Regurgitate Lesions.

Congenital Heart Disease

- (1) Acyanotic obstructive & Left to Right Shunt
- (2) Cyanotic CHD

Cardiac Output

L.V. Function assessment

Coronary Graft Angio

Coronary Graft Angio

Oxygen consumption calculation

Exercise and Cath

PTCA (Percutan Transmural coronary Angiography)

Valvuloplasty

- (i) Mitral Valvuloplasty.
- (ii) Aortic Valvuloplasty.
 - (iii) Pulmonary Valvuloplasty.

IABP (Intra Aortic Balloon pump)

Pressure recording Care of the patient following cardiac catheterization

Post – Angioplaty care post valvuloplasty cares

Pre-cath evaluation with check lists

Pre PTCA evaluation with check lists

Pre – Valvulo plasty evaluation check lists

Emergency cardiac cath and coronary angiogram

Permanent Pace Maker implantation after care

Radiology

- 7. Single plain
- 8. Bi-plain.
- 9. DSA.
- 10. angulations.

Film developing/processing

Specific to this Speciality:

Instrumentation and their circuits as related to the speciality. The candidate should be given training to enable him to identify the defect if any instrument goes out of order and to rectify the simple defects.

The candidate should be trained in all the techniqued in the concerned specialty. He should be able to do the procedure independently and know the normal and abnormal pattern of the tests.

The candidate should be taught basic aspects of anatomy, physiology of the concerned specialty account of disease states related to various test procedures to be taught.

List of Practicals:

ECG Recording pediatrics/Adult Patient.

Operations, calibrations and servicing of ECG.

Recording of Holter/Stress ECG.

ECG Monitoring of Patients in ICCU.

Ambulatory B.P. Monitoring.

Operations of 2-D Echo/M.Mode Doppler and CFM system and its maintenance.

Operation of TEE and its maintenance.

Operation of blood oxymeter, ventilator and ABG Machine.

Operation of Tagarno and its maintenance.

ICCU Monitoring.

Control of film processing and developing.

Other practical in assisting in temporary Pace-Maker and Permanent Pace-Maker etc.

Schedule-18 [see regulation 41(2)]

Syllabus of Diploma in Emergency & Trauma CareTechnology FIRST YEAR

TOPICS

- 1. Anatomy & Physiology
- 2. Microbiology, Elementary Pathology
- 3. Hygiene, Nutrition, Nutritional Disease
- 4. Biomedical Waste Mgt
- 5. First Aid
- 6. Disaster Mgt
- 7. Elementary Nsg
- 8. General Pharmacology
- 9. Human relations
- 10. Community Health Nsg& Communicable diseases:
- 11. Hygiene chemicals and its use
- 12. Equipment management

SECOND YEAR

- 1. Med-Sur Nsg
- 2. Pharmacology

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4. Special	ities					
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- ENT						
- Skin						
- Mental I	Jealth & Da	ychiatric Nursi				
- Radiolog	rv	yematrie Nursi	ng			
- Physioth	erony Occ		AS MULTINE	OUTBREAK		
FIRST Y	Grapy, Occ	upational thera	py and Re	ehabilita	ation 12	27
		ON OF CUDI	ECTEC	en Bires		
	STUDY	ON OF SUBJ	ECIS	DURA	LION	MARKS
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	Machine	Microbiology	, Elementa	iry	15	
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		,Nutritional D	liceage			
8.25		Biomedical W	aste Mot		5	Control of
120		First Aid	aste wigt		10	Other pu
7.5		Disaster Mgt			5	Penmanent
INTERNA	L ASSESM	IENT	25		3	
PAPER II 2	206.25	Elementary	.03 HRS		40	100
wantan		Nsg,				
37.5		General Pharn	nacology		10	
11.25		Human relatio	ns		5	
37.5		Community H			10	
7.5		Nsg&Commu	nicable disc	eases:		
		Equipment ma	nagement		10	
INTERNA		ENT	25			3. Hygien
Practical (500	Fundamental	03 HRS		40	100
		Nsg				5. First Al
		- Bed making				
		& Tray				
Medical Fa	views and	setting				8. Genera
Medical Equ First Aid	iipinent		10			
- Bandaging	Cacualty	in minimizable di	25			
Thomas spli	nt	arriage				
Ward Mark			25 11000			
SECOND Y			25			
	URATION	OF SUBJEC	TC	DID	TION	P. Lahran
	TUDY	SUBJEC				MARKS
				OF PA	PER	

भाग 4 (ग)	रा	जस्थान राज–पत्र, दिर	नम्बर 8, 2014	/Jy /	63(101)
PAPER	225	Med-Sur Nsg	03 HRS	55	100
I		LOMETRA			
75		Pharmacology		20	
INTERNA	AL ASS	ESMENT	25		
PAPER	187.5	Med-	03 HRS	25	100
II		SurgNsg			
112.5		Specialities		50	
		- Eye, ENT, Sk	in Mental	STATE OF THE STATE	P I mane
		Health & Psycl		* * 2. "	41 5
		Radiology, Phy		C) (
		Occupational th			MINTER
		Rehabilitation,			
INTERNA	L ASS		25	Capacita Car	43
Practical	600	Med-SurgNsg	03 HRS	75	100
		(Advanced		400	
		procedure			10 Tons
INTERNA	L ASS	and the second s	25 10 10	Durati	

Schedule-19 [see regulation 41(2)] Syllabus of Diploma in Optometry Technology FIRST YEAR

TOPICS

- 1. General Anatomy & Physiology
- 2. Ocular Anatomy
- 3. Ocular Physiology
- 4. Physical Optics
- 5. Prism & Lenses
- 6. Retinoscopy & Refraction Technique
- 7. Transposition
- 8. Refractive Error

SECOND YEAR

TOPICS

- 1. Disease of Eye
- 2. Diagnostic Instrument
- 3. Pharmacology. Pathology & Microbiology
- 4. Mechanical Optics
- 5. Public Health
- 6. Community Ophthalmology

SYLLABUS FOR DIPLOMA IN OPTOMETRY FIRST YEAR

Paper	Study	tion of Subjects (Hrs.)	Duration of Paper	Mar	·ks
Paper I		General Anatomy & Physiology	3 Hrs.	15	100
APVIE	300	Ocular Anatomy	Chall Rate	30	
APER I	SHEED	Ocular Physiology	HOOLE PAP	30	
	INTERNAL ASSESSMENT		ESMENT	25	ANNY

Paper		uration of udy (Hrs.)	Subjects	Duration of Paper	Mai	·ks
		Physic	eal Optics		10	
		Prism	& Lenses	olgitt to a	15	
250 Paper			& Refraction		15	
	Te	Tecl	hnique	3 Hrs.	Geb	100
		Trans	position	iar Physio	10	E.
		Refract		30		
	INT	ERNAL ASS	ESSMENT		20	10

	1	PRACT	ICAL	2012.00	100	-	
Paper	Duration of	Subjects	Duration of		Marks		
	Study (Hrs.)	OND VEAR	Paper				
Practica I		General Anatomy & Physiology	sof Eye stic lustr	15		.1	
entrasp Confessor	600	Ocular Anatomy & Physiology	acology, i nical Opt	30	N.		
		vanlamine)	3 Hrs.		100		

BM apple	I Physical & Physiological Optics	30	19989
100 miles (100 miles) (100 mil	WARD MARKS	25	

SYLLABUS FOR DIPLOMA IN OPTOMETRY SECOND YEAR

(iii) Vet				inblex		
Paper	Duration of Study (Hrs.)	of was	Subjects	Duration of Paper	Ma	rks
		Di	sease of Eye	or also arra	45	
Colema That I		Diagnostic Instrument		bje	20	100
Paper I	350		Pharmacology, Pathology & Microbiology		10	
		M				
22.47¢	HE THE		NTERNAL SESSMENT		25	
Paper	Duration Study (H		Subjects	01	T-MO	Marks
Paper II			Mechanica Optics	atomy of til	45	
		250	Public Health	3 Hrs	10	100
	dloine e.g.	sed me	Commun Ophthalmolo		20	
	Pance (Islee	di ses se do	INTERNA		25	

Paper	Duratio n of Study (Hrs.)		Subjects	Durati on of Paper		Marks
			Disease of Eye		20	
	Tamorgo	600	Mechanical Optics	MALLY	20	
Practica l	nollerat	i	Diagnostic Instrument	3 Hrs.	15	100
145	Paper Rewal As	SES	Pharmacology, Pathology &	(Buss)	10	
			Microbiology			
97			THO WILLIAM TO SEE		and the same	
81	dy.affic		Community Ophthalmology		10	
1.001		WAR	D MARKS	2.78.50° I	25	19

Schedule-20 [see regulation 41(2)] Syllabus of Diploma in Perfusion Technology **FIRST YEAR**

PAPER-I

Section-A- Brief and General Knowledge about

- 1. General Human Anatomy & Physiology
- 2. Anatomy of Heart Lung Blood Vessel, Kidney, liver, Nervous system, Endocrine system, circulation, Physics, factors endolgy, blood supply of visual organs.
- 3. Heart as Pump & Cardiac cycle
- 4. Blood, its components and Haemostatic
- 5. Pharmacology of commonly used medicine e.g. Inotropes, antiarrythmics
- 6. Conduction system of the Heart.
- 7. Excretory function and Acid Base Balance (Electrolyte balance)

PAPER-II

- 1. Heart blocks and Pacemaker
- 2. Respiration, Gas Exchange & Diffusion
- 3. E.C.G and Defibrillation

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- 4. Rheumatic heart disease pathology and surgery
- 5. Ischemic heart disease –(Pathology and Surgical Management)
- 6. Acyanotic Congenital Heart Disease-(Pathology and Surgery)
- 7. Cyanotic Congenital Heart Disease-(Pathology and Surgery)
- 8. Method of Sterilization –Definitions, Types, Methods, Central Sterilization
- 9. Asepsis and Theatre techniques
- 10. Liver function tests.
- 11. Endocrine system, catecho lamine, adrano cotical Hormones
- 12. Pharmacology-

Intropes +Vasoprssin

Vasodilators+ Hypotehsive agents

Treatment of HT

Plasma expanders-volume expanders

Anti-arrgythmic agent

Anesthetic agent+muscle relaxant

Anticoagulant

Drugs affecting coagulation

Thramobolytics

Steroids

Buffers

Diuretics

Insulin, Antiboitics

SECOND YEAR

PAPER-I

- 1. Types of Oxygenators and some common Oxygenators.
- 2. Heat Exchangers, Filters and Resevoirs
- 3. Aortic and Arterial Cannuae.
- 4. Venous Cannulae and techniques.
- 5. Priming fluids, PCV
- 6. Calculation of BSA, Circulating PCV, SVR.
- 7. Myocardial preservation+Cardioplegia
- 8. Safety devices
- 9. Complication during CPB+management
- 10. Blood conservation + Perfusion
- 11. Oxygen Preservation, ECMO

PAPER-II

Technique of Cardiopulmonary Bypass 1.

Cardioplegia, additives & techniques. 2.

Hypothermia, Circulatory arrest and Homeostatics Management.

4. Body reponse of extracorporeal circulation and complication of C.P.B.

5. Ultra filtration during Cardiopulmonary Bypass.

6. Emergency during Cardiopulmonary Bypass.

Perfusion Technology for Minimally Invasive Cardiac Surgery

Perfusion for aortic surgery. 8.

Comlication during CPB+ Management. 9.

DIPLOMA IN PERFUSIO TECHNOLOGY PRACTICAL

Maximum Marks-100 Minimum Marks-50

Division of Marks Log Books of cases

(Procedures- Observe, Assist & under supervision) -10 Marks Internal Assessment -30 Marks Viva-

a) Internal b) External

-30 Marks -30 Marks

Syllabus for practical Cardio Thoracic Perfusionist

- 1. Handling of sterile components/ Maintenance of sterile environment in OT
- 2. Priming of circuit
- 3. Assembly of circuit
- 4. Leakage detection
- 5. Air bubble removal
- **6.** Roller pump calibration
- 7. Wet runs
- 8. Monitoring parameters
- 9. sampling and data recording
- 10. Drug management during cardiopulmonary Bypass
- 11. Equipment maintenance
- 12. Coordination with Surgeon and Anesthetist

16. Cardiac Support- IABP, Pacemaker, degibrillator, Infusion Pump, Central monitor, ECG machine

17. Sterilization and disinfection of Operation Theatre, ICU, Instruments.

18. Positioning of patients in various operations

- 19. Preparation of instruments on trolley for Cardio thoracic Surgery operations.
- a) Cardiac Surgery
- b) Thoracic Surgery

c) Vasuclar Surgery

20. In order of eligible candidate should

Observe 50 procedures
Assist 20 procedures
Perform under supervision 15 procedures

- 21. Machines used in Cardio thoracic Operation Theatre- Their uses and maintenance
- a) Monitor
 - b) Operation Table
 - c) Electro Surgical Unit(Cautery)
 - d) Operation Lights
 - e) Bronchoscope
 - f) Esophagoscope
 - g) TEE
 - h) Fiber optic scopes
 - i) Sterilizers

Schedule-21 See regulation 45, 47, 52 & 54 Charges and fees

Various charge and fees -

1. Application fee for recognition	5001
2. Inspection fees for recognition	500/-
3 Inspection less for recognition	30000/-
3. Inspection by third Inspector or Registrar	25000/-
4. Re-inspection (Per Year)	25000/-
5. Registration fee for trained personnel	
6. Registration fee on Reciprocal Basis	2000/-

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(i) For all th		ered with other Sta	
			2000
(11) For all th	ie candidates quali	fied from other Co	ountries. 10000/
7.Fee for Re	newal after every f	ive years of Regis	tration
and extra c	qualification		1500/
8. Tuition Fee	es (to be charged fi	rom student's by	1500/
the institu	tion per year)		35000/
9. Enrolment	t fee per candidate		3000/
10. EXAMIN	NATION FEES per	student	300/
(including m	arks sheet}		1000/-
11.Revaluati	ion fee per paper		
12. Re-Totali	ing for one Subject		
13. Reappear	ing of failure Cand	lidates	250/-
14. For docum	ments-		250/-
(i) Fee	e for issue of Dupli	icate Mark Sheet	200/-
(11) is:	sue of Duplicate Re	egistration Certifica	ate 500/
(iii) Iss	sue of Duplicate D	iploma Certificates	500/-
(1V) U1	rgent Fees	1 Commodition	1000/-
15. Late fee t	for examination		250/-
	or registration		1000/-
17. Late fee fe	or renewal of regis	tration	500/- (per year)
		on Table -	(por your)
		dule-22	
Equipp	nents required for	ulation 53)	impijO (B)
1. Dethar	cm 500d	Diploma in Physi	iotherapy
2. T.N.S.		ficescola	
3. C.P.M			_HI (e
	le Stimulator		
	er Traction		
	oth Madi		
	-41 0 : 11		
	atl. I		
9. Ultra S			
10. Intra R			
11. Cervica	1 Tunetian		
12. Should	on XX/1. 1		
13. Cycle	er wheer		
	oo Evonois		
14. Quardio	e Exercise		
15. Chain V	with LI Kg. wt.	stee for trained per	

16. Wrist / Elbow Exercise Wooden

17. Hydrcoluter

Schedule-23 (see regulation 53)

Equipments required for Diploma in Medical Laboratory Technology

Refrigerator	01
Centrifuge	And an artificial
20 AND 10 2	
Microscope	10
Hand lens	
microtome	
Histokinetic	01
Spirit lamps	10 house de la march
Sahli's Hemoblobinometer	10
Hot air oven working	O1
Stabilizers	01
Analytical balance	01 01
Chemical balance	01
Certified weight box	O1
pH meter	01 01
Hot plates	02
Dessicator	O1
Incubator (2' x 3')	01 and obtained v
Timers	01
Thermostatic water bath	02
	22011 114 1110
Improved Triple ruled neubauer	Test tube racks
Counting chamber	 10
Safety spectacles	
Charts and Models	02 gavola noddusi
Chemicals and Stains	as per standard
Tripod stand and burner	05
Autoclave	01
VDRL Shaker	01
VDRL Slide	05
Loviband comparators	01
Bacterial loop	10
Thermometer up to 200° C	02
Candle Filter	01

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Charts: Models showing regions / parts of human body. 2 sets of Histological slides and which are mentioned in the syllabus.

Skeleton
Sets of individual bones
-- 01
-- 01

Blood group antigens: anti-A, anti-B, anti-D

lancets	011
Westergrins tubes	01 boxes
Wintrobe's tubes	05
willtrobe's tubes	05
Capillary tubes	901070
(Heparinised & Plain)	atoxic content in
Petridishes (diff. sizes)	03 boxes each
Powets (ulli. Sizes)	50
Pauster pipettes	50
Adjustable micro pipettes	
Funnels - different sizes	01
Beakers - different sizes	10
Marie : different sizes	10
Measuring jars = different sizes	10
Conical floales	10

Conical flasks -- 10 Round bottom flask -- 10 Watch glass -- 50 Volumetric flask -- 10 Test Tube holder -- 20 Centrifuge Tubes -- 50 Folin Wu Tubes -- 10 Test tube racks -- 20 Serological Pipettes -- 20 Glass rods (Diff. sizes) -- 20

Rubber gloves
Surgical gloves
-- 01 box
-- 01 boxes
Rubber teats (diff. sizes)
-- 10 Nos.
-- 20

Schedule-24 (see regulation 53)

Equipments required for Diploma in MRI Technology
MINIMUM 1.5 TESLA MRI machine – one
(COMPLETE SYSTEM)

Schedule-25

(see regulation 53)

Equipments required for Diploma in Medical X-Ray Technology

Mobile X-Ray machine - one Fixed 500 MA X-Ray machine – one Fixed 300 MA X-Ray machine – one CR/DR system - one Cassettees and Hangers in adequate number

Schedule-26

(see regulation 53)

Equipments required for Diploma in Dental Mechanics Technology

- 1. Mean value articulators
- 2. Semi-adjustable articulators
- 3. Dental flasks with clamps
- 4. Acrylisers
- 5. Vacuum mixer
- 6. Vibrator
- 7. Cast -drying oven
- 8. Centre grinder / palatal trimmer
- 9. Lab hand piece with micro motor
- 10. Hanging motors
- 11. High speed lathe
- 12. Casting machine with crucible
- 13. Casting furnace
- 14. Casting rings
- 15. Sandblaster
- 16. Model trimmer
- 17. Electrolytic polishing unit
- 18. Micro motors
- 19. Agar conditioner and duplicating flasks
- 21. Ceramic firing unit
- 22. Pindex die pin attaching unit
- 23. Die cutting unit
- 24. Denture finishing kit
- 25. Metal finishing kit
- 26. Ceramic restoration finishing kit

Schedule-27 (see regulation 53) **Equipments required for Dental Hygiene Technology**

A Laboratory / Dental Clinic / Dental Workshop well equipped with Dental Equipments, instruments and Materials used during the course of the study with adequate Patient inflow for training.

- Chairs
- b. Ultrasonic scalers
- C. Han instruments
- d. Autoclave
- Details of IOPA amchine
- Panoramic machine
- Extra oral machine
- Automatic processor
- i. Mannual processing facilities
- Teaching aids like OHP, LCD, Charts j.

models etc.

Schedule-28 (see regulation 53)

Equipments required for Diploma in Operation Theater Technology

OT tables -hydraulic / electronic with lithotomy, kidney bridge

Ceiling mounted O.T. light - 01

Suction apparatus - 01

Autoclaves - 01

Sterilization bin - 01 Cautery machine - 01

Fumigation equipment for OT - 01

Boyles anesthetic machine - 01

OT instruments for all specialties - 01 set each

Pulse oximeter - 01

ECG monitors - 01

Defibrillators - 01

Ambo bags Ventilator - 01

Central oxygen, nitrous oxide from manifold rooms

C-arm with image intensifier and necessary protective equipment

machines

Schedule-29 (see regulation 53)

Equipments required for Diploma in Dialysis Technology

A dialysis unit consisting of a hall to accommodate the 5 HD machines and the following:

(a)Complete water treatment system	1 full system to
comprising of Pre-filter, Carbon filter,	run 5 HD
Softener, R.O. unit and storage tank	machines
(b)Stabilized power supply supported by	3 KVA machine
generator in case of power failure	Equipments
(c)Split A/C with false roof (optional)	3 tons
(d)Individual servo controlled stabilizer (3 KVA each)	5 nos.
(e)Complete electrical wiring from main supply	as required
to machine and generator to machine	
(Emergency)	
(f)Complete external plumbing work, from	2 booster pumps.
water	
source to R.O. unit from R.O. unit to the	

ITEM	NO.	USAGE
a) H.D. Machines	02	for regular patients
b) H.D. Machines	01	for Isolation patients
c) CRRT Machine	01	for ICU dialysis

SL. NO.	EQUIPMENTS	QTY.
	HAEMODIALYSIS UNIT	
1.	Cardiac Monitor	01
3.	Defibrillator	01
4.	Humidifier	04
5.	Glucometer	02
6.	Weighing Machine	01

Schedule-30 (see regulation 53)

Equipments required for Diploma in Orthopedic Technology

- 1. Plaster Cutter
- 2. Jhonson fracture table

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Schedule-33 (see regulation 53) Equipments required Diploma in Blood Bank Technology

S. No.	Name of the Equipment	Specifications	Qty
1 10 10 10 10 10 10 10 10 10 10 10 10 10	Donor Chair	Fully upholstered and cushioned to provide comfortable position Variable position and heights for either arm as well reclining body position Smooth shifting from headlow feet high position to any intermediate position with push	Card Card Defi

button provision. Mobile on wheels with single break lock system and foot control. Better model for demonstration and approval.

Bedside Locker

405 X 405 X 820 mm. M S body power coated - S S Top. One drawer, One locker box 2 rear twin type casters 50 mm diameter 2 pedestal Stands in front.

nometer

Sphygmoma ISI standard 3390 4 99.9% pure mercury Error tolerance ± 3 mm Hg. Micro filter for long life Precision air release valve Cuff with 2 tubes, rubber bladder Metal face plate with easy to read upto 300 mm Hg, Yellow scale Mercury lock for storage, transport, maintenance. Cleaning device for glass tube PVC zipper

4 Stethoscope

Multiplicity Adult 4 chest piece Ultrasensitive diaphragm for greater amplification.. Color co-ordinated non-chill bell and snap on ring to retain diaphragm for patient comfort.

case

Suitable case for

Recovery

protection with 2 spare diaphragms and air tips. Extra thick tubing wall with ID Tag 3 years warranty. Semi fowler bed. 3 Section Mattress. (HDP - 40 density,100 mm thick foam covered with cloth backed Rexene of superior quality). M S powder coated main frame 1 fixed foldable crank handles. ABS head and foot boards, with Indian Rubbished castors, two with brake, without IV Bottle rod.

Schedule-34 (see regulation 53)

Equipments required Diploma in CT Scan Technology
Multisplice C.T. Scan Machine with Recording system
--1
System Room should be as per BARC norms and
airconditioned.

Schedule-35 (see regulation 53)

Equipments required Diploma in Endoscopy Technology
Well equipped operation theater
gastroduodenoscope,
colonoscope,
bronchoscope, drugs used in these procedures,
Almirah for keeping these instruments,
accessories for various procedures like biopsy forceps, bending
instruments, dilators etc.
Emergency tray with all medicine and primary emergency
equipment.

Oxygen Cylinder cautary machine to prevent massive bleeding from any vessel.

Schedule-36

(see regulation 53)

Equipments required Diploma in E.E.G. Technology

1. EEG Machine (Analogue)	-01
2. EEG Machine (digital)	-01
3. EMG/NCV/EP Machine	-01
4. Video EEG	-01

Schedule-37

(see regulation 53)

Equipments required Diploma in TMT Technology

TMT machine,

computer,

bed for the patient,

BP instruments,

stethoscope,

I.V drip sets, I.V fluids,

drugs and equipments required in emergency in TMT room, electrodes,

ECG jelly.

Air conditioner

Oxygen cylinder

Cardiac defibrilater

Schedule-38

(see regulation 53)

Equipments required Diploma in Cath lab Technology
Cath lab machine complete with all accessories installed as per
BARC norms in A.C. room.

Schedule-39

(see regulation 53)

Equipments required Diploma in Emergency & Trauma Care

	1 centrology			
S. No.	Name of Equipment			
1	C-Arm Image Intensifier			

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2	3 D Ultrasonography
3	500 MA X-ray
4	CT Scan
5	100 MA portable X-ray
6	O.T. Table
7	Cautery Machine
8	O.T. ceiling light
9	High Vaccum Suction Machine
10	Anaesthesia Machine with Monitor
11	Standard Ventilator
12	Pneumatic tourniquet
13	General surgical instrument
14	Spinal surgical instrument
15	Thoracotomy instrument
16	Faciomaxillary instrument
17	Power drill and power saw
18	Craniotomy instrument
19	Splints and traction
20	ABC Machine
21	Automatic bio-analyser
22	Defibrillator
23	Operating Microscope
24	Operating headlights
25	Fowler's bed
26	Rehabilitation equipment
27	Blood equipment
28	Ventilator
29	Monitor
30	Laminar air flow
31	Manifold system
32	Electricity back-up
33	Bed Matress + Linen
34	E.C.G. Machine

Schedule-40

(see regulation 53)
Equipments required for Diploma In Optometry Technology

Snellen's Charts	Refraction units
Torches	Direct Ophthalmoscopes

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Indirect Ophthalmoscope	Slit Lamp
Keratometer	O.T. Lights
Sterilization Unit / Autoclaves	O.T. Tables / Trolleys
Boyles apparatus	Dressing Bins
Tonometer schiots	A Scan Biometry
Operating microscopes	Autorefractometer
Furniture for Out-patient room, Wards etc.	offices, class rooms, Library

Schedule-41 (see regulation 53) Equipments required Diploma in Perfusion Technology

Heart lung machine complete with all accessories.

By order of the Council, नीतू बारूपाल, Registrar.

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