



ESTD-2005

The Jamner Taluka Education Society's  
**SHREE SURESHDADA JAIN INSTITUTE OF PHARMACEUTICAL  
 EDUCATION & RESEARCH, JAMNER, -424206 DIST- JALGAON (M.S.)**

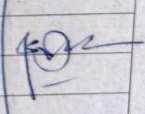
● Approved by PCI, New Delhi & DTE, Mumbai  
 ● Affiliated to K.B.C. N.M.U., Jalgaon  
 ● Courses available :- B.Pharmacy & M. Pharmacy (Pharmaceutics)  
 Ph. : (02580)233478 Fax (02580)233478,  
 Website. : www.ssjiپر.com Email :- ssjiپر\_jamner@rediffmail.com

### 1.1.1.8 Classwise teaching plan

Academic Year 2019-20

SHREE SURESHDADA JAIN INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, JAMNER  
 TEACHING REPORT IN ACADEMIC YEAR JUNE 2019-20 (ODD SEM)

Year & Sem : First year B. Pharm Lectures Prescribed : 45  
 Name of subject & Subject code : Pharmaceutical Analysis-I, BP102T  
 Name of subject teacher : MRS. POONAM A. BORSE Lectures covered : 45

LECT. NO	DATE	MAIN TOPICS	POINTS COVERED	PRINCIPAL'S REMARK
1	5/8/19	UNIT-I (a) Pharmaceutical analysis	Definition & scope, i) Different tech. of analysis	
2	6/8/19		ii) Methods of expressing concentrations	
3	8/8/19		iii) Primary & secondary standards	
4	9/8/19		iv) Preparation & std of various reagents & Normal sol <sup>n</sup> , $\text{CaH}_2\text{O}_4$ , $\text{NaOH}$ , $\text{HCl}$ , $\text{Na}_2\text{S}_2\text{O}_3$ , $\text{H}_2\text{SO}_4$ , $\text{KMnO}_4$ , ceric ammon. sulphate	
5	10/8/19			
6	13/8/19	(b) Errors	Sources of errors, types of errors, methods of minimizing of errors.	
7	14/8/19		Accuracy, Precision & significant figures	
8	19/8/19	(c)	Pharmacopoeia, sources of impurities in medicinal agents	
9	20/8/19		Limit test → chloride, sulphate, Arsenic, Iron	
10	20/8/19			
11	22/8/19	UNIT-II Acid-base titration	Theories of acid-base indicators Ostwald's theory	
12	22/8/19		Resonance theory	
13	26/8/19		Classification of acid-base titration	
14	27/8/19		Neutralization curve - SA vs SB	
15	27/8/19		WA vs SB, SA vs WB	
16	29/8/19		WA vs WB, Polybasic & Polyacid titration curves	
17	31/8/19		Introduction, theory	
18	2/9/19		solvents	
19	7/9/19		Acidimetry & Alkalimetry titrations	
20	9/9/19		estimation of sodium benzoate & Ephedrin HCl	



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UNIT - III			
21	11/9/19	Precipitation titration	Theory, Factors affecting on Ppt.
22	16/9/19		Mohr's method, Volhard's method, modified Volhard's method
23	17/9/19		Fajan's Method, Estimation of NaCl
24	18/9/19	Complexometric titration	Classification, theory, Mechanism
25	21/9/19		Metal ion indicators
26	21/9/19		Masking-demasking agents, Estimation of MgSO <sub>4</sub> , Cal-gluconate
27	23/9/19		
28	30/9/19	Gravimetry	Principle, Adv & disadv.
29	1/10/19		Steps involved in gravimetry
30	5/10/19		Steps involved in gravimetry
31	7/10/19		Purity of precipitate Co ppt Post ppt
32	9/10/19		Estimation of BaSO <sub>4</sub>
33	10/10/19	Diazotization titration	Basic principle, methods & applications.
34	12/10/19	UNIT - IV Redox titrations	(a) Concepts of oxidation & Reduction
35	12/10/19		(b) Types of redox titrations
36	12/10/19		Permometry
37	14/10/19		Iodometry Iodometry
38	15/10/19		Bromometry, Dichromometry
39	15/10/19	UNIT - V Electrochemical methods	Titration with Pot. Iodate
40	16/10/19		Conductometry - Introduction Conductivity cell, Conductometric titrations applications.
41	17/10/19	Potentiometry	Electrochemical cell, Construction of working std hydrogen, silver chloride calomel electrode, Indicator electrode - metal, glass electrode
42	18/10/19		Methods to determine end point of Potentiometric titration & Appl.
43	19/10/19		Principle, Ilkovic eq, DME.
44	19/10/19	Polarography	Rotating Platinum electrode, Applications.
45	22/10/19		

*[Signature]*  
 SUBJECT INCHARGE

Mrs. Poonam A. Borse

*[Signature]*  
 PRINCIPAL

*[Signature]*  
 ACADEMIC MONITORING COMMITTEE



*[Signature]*  
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**Academic Year 2020-21**

SHREE SURESHDADA JAIN INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH,  
JAMNER, DIST JALGAON.  
ONLINE LECTURES CONDUCTED IN ACADEMIC YEAR 2020-2021

Name of Subject with Code: Herbal Drug Technology [BP-603T] Year & Sem: T.Y.B. Pharm VI<sup>th</sup> sem.  
Number of Lectures Prescribed: 45 Number of Online Lectures Conducted: 45  
Name of Subject Teacher: Mr. Yogesh Madhav Bagad.

Sr.No	Date	Topic Covered	% Syllabus Covered
1.	04-3-2021	Herbs as Raw materials : Defn, herb, Herbal Medicine, Herbal Medicinal product, sources of Herbs	28-88%
2.	05-3-2021	Selection, Identification and authentication of Herbal Materials, Processing of Raw material.	
3.	06-3-2021	Biodynamic Agriculture : Good Agriculture practices in cultivation of Med. Plants.	
4.	12-3-2021	- Organic Farming,	
5.	13-3-2021	- Pest and pest Management in Medicinal plants.	
6.	18-3-2021	- Biopesticides & Bioinsecticides.	
7.	19-3-2021	- Indian systems of Medicine - principles of Ayurveda, diagnosis, treatment	
8.	21-3-2021	- Principles, diagnosis treatment Siddha	
9.	25-3-2021	- Principles, diagnosis, treatment of unani.	
10.	26-3-2021	- Principle, diagnosis treatment of Homeopathy	
11.	27-3-2021	- Preparation & standardization of - Asava & Mitha	19-33%
12.	01-4-2021	- Prepn & standardization of : Churna, Bhasma	
13.	02-4-2021	- Prepn & standardization of Ghritika, Loha.	
14.	03-4-2021	- Nutraceuticals :- General aspect, market scope & types of products.	
15.	09-4-2021	- Health Benefits & Nutraceuticals in ailments: diabetes, CVS.	
16.	15-4-2021	- Health Benefits & Nutraceuticals in Cancer Irritable bowel syndrome, GI diseases	
17.	16-4-2021	- Study of following herbs (Health food) Aifa Alfa chiranjy.	
18.	18-4-2021	- Ginger, Fenugreek, Ganik, Ashwagandha	
19.	29-4-2021	- Honey, Amla Ginseng, Spirulina.	
20.	204-204	- Herbal essential Drugs: Herbal food interactions interaction & elucidation	
21.	01-5-2021	- Side effect & interactions:- Hypericum, Kava-Kava, Anabobitaba, Ginseng	



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Sr.No	Date	Topic Covered	% of Co
22.	6-5-2024	Garlic, pepper, Ephera Side effect / Dry intravenous	15
<u>Unit-III</u>	23.	07-5-2024 Herbal cosmetics: sources & description Fixed oils, waxes, gums.	
24.	8-5-2024	- colours, perfumes, protective agents.	
25.	13-5-2024	- bleaching agents, antioxidant (skin/Hair care) - Hygiene products.	
26.	15-5-2024	- Herbal excipients: colorants, sweeteners, binders, diluents, viscosity builders.	
27.	27-5-2024	- disintegrants, Flavors, Perfumes.	
28.	28-5-2024	- Herbal formulation :- conventional formula Syrups, mixtures, tablets	
29.	03-6-2024	- Novel dosage form :- phytosomes.	
30.	03-6-2024	Evaluation of WHO for assessment of Herbal drugs.	
<u>Unit-IV</u>	31.	05-6-2024 Evaluation of ICH Guidelines & stability testing. Herbal drugs.	
32.	08-6-2024	= Patenting & Regulatory Req: - defn, patent exp, - Farmer Right, Breeder's Right.	
33.	10-6-2024	- Farmer Right, Breeder's Right.	
34.	11-6-2024	- Bioprospecting & Biopiracy.	
35.	12-6-2024	- patent aspect :- Case Study: - curcumin, Neem.	
36.	17-6-2024	- Regulatory issues :- (ASU, DTAB, ASU DCC).	
37.	18-6-2024	- Regulation of mfg of ASU drugs.	
38.	19-6-2024	- schedule Z of Drugs & Cosmetics Act ASU Drugs.	
39.	20-6-2024	Herbal Drugs Industry: Present scope Future aspects.	15.5
<u>Unit-V</u>	40.	24-6-2024 - brief account on plant based industry & institutions working on Medicinal Plants.	
41.	25-6-2024	- schedule T - Good Mfg Practices of ISM.	
42.	25-6-2024	- components of schedule-T & its objectives.	
43.	26-6-2024	- Infrastructure requirement working space,	
44.	26-6-2024	- storage area, machinery, equipment,	
45.	27-6-2024	- Standard operating procedure, Health hygiene documentation record.	

NAME & SIGNATURE OF SUBJECT INCHARGE

Mr. Y. M. Bayad.

*[Signature]*  
Principal

*[Signature]*  
Am...



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## Academic Year 2021-22

SHREE SURESHDADA JAIN INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH,  
JAMNER, DIST JALGAON.  
ONLINE/ Offline LECTURES CONDUCTED IN ACADEMIC YEAR 2021-2022

Name of Subject with Code: Pharmaceutics - I (BP103T) Year & Sem: F.Y.B Pharm  
1<sup>st</sup> sem

Number of Lectures Prescribed: 45 Number of Lectures Conducted: 35

Name of Subject Teacher: Mr. P. S. Mahajan

Sr.No	Date	Topic Covered	% Syllabus Covered
1.	27-12-2021	History of pharmacy in India and education	92%
2.	28-12-2021	Pharmacy as career and pharmacopoeias	
3.	29-12-2021	USP and extra pharmacopoeia	
4.	01-01-2022	Dosage form - introduction	
5.	03-01-2022	Dosage form - classification, definitions	
6.	04-01-2022	Prescription- Introduction	
7.	05-01-2022	prescription- parts of prescription	
8.	10-01-2022	prescription- Handling and errors	
9.	12-01-2022	posology- Introduction, definition, factor	
10.	17-01-2022	Pediatric dose calculation, based on age	
11.	18-01-2022	Pharmaceutical calculation-Imperial & metric	
12.	19-01-2022	calculation involving percentage solution	
13.	19-01-2022	Isotonic sol <sup>n</sup> based on F.P and M.w.	
14.	24-01-2022	powder- definition, classification, advantages	
15.	25-01-2022	simple and compound powder-official preparation	
16.	31-01-2022	effervescent powder, hygroscopic, eutectic mix.	
17.	31-01-2022	Geometric dilution	
18.	01-02-2022	Liquid dosage form- introduction	
19.	02-02-2022	Excipient used in formulation of liquid dose.	
20.	07-02-2022	solubility enhancement technique	
21.	07-02-2022	Suppository -Introduction	



  
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Sr.No	Date	Topic Covered	% Syllab. Covered
22.	08-02-2022	Types of bases and method of preparation	15
23.	09-02-2022	Displacement value and its calculation	
24.	14-02-2022	Calculation and evaluation	15
25.	14-02-2022	evaluation of suppositories	
26.	15-02-2022	pharmaceutical incompatibilities- introduction	
27.	15-02-2022	pharmaceutical incompatibilities- classification	18
28.	16-02-2022	physical and chemical incompatibilities Ex.	
29.	16-02-2022	Semisolid dosage form - introduction	18
30.	21-02-2022	classification and mechanism- semisolid form	
31.	22-02-2022	Factor influencing penetration of drug	
32.	23-02-2022	preparation of ointment and paste	18
33.	23-02-2022	preparation of cream and gel	
34.	24-02-2022	Exipient use in semisolid dosage form	
35.	24-02-2022	evaluation of semisolid dosage form	
36.			
37.			
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39.			
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43.			
44.			
45.			

NAME & SIGNATURE OF SUBJECT INCHARGE

Mr. P.S. Mahajan  
*P. Mahajan*



*Shukla*  
 AMC



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**Academic Year 2022-23**

SHREE SURESHDADA JAIN INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH  
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 LECTURES CONDUCTED IN ACADEMIC YEAR 2022-2023

Name of Subject with Code: Physical Pharmaceutics Year & Sem: 9.Y., IV<sup>th</sup> Sem  
 Name of Subject Incharge: Ms. Swati B. Rathod.  
 Number of Lectures Prescribed: 45 Number of Lectures Conducted: 45

Sr.No	Date	Topic Covered	% Syllabus Covered
1.	19/12/22	unit -I colloidal dispersion	15%
2.	20/12/22	Classification of dispersed system & their general characteristics,	
3.	21/12/22	Size & shapes of colloidal particles,	
4.	26/12/22	classification of colloids	
5.	27/12/22	Comparative account of their general property. optical, kinetic & electrical.	
6.	28/12/22	Effect of electrolyte, Coagulation, peptization, protective action.	
7.	28/12/22	Unit -II Rheology	22.22%
8.	02/01/23	Newtonian system, law of flow, kinematic viscosity	
9.	03/01/23	Effect of temperature, Non-Newtonian system.	
10.	09/01/23	Pseudoplastic, dilatant, plastic flow	
11.	10/01/23	Thixotropy, thixotropy in formulation	
12.	11/01/23	Determination of viscosity - capillary,	
13.	16/01/23	Falling sphere & rotational viscometer.	
14.	17/01/23	Deformation of solid - plastic & elastic deformation, Heckel equation,	
15.	18/01/23	stress, strain, types of it.	
16.	24/01/23	Plastic Modulus.	
17.	24/01/23	unit -III	22.22%
18.	25/01/23	Coarse dispersion - Suspension,	
19.	25/01/23	Interfacial Properties of Suspended particles	
20.	06/02/23	Settling in Suspension	
21.	07/02/23	Formulation of flocculated & deflocculated Suspension	



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Sr.No	Date	Topic Covered	% Syllabus Covered	
22.	07/02/23	Emulsion & theories of emulsification,	22.22%	
23.	08/02/23	Microemulsion & multiple emulsion,		
24.	20/02/23	Stability of emulsion		
25.	21/02/23	Preservation of emulsion, rheological		
26.	22/02/23	Properties of emulsion & emulsion		
27.	27/02/23	Formulation by HLB method.		
28.	27/02/23	Unit IV Micromeritics Particle size, Particle size distribution,		
29.	28/02/23	Methods of determining particle		
30.	01/03/23	Size by different methods.		22.22%
31.	13/03/23	Counting & Separation method.		22.22%
32.	13/03/23	particle shape, specific surface,		
33.	14/03/23	Methods of determining surface		
34.	14/03/23	area, permeability, adsorption.		
35.	15/03/23	Derived properties of powders,		
36.	20/03/23	porosity, packing arrangement,		
37.	21/03/23	densities, bulkiness, flow properties,		
38.	21/03/23	Unit - V Drug stability & Reaction kinetics		
39.	27/03/23	Reaction kinetics, -2 <sup>nd</sup> order, pseudo-2 <sup>nd</sup>	22.22%	
40.	28/03/23	first & second order, Physical &		
41.	29/03/23	Chemical factors affecting, temp. Toxic		
42.	11/04/23	Strength, dielectric constant, Catalysis		
43.	12/04/23	Stability testing - Causes of instability,		
44.	12/04/23	Accelerated stability testing ICH		
45.	13/04/23	guidelines, types & limitations		

SUBJECT INCHARGE  
 MS. S. B. Rathod,

PRINCIPAL  
 Principal

ACADMIC MONITORING COMMITTEE  
 MRS. P. A. Borse

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Academic Year 2023-34

SHREE SURESHDADA JAIN INSTITUTE OF PHARMACEUTICAL EDUCATION AND  
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Lectures conducted in Academic year 2023-24

NAME OF SUBJECT WITH SUBJECT CODE (BP103T) Pharmaceutics-I YEAR AND SEM: First Year  
 NO. OF LECTURES PRESCRIBED: 45 NO. OF LECTURES CONDUCTED: 45

117

117

Lecture no.	Date	Topic Covered	% syllabus covered
1.	11/09/23	Historical background of development of profession of pharmacy	
2.	12/09/23	History of profession of pharmacy in india	
3.	13/09/23	Pharmacy education Industry & organization	
4.	18/09/23	Pharmacy as Career, Introduction to IP	
5.	20/09/23	BP & USP & extra pharmacopoeia	22-22%
6.	25/09/23	Introduction to dosage forms, classification	
7.	28/09/23	Definition & parts of prescription, handling of prescription.	
8.	27/09/23	Errors of prescription, Definition posology	
9.	02/10/23	Factor affecting posology.	
10.	04/10/23	Pediatric dose calculations, based on age, body weight, body surface area.	
11.	04/10/23	Pharmaceutical Calculation - weight & measure Imperial System & Metric System	
12.	06/10/23	calculation involving Percentage Solution alligation, proof spirit.	
13.	08/10/23	Isotonic solution based on freezing point & mole. wt.	
14.	09/10/23	powders - Definition & classification advantage & disadvantage	
15.	10/10/23	Simple & compound powders.	
16.	11/10/23	official preparation dusting powder, effervescent powder	22-22%
17.	16/10/23	Effervescent powder, Efflorescent powder, eutectic mixture.	
18.	17/10/23	Hygroscopic, Geometric dilution, Liquid dosage form - Advantages, Disadvantages	
19.	17/10/23	Excipients used in formulation of liquid dosage forms	
20.	18/10/23	Solubility enhancement technique.	
21.	28/10/23	Monophasic liquids - Definition & prep <sup>n</sup> Gargles, Mouthwashes, Throat-pain	
22.	28/10/23	Eardrops, Nasaldrops, Enemas, Symp Elixirs, Liniments, lotion.	
23.	28/10/23	Biphasic liquids - Suspension - Definition, Advantage & Disadvantage.	
24.	30/10/23	classifications, prep <sup>n</sup> of Suspension.	
25.	31/10/23	Flocculated & Deflocculated Suspension stability problems & method to overcome	
26.	01/11/23	Emulsions - Definitions classification, emulsifying agent.	
27.	01/11/23	Test for the identification of type of Emulsion	



*[Signature]*

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Unit	Sr. No.	Date	Topic	Percentage
Unit III	28.	02/11/23	Method of preparation & stability problem & method to overcome.	
	29.	03/11/23	Method of preparation Emulsion.	22.22
	30.	06/11/23	Stability problem & method to overcome.	
Unit IV	31.	07/11/23	Suppositories - Definition & types.	
	32.	08/11/23	Advantages & Disadvantages, types of Base.	
	33.	28/11/23	Method of prep <sup>n</sup> of suppositories.	
	34.	29/11/23	Displacement values & it's calculation	17.77
	35.	04/12/23	Evaluation of suppositories	
	36.	05/12/23	Evaluation of suppositories.	
	37.	06/12/23	Practical incompatibilities - Definition, classification, chemical incompatibility	
	38.	09/12/23	Physical incompatibilities Therapeutic incompatibilities with ex	
Unit V	39.	11/12/23	Semisolid dosage forms - Definitions, classification.	
	40.	12/12/23	Mechanism, factor influencing dermal penetration of drug	
	41.	13/12/23	Preparation of ointments, paste.	
	42.	17/12/23	prep <sup>n</sup> of paste, creams, gels.	15.55
	43.	18/12/23	prep <sup>n</sup> of creams, gels.	
	44.	19/12/23	Excipients used in semi solid dosage form	
	45.	20/12/23	Evaluation of semi solid dosage forms.	
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