

Syllabus and Curriculum
of
Certificate course
in
Burn and plastic surgery technician

Uttar Pradesh State Medical Faculty, Lucknow.

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OBJECTIVES OF THE COURSE

To prepare a Burn and plastic surgery technician who –

- Can handle patients of burn, do the first aid arrangement, dressing etc and can work efficiently in burn ward..
- Is well aware of common equipments & instruments used in plastic surgery.
- Can assist plastic surgeon during different procedures & surgeries related to the discipline.
- Can perform CPR in Case of need.
- Can perform basic nursing procedures.
- Is well aware about biomedical waste management.

Outline of Curriculum
of
Certificate course
in
Burn and plastic surgery technician

FIRST YEAR

THEORY (Classes: 9 AM to 12 Noon)

First paper : Syllabus covers -

1. Detailed gross and microscopic structures of skin, fascia, tendon, ligament, Cartilage, bone, muscles, artery, vein and nerves.
2. Diseases related to plastic surgery and burn.
3. Basic nursing procedures like IM/IV Injection, IV cannulation, Dressing, Ryles tubing, nebulization etc.

Second paper : Syllabus covers -

1. Special equipments and instruments used in plastic surgery.
2. Role of technician in various plastic surgery procedures and surgeries.
3. Hand hygiene & prevention of cross infection and CPR.

FIRST YEAR

PRACTICAL (Classes: 1 PM to 4 PM)

Practical classes will be after lunch; from 1PM to 4 PM.

Students must present in the hospital for practicals.

Following subjects must be taught; though there will not be any exam from these-

1. Basic Computer skills.
2. Basic English.
2. **Soft skills like** - Interpersonal relationship skills & moral education.

ELIGIBILITY CRITERIA FOR ADMISSION & DURATION OF THE COURSE

COURSE DURATION:-

- It is ***1year***, full time certificate Course.

ELIGIBILITY:-

- Candidate must have either Diploma in OT Technology.

from

U.P. State Medical Facility.

SCHEDULE OF EXAMINATION

FIRST YEAR

<u>Paper</u>	<u>Subjects</u>	<u>Mark</u>	<u>Internal Assessment Marks</u>	<u>Total Marks</u>	<u>Pass Marks</u>	<u>Duration of Exam.</u>
<u>First Paper Theory</u>	<ol style="list-style-type: none"> 1. Detailed gross and microscopic structures of skin, fascia, tendon, ligament, Cartilage, bone, muscles, artery, vein and nerves. 2. Diseases related to plastic surgery and burn. 3. Basic nursing procedures like IM/IV Injection, IV cannulation, Dressing, Ryles tubing, nebulization etc. 	75	25	100	50	3 Hours
<u>Second Paper Theory</u>	<ol style="list-style-type: none"> 1.Special equipments and instruments used in plastic surgery. 2.Role of technician in various plastic surgery procedures and surgeries. 3. Hand hygiene & prevention of cross infection and CPR. 	75	25	100	50	3 Hours
<u>Practical</u>	Oral & Practical	75	25	100	50	3 Hours

SCHEDULE OF COURSE

(List of holidays, Total hours, Subject wise allotment of hours)

- **List of Holidays:-**

Sundays	- 52 days
Summer vacation	- 10 days
Winter vacation	- 10 days
Gazetted holidays	- 23 days
Preparatory holidays	- 10 days
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Total Holidays	- 105 days
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- **Total Hours :-**

Theory classes per day	- 3 Hours
Practical classes per day	- 3 Hours
Total hours per day	- 6 Hours
Total days & hours in One year (after deduction of holidays)	- 260 days or - 1560 Hours

SCHEDULE OF COURSE

Subject wise allotment of hours

FIRST YEAR

Theory (780 Hours) Practical (780 Hours)

<u>First Paper Theory</u>	1.Detailed gross and microscopic structures of skin, fascia, tendon, ligament, Cartilage, bone, muscles, artery, vein and nerve.	150Hrs
	2.Diseases related to plastic surgery and burn.	200 Hrs
	3.Basic nursing procedures like IM/IV Injection, IV cannulation, Dressing, Ryles tubing, nebulization etc.	50 Hrs
<u>Second Paper Theory</u>	1.Special equipments and instruments used in plastic surgery.	100 Hrs
	2.Role of technician in various plastic surgery procedures and surgeries.	200 Hrs
	3. Hand hygiene & prevention of cross infection and CPR.	10 Hrs
<u>Third Paper Practical</u>	As described in curriculum	780 Hrs
<u>Theory: Other Subjects</u> (These subjects must be taught, though there will not be any exam from these.)	1.Basic Computer skills.	30 Hrs
	2.Basic English.	30 Hrs
	3.Soft skills like - Interpersonal relationship skills & moral education	10 Hrs

Details of Curriculum for First Year Certificate course in Burn and plastic surgery technician

PAPER 1st Theory	Topics	Hours.
1.Detailed gross and microscopic structures of skin, fascia, tendon, ligament, Cartilage, bone, muscles, artery, vein and nerve.	1. Detailed gross and microscopic structures of Skin and its blood supply.	20 Hrs
	2. Detailed gross and microscopic structures of superficial and deep fascia.	05 Hrs
	3. Detailed gross and microscopic structures of muscles, tendons and ligaments.	10 Hrs
	4. Detailed gross and microscopic structures of cartilage.	10 Hrs
	5. Detailed gross and microscopic structures of bone.	10 Hrs
	6. Detailed gross and microscopic structures of artery.	10 Hrs
	7. Detailed gross and microscopic structures of vein.	10 Hrs
	8. Detailed gross and microscopic structures of lymphatics.	10 Hrs
	9. Detailed gross and microscopic structures of nerve and plexi.	10 Hrs
	10. Detailed gross and microscopic structures of arterial and venous system.	10 Hrs
	11. Detailed gross and microscopic structures of lymphatic system.	10 Hrs
	12. Structure of upper limb.	10 Hrs
	13. Structure of lower limb.	10 Hrs
	14. Structure of nose.	05 Hrs
	15. Structure of lip and palate.	10 Hrs

Details of Curriculum for First Year Certificate course in Burn and plastic surgery technician

PAPER 1st Theory	Topics	Hours.
2.Diseases related to plastic surgery and burn.	1. Details of wound healing, regeneration ,fibrosis and scarring.	15 Hrs
	2. Skin wounds: superficial and deep.	05 Hrs
	3. Burn : def, types, pathology, extent, degree, effects, immediate treatment, general treatment, definitive treatment.	20 Hrs
	4. Bed sore.	05 Hrs
	5. Limb injury: crush and penetrating.	10 Hrs
	6. Nerve injury.	10 Hrs
	7. Vessel injury.	10 Hrs
	8. Tendon and ligament injury.	15 Hrs
	9. Cleft lip.	10 Hrs
	10. Cleft palate.	10 Hrs
	11. Corn, callus and warts.	10 Hrs
	12. Lipoma, fibroma, neurofibroma.	10 Hrs
	13. Haemangioma.	15 Hrs
	14. Basal and squamous cell carcinoma of skin.	15 Hrs
	15. Melanosis and melanoma.	10 Hrs
	16. Hyper and hypo pigmentation of skin.	10 Hrs
	17. Scar and keloid.	05 Hrs
	18. Hyper and hypopigmentation of skin.	05 Hrs
	19. Amputation.	05 Hrs
	20. Alopecia.	05 Hrs

**Details of Curriculum for First Year
Certificate course in Burn and plastic surgery technician**

PAPER 1st Theory	Topics	Hours.
3. Basic nursing procedures like IM/IV Injection, IV cannulation, Dressing, Ryles tubing, nebulization etc.	1. IM/IV injections.	05 Hrs
	2. IV cannulation.	05 Hrs
	3. IV fluids management.	15 Hrs
	4. Urinary catheterization.	05 Hrs
	5. Naso gastric intubation.	05 Hrs
	6. All types of dressings.	15 Hrs
	7. Wound and bed sore care.	05 Hrs

Details of Curriculum for First Year Certificate course in Burn and plastic surgery technician

PAPER 2nd Theory	Topics	Hours.
1.Special equipments and instruments used in plastic surgery.	1. Special equipments and instruments used in Skin grafting and flap.	10 Hrs
	2. Special equipments and instruments used in Microvascular surgeries.	15 Hrs
	3. Special equipments and instruments used in Cleft lip and palate.	15 Hrs
	4. Special equipments and instruments used in Rhinoplasty.	10 Hrs
	5. Special equipments and instruments used in Limb reconstruction.	15 Hrs
	6. Special equipments and instruments used in Hair transplantation.	15 Hrs
	7. Special equipments and instruments used in Other plastic surgery procedures.	20 Hrs.

Details of Curriculum for First Year Certificate course in Burn and plastic surgery technician

PAPER 2nd Theory	Topics	Hours.
2.Role of technician in various plastic surgery procedures and surgeries.	1. Role of technician in Burn: immediate care, intermediate care, dressing and definitive care.	30 Hrs
	2.Role of technician in microvascular surgeries.	30 Hrs
	3. Role of technician in Cleft lip and palate surgeries.	10 Hrs
	4.Role of technician in limb trauma and reconstructive surgeries.	20 Hrs
	5.Role of technician in Skin grafting and flap surgeries.	20 Hrs
	6.Role of technician in Rhinoplasty.	10 Hrs
	7.Role of technician in Ear pinna reconstruction.	10 Hrs
	8.Role of technician in Liposuction.	10 Hrs
	9.Role of technician in Hair transplantation.	20 Hrs
	10.Role of technician in cosmetic surgeries.	30 Hrs
	11. LASER and other advances in plastic surgery.	20 Hrs

PAPER 2nd Theory	Topics	Hours.
3. Hand hygiene & prevention of cross infection and CPR	1. Hand hygiene & prevention of cross infection	08 Hrs
	2.CPR	02 Hrs

Practical Curriculum

(Hours : 780 Hrs.)

Practical training in hospital/wards of the following :-

1. Role of technician in Burn: immediate care, intermediate care, dressing and definitive care.
2. Role of technician in microvascular surgeries.
3. Role of technician in Cleft lip and palate surgeries.
4. Role of technician in limb trauma and reconstructive surgeries.
5. Role of technician in Skin grafting and flap surgeries.
6. Role of technician in Rhinoplasty.
7. Role of technician in Ear pinna reconstruction.
8. Role of technician in Liposuction.
9. Role of technician in Hair transplantation.
10. Role of technician in cosmetic surgeries.
11. LASER and other advances in plastic surgery.