



**BIRLA INSTITUTE OF TECHNOLOGY**  
**MESRA, RANCHI – 835215, INDIA**  
**Course Structure Session - 2016**  
**UNDERGRADUATE (Full Time)**

Program : **BACHELOR OF PHARMACEUTICAL SCIENCES**

Branch : **BACHELOR OF PHARMACY**

Semester : 1

Total Credits: 29

<b>Subject Code</b>	<b>Subject Title</b>	<b>Credit</b>
HU1101	TECHNICAL ENGLISH	3.00
CS1151	FUNDAMENTAL OF COMPUTERS	3.00
PS1401	PHARMACEUTICAL ANALYSIS - I	4.00
PS1403	PHARMACEUTICAL CHEMISTRY - I	4.00
PS1405	PHARMACEUTICAL MICROBIOLOGY	3.00
PS1402	PHARMACEUTICAL ANALYSIS LAB-I	2.00
PS1404	PHARMACEUTICAL CHEMISTRY LAB	2.00
PS1406	PHARMACEUTICAL MICROBIOLOGY LAB	2.00
ITP1002	FUNDAMENTAL OF COMPUTERS LAB.	2.00
<b>Activity</b>	<b>( CHOICE FOR ONLY ONE )</b>	
GA1002	NCC	1.00
GA1004	NSS	1.00
GA1006	PT & GAMES	1.00
GA1008	CREATIVE ARTS	1.00
<b>Elective - 1</b>	<b>( CHOICE FOR ONLY ONE )</b>	
MA1102	REMEDIAL MATHEMATICS	3.00
PS1407	REMEDIAL BIOLOGY	3.00



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Branch : **BACHELOR OF PHARMACY**

Semester : 2

Total Credits: 29

<b>Subject Code</b>	<b>Subject Title</b>	<b>Credit</b>
CH2203	ENVIRONMENTAL SCIENCE	3.00
MA2102	MATHEMATICS - I	4.00
PS2401	PHARMACEUTICAL ANALYSIS - II	3.00
PS2403	PHARMACEUTICAL INORGANIC CHEM	3.00
PS2405	PHARMACEUTICS	3.00
PS2407	HUMAN ANATOMY AND PHYSIOLOGY	4.00
PS2402	PHARMACEUTICAL ANALYSIS LAB-II	2.00
PS2404	PHARMACEUTICAL INORGANIC CHEM LAB	2.00
PS2406	PHARMACEUTICS LAB	2.00
PS2408	HUMAN ANATOMY AND PHYSIOLOGY LAB	2.00
<b>Activity</b>	<b>( CHOICE FOR ONLY ONE )</b>	
GA2002	NCC	1.00
GA2004	NSS	1.00
GA2006	PT & GAMES	1.00
GA2008	CREATIVE ARTS	1.00



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Branch : **BACHELOR OF PHARMACY**

Semester : 3

Total Credits: 27

<b>Subject Code</b>	<b>Subject Title</b>	<b>Credit</b>
CH1005	APPLIED PHYSICAL CHEMISTRY	3.00
MA3102	MATHEMATICS - II	4.00
PS3401	PHARMACY PRACTICE - I	3.00
PS3403	PHARMACEUTICAL CHEMISTRY - II	3.00
PS3405	PHARMACOGNOSY- I	3.00
PS3407	PHYSIOLOGICAL CHEMISTRY	4.00
PS3402	PHARMACY PRACTICE LAB - I	2.00
PS3404	PHARMACEUTICAL CHEMISTRY LAB – II	2.00
PS3406	PHYSICAL PHARMACEUTICS LAB	2.00
<b>Activity</b>	<b>( CHOICE FOR ONLY ONE )</b>	
GA3002	NCC	1.00
GA3004	NSS	1.00
GA3006	PT & GAMES	1.00
GA3008	CREATIVE ARTS	1.00



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Program : **BACHELOR OF PHARMACEUTICAL SCIENCES**

Branch : **BACHELOR OF PHARMACY**

Semester : 4

Total Credits: 27

<b>Subject Code</b>	<b>Subject Title</b>	<b>Credit</b>
PS4401	PHARMACEUTICAL SYSTEMS- I	3.00
PS4403	NATURAL MEDICINALS	3.00
PS4405	PHARMACOLOGY - I (GENERAL PHARMACOLOGY, TOXICOLOGY AND BIOASSAY)	3.00
PS4407	PHARMACOGNOSY - II	3.00
PS4409	PHARMACEUTICAL ENGINEERING-I	3.00
PSB4401	ORGANIZATIONAL BEHAVIOUR (HOSPITAL PHARMACY)	3.00
ME1102	PHARMACEUTICAL ENGINEERING DRAWING	2.00
PS4402	PHARMACY PRACTICE LAB - II	2.00
PS4404	PHARMACOGNOSY LAB - I	2.00
PS4406	PHYSIOLOGICAL CHEMISTRY LAB	2.00
<b>Activity</b>	<b>( CHOICE FOR ONLY ONE )</b>	
GA4002	NCC	1.00
GA4004	NSS	1.00
GA4006	PT & GAMES	1.00
GA4008	CREATIVE ARTS	1.00



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Program : **BACHELOR OF PHARMACEUTICAL SCIENCES**

Branch : **BACHELOR OF PHARMACY**

Semester : 5

Total Credits: 26

<b>Subject Code</b>	<b>Subject Title</b>	<b>Credit</b>
PS5401	PHARMACEUTICAL SYSTEM – II	3.00
PS5403	PHARMACOLOGY – II (NEUROPHARMACOLOGY)	3.00
PS5405	CHEMOTHERAPEUTIC AGENTS	3.00
PS5407	INSTRUMENTAL DRUG ANALYSIS	3.00
PS5409	PHARMACOGNOSY – III	3.00
PS5411	PHARMACEUTICAL ENGINEERING – II	3.00
PS5402	PRODUCT DEVELOPMENT LAB – I	2.00
PS5404	PHARMACOLOGY LAB – I	2.00
PS5406	NATURAL MEDICINALS LAB	2.00
PS5408	PHARMACEUTICAL ENGINEERING LAB	2.00



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Program : **BACHELOR OF PHARMACEUTICAL SCIENCES**

Branch : **BACHELOR OF PHARMACY**

Semester : 6

Total Credits: 26

<b>Subject Code</b>	<b>Subject Title</b>	<b>Credit</b>
MSH1131	PRINCIPLES OF MANAGEMENT	3.00
PS6401	INDUSTRIAL PHARMACY - I	3.00
PS6403	PHARMACOLOGY - III (SYSTEMIC PHARMACOLOGY)	3.00
PS6405	PHARMACOGNOSY - IV	3.00
PS6407	SYNTHETIC MEDICINALS -I	3.00
PSB 601	PROFESSIONAL ETHICS (PHARMACEUTICAL JURISPRUDENCE)	3.00
PS6402	PRODUCT DEVELOPMENT LAB - II	2.00
PS6404	PHARMACOLOGY LAB - II	2.00
PS6406	PHARMACOGNOSY LAB - II	2.00
PS6408	INSTRUMENTAL DRUG ANALYSIS LAB	2.00



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Program : **BACHELOR OF PHARMACEUTICAL SCIENCES**

Branch : **BACHELOR OF PHARMACY**

Semester : 7

Total Credits: 27

Subject Code	Subject Title	Credit
PS7401	INDUSTRIAL PHARMACY – II	3.00
PS7403	BIOPHARMACEUTICS & PHARMACOKINETICS	3.00
PS7405	SYNTHETIC MEDICINALS – II	3.00
PS7407	PHARMACOLOGY – IV (CHEMOTHERAPEUTIC PHARMACOLOGY)	3.00
PS7402	PRODUCT DEVELOPMENT LAB – III	2.00
PS7404	BIOPHARMACEUTICS LAB	2.00
PS7406	PROJECT	2.00
<b>Elective - 1</b>	<b>( CHOICE FOR ONLY ONE )</b>	
PS7409	COSMETIC TECHNOLOGY	3.00
PS7411	CLINICAL PHARMACOLOGY	3.00
PS7413	HERBAL FORMULATIONS & STANDARDIZATION	3.00
<b>Elective - 2</b>	<b>( CHOICE FOR ONLY ONE )</b>	
PS7415	PHARMACEUTICAL BIOTECHNOLOGY	3.00
PS7417	FUNDAMENTALS OF TISSUE CULTURE	3.00



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Program : **BACHELOR OF PHARMACEUTICAL SCIENCES**

Branch : **BACHELOR OF PHARMACY**

Semester : 8

Total Credits: 15

<b>Subject Code</b>	<b>Subject Title</b>	<b>Credit</b>
PS8403	DRUG DELIVERY SYSTEM	3.00
PS8402	PRODUCT DEVELOPMENT LAB - IV	2.00
PS8404	SYNTHETIC MEDICINALS LAB	2.00
PS8406	PROJECT	2.00
<b>Elective - 1</b>	<b>( CHOICE FOR ONLY ONE )</b>	
PS8405	DRUG DESIGN	3.00
PS8407	CLINICAL PHARMACY & DRUG INTERACTIONS	3.00
PS8409	QUALITY ASSURANCE & DRUG REGULATORY AFFAIRS	3.00
<b>Elective - 2</b>	<b>( CHOICE FOR ONLY ONE )</b>	
PS8411	FERMENTATION TECHNOLOGY AND BIOLOGICAL PRODUCTS	3.00
PS8413	PHARMACEUTICAL & BIOMEDICAL POLYMER	3.00