



# SREE DATTHA INSTITUTE OF PHARMACY

(Approved by AICTE & PCI, New Delhi, Affiliated to JNTU, Hyderabad)

Sagar Road, Sheriguda, Ibrahimpatnam, R.R.Dist.-501510

Ph.:08414-202206, 320919, 9393808082

www.sreedattha.org, E-mail: principalsdip@sreedattha.ac.in

**College Code: SDIP**

## COURSE OUTCOME ASSESSMENT PROCESS

### Attainment of Course Outcomes

The course outcomes were prepared by using action verbs of modified Bloom's Taxonomy. All the course outcomes are prepared in such a way that they are measured by means of written and oral skills, presentation etc. The various assessment processes used to gather data are as follows.

- i. **Internal (Mid) Examinations:** Two mid examinations are conducted for each year students in each semester as per the university (JNTU, Hyderabad) prescribed norms. Internal marks consist of mid theory paper, objective paper and assignment. It is expected that a student should score at least 15 marks (60%) out of 25 marks for the attainment of that course outcome.
- ii. **End semester university examinations:** The question paper for each course is set by the affiliated university. The students have to answer 5 questions out of given 8 questions. Since the answer scripts are retained by the university, the information regarding the attainment levels of each course outcomes cannot be ascertained. However, the marks scored by the students in the end semester examinations are used to assess the attainment level of the whole course and the same is transferred to each course outcome attainment level, while calculating the overall attainment level. It is expected that a student should score at least 40% of the maximum marks of the course (i.e. 30 out of 75) for the attainment of course outcomes.

S.No	Assessment tool	Maximum marks per question	Threshold level (%)	Attainment level criteria	Attainment level
1	Internal Exams	25	60%	At least 80% of attempted students surpass threshold level (60%) marks	3
				At least 60% - 79% of attempted students surpass threshold level (60%) marks	2
				Up to 59% of attempted	1



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				students surpass the threshold level (60%) marks	
2	University Exams	75	40%	At least 80% of attempted students surpass threshold level (50%) marks	3
				At least 60% - 79% of attempted students surpass threshold level (50%) marks	2
				Up to 59% of attempted students surpass the threshold level (50%) marks	1

## Final assessment of course outcomes

The final assessment level of a particular course outcome is calculated by giving 40% weightage to internal assessment tools and 60% weightage to end semester university examination. The following table illustrates the final attainment level calculation for all course outcomes.

Course outcome	Course outcome attainment level from internal assessment				Course outcome attainment level from university exams	Final attainment level
	Mid-1	Mid-2	Assignment	Average value		
CO-1	a <sub>1</sub>	b <sub>1</sub>	c <sub>1</sub>	$d_1 = a_1 + b_1 + c_1 / 3$	d <sub>1</sub>	$(0.6)c_1 + 0.4(d_1)$
CO-2	a <sub>2</sub>	b <sub>2</sub>				$(0.6)c_2 + 0.4(d_2)$
-----	-----	-----	-----	-----	-----	-----
CO-N	a <sub>n</sub>	b <sub>n</sub>	c <sub>n</sub>	d <sub>n</sub>	d <sub>n</sub>	$(0.6)c_n + 0.4(d_n)$



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## **Justification of weightage levels:**

It is to be observed that as per university guidelines 25% weightage is given to internal assessment and 75% weightage is given to external exam assessment. However, 40% weightage is given to course outcome attainment level from internal assessment because the average marks obtained in university examinations is lower than the average marks of internal marks. Also the faculty member is able to assess at micro level about the attainment of course outcomes.

## **Program Outcome Assessment Process**

Program Outcome attainment levels for all POs are set first and then attainment levels done as following methods

- A. Direct (student performance)
- B. Indirect(surveys):
  - i. Graduate exist survey
  - ii. Alumni survey
  - iii. Employer survey

POs attainment levels are Presented through program level Course-PO matrix as indicated. After defining course outcome, CO to PO mapping is done followed by setting of weightages for the same.

- i. **Graduate exit survey:** At the end of 4 years after graduation, a questionnaire is given to graduates to obtain feedback on the below mentioned parameters.

Awareness of POs

Relevance of course with respect to POs

Effectiveness of Co-curricular and extracurricular activities

Effectiveness of Infrastructural facilities towards the achievement of POs

Feedback on Industry-Institute interaction

Effectiveness of teaching and learning process

Suggestion for improvement

- ii. **Alumni survey:** A questionnaire is distributed to alumni members during the periodical meeting that are arranged by the program. Their feedback is obtained on below meeting parameters.

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Usefulness of the program of the course in their professional career

Need for introducing new courses in program to strengthen their career

Self-assessment of their POs after graduation

Suggestions for improvement

- iii. **Employer survey:** The program assessment committee meets the employers periodically to know the performance of the employed graduates. A questionnaire is distributed to the HR personal based on the following parameters.

Rating of the employed graduate based on each POs

Overall impression with regard to their effectiveness in the organization

Relevance of each of the courses with respect POs

Need for introducing industry demand courses

## **Overall PO assessment**

The final assessment level of a particular program outcome is calculated by giving 80% weightage to direct assessment and 20% weightage to indirect assessment.



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## CO attainment

### Co attainment for batch 2018-2019

#### B. Pharmacy 1st Year Semester - I

#### Consolidated: University + Internal Marks

Course code	Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved /required ) X 100	Attainment in scale 3
		100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required		
PS101	Human Anatomy and Physiology I	1.19	0.95	2.63	0.53	1.47	<b>1.95</b>	75.58	2.27
PS102	Pharmaceutical Analysis – I	1.43	1.15	2.13	0.43	1.57	<b>2.33</b>	67.39	2.02
PS103	Pharmaceutics I	2.14	1.712	2.25	0.45	2.14	<b>2.33</b>	77.97	2.34
PS104	Pharm. Inorganic Chemistry	1.36	1.09	1.43	0.29	1.37	<b>2.17</b>	63.24	1.90
HS105	C101.6 communication skills	1.36	1.09	1.43	0.29	1.37	<b>2.17</b>	63.24	1.90
PS108	Human Anatomy & Physiology – I Lab	2.67	2.13	2.81	0.56	2.70	<b>2.37</b>	100	3.00
PS109	Pharmaceutical Analysis – I Lab	2.72	2.18	2.72	2.72	0.54	<b>2.72</b>	100	3.00
PS110	Pharmaceutics-I Lab	2.25	1.80	2.56	0.51	2.31	<b>2.56</b>	90.33	2.71
PS111	Ph. Inorg. Chemistry – I Lab	2.42	1.94	2.42	0.48	2.42	<b>2.33</b>	100	3.00

#### B. Pharmacy 1st Year Semester - II

Course code	Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved / required) X 100	Attainment in scale 3
		100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required		
PS201	Human Anatomy and Physiology-II	1.32	1.05	1.46	0.29	1.34	<b>2</b>	67.25	2.02
PS202	Pharm. Organic Chemistry-I	1.00	0.80	1.80	0.36	1.16	<b>1.88</b>	61.70	1.85
BS203	Biochemistry	2.00	1.60	2.02	0.40	2.00	<b>2.2</b>	91.06	2.73
BS204	Pathophysiology	2.15	1.72	1.65	0.33	2.05	<b>2.5</b>	81.97	2.46
CS205	Computer application in Pharmacy	1.70	1.36	2.40	0.48	1.84	<b>2.25</b>	81.66	2.45
BS206	Environmental Science	1.16	0.93	1.49	0.30	1.23	<b>2</b>	61.31	1.84
PS207	Human Anatomy &	2.50	2.00	2.79	0.56	2.56	<b>2.5</b>	100	3.00



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	Physiology II Lab								
PS208	Pharmaceutical Organic chemistry I Lab	2.77	2.22	1.25	2.59	0.52	2.73	100	3.00
BS209	Biochemistry Lab	2.62	2.09	2.51	0.50	2.59	2.33	100	3.00
CS210	Computer Applications in Pharmacy Lab	2.87	2.30	2.79	0.56	2.86	2.37	100	3.00

## B. Pharmacy IInd Year Semester – I

Course code	Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved / required) X 100	Attainment in scale 3
		100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required		
PS301	Pharmaceutical Organic Chemistry – II	1.50	1.20	1.97	0.39	1.59	2.13	74.80	2.24
PS302	Physical Pharmacy-I	2.15	1.72	1.65	0.33	2.05	2.5	81.97	2.46
PS303	Pharmaceutical Microbiology	2.00	1.60	2.31	0.46	2.06	2.10	98.17	2.95
PC304	Pharmaceutical Engineering	2.15	1.72	1.65	0.33	2.05	2.5	81.97	2.46
PS305	Pharmaceutical Organic Chemistry – II Lab	2.54	2.03	2.65	0.53	2.56	2.44	100	3.00
PS306	Physical Pharmacy –I Lab	2.50	2.00	2.79	0.56	2.56	2.5	100	3.00
BS307	Pharmaceutical Microbiology Lab	2.96	2.37	2.72	0.54	2.91	2.41	100	3.00
PC301	Pharmaceutical Engineering Lab	2.75	2.20	2.73	0.52	2.72	2.14	100	3.00

## B. Pharmacy IInd Year Semester – II

Course code	Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved / required) X 100	Attainment in scale 3
		100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required		
PS401	Pharmaceutical Organic Chemistry-III	1.50	1.20	1.97	0.39	1.59	2.13	74.80	2.24
PC402	Medicinal Chemistry-I	1.16	0.93	1.49	0.30	1.23	2	61.31	1.84
PS403	Physical Pharmaceutics II	1.36	1.09	1.43	0.29	1.37	2.17	63.24	1.90
PC404	Pharmacology – I	1.60	1.28	2.27	0.45	1.73	2.13	81.20	2.44

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PC405	Pharmacognosy & Phytochemistry I	1.53	1.22	1.62	0.32	1.55	2.15	71.91	2.16
PC406	Medicinal Chemistry-I Lab	2.45	1.96	2.77	0.55	2.51	2.42	100	3.00
PS407	Physical Pharmaceutics-II Lab	2.43	1.94	2.32	0.46	2.40	2.33	100	3.00
PC408	Pharmacology-I Lab	2.43	1.94	2.32	0.46	2.40	2.3	100	3.00
PC409	Pharmacognosy and Phytochemistry-I Lab	2.54	2.03	2.65	0.53	2.56	2.44	100	3.00
MC400	Gender Sensitization Lab	1.95	1.56	2.23	0.45	2.00	2.05	97.69	2.93

## B. Pharmacy III<sup>rd</sup> Year Semester – I

Course code	Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved / required) X 100	Attainment in scale 3
		100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required		
PS501	Medicinal Chemistry-II	1.16	0.93	1.49	0.30	1.23	2	61.31	1.84
PS502	Industrial Pharmacy – I	1.43	1.15	2.31	0.46	1.61	2	80.35	2.41
PS503	Pharmacology – II	1.60	1.28	2.27	0.45	1.73	2.13	81.20	2.44
PS504	Pharmacognosy & Phytochemistry II	1.45	1.16	2.36	0.47	1.63	<b>2.13</b>	76.61	2.30
PS507	Cell and Molecular Biology	1.53	1.22	1.62	0.32	1.55	<b>2.15</b>	71.91	2.16
PS509	Industrial Pharmacy – I Lab	2.75	2.20	2.73	0.52	2.72	<b>2.14</b>	100	3.00
PS510	Pharmacology-I Lab	2.43	1.94	2.32	0.46	2.40	2.3	100	3.00
PS5111	Pharmacognosy and Phytochemistry-II Lab	2.86	2.29	2.08	0.42	2.71	<b>2.41</b>	100	3.00
MC500	Environmental Science	1.16	0.93	1.49	0.30	1.23	2	61.31	1.84

## B. Pharmacy III<sup>rd</sup>Year Semester – II

Course code/ Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved / required) X 100	Attainment in scale 3	
	100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required			
PS601	Medicinal Chemistry – III	1.16	0.93	1.49	0.30	1.23	<b>2</b>	61.31	1.84
PS602	Pharmacology – III	1.62	1.29	2.11	0.42	1.71	<b>2.3</b>	74.50	2.24
PS603	Herbal drug	1.53	1.22	1.62	0.32	1.55	<b>2.15</b>	71.91	2.16

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	Technology								
PS604	Biopharmaceutics & Pharmacokinetics	1.15	0.92	2.51	0.50	1.42	<b>1.9</b>	74.74	2.24
PS608	Screening Methods in Pharmacology	1.12	0.90	2.05	0.41	1.31	2.2	59.35	1.78
PS609	C601.7 Medicinal Chemistry III Lab	2.45	1.96	2.77	0.55	2.51	2.42	100	3.00
PS610	C601.9 Pharmacology – III Lab	2.43	1.94	2.32	0.46	2.40	2.3	100	3.00
PS611	Herbal Drug Technology Lab	2.90	2.32	2.52	0.50	2.82	2.14	100	3.00
MC600	Human Values and Professional Ethics	1.95	1.56	2.23	0.45	2.00	2.05	97.69	2.93

## B. Pharmacy IVthYear Semester – I

	Course code/ Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved / required) X 100	Attainment in scale 3
		100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required		
PC701	Pharmaceutical Analysis II	2.40	1.92	2.20	0.44	2.36	<b>2.42</b>	97.52	2.93
PC702	Biopharmaceutics & Pharmacokinetics	1.15	0.92	2.51	0.50	1.42	<b>1.9</b>	74.74	2.24
PC703	Pharmacology – III	1.28	1.02	2.03	0.41	1.43	<b>2.17</b>	65.67	1.97
PC704	Medicinal Chemistry – II	1.48	1.19	2.53	0.51	1.69	<b>1.98</b>	89.06	2.67
HS705	Pharmacy Administration	1.62	1.29	2.11	0.42	1.71	<b>2.3</b>	74.50	2.24
PC706	Pharmaceutical Analysis II Lab	2.42	1.94	2.42	0.48	2.42	<b>2.33</b>	100	3.00
PC707	Biopharmaceutics & Pharmacokinetics Lab	2.50	2.00	2.79	0.56	2.56	<b>2.47</b>	100	3.00
PC708	Medicinal Chemistry – II Lab	2.42	1.94	2.42	0.48	2.42	<b>2.33</b>	100	3.00
PC709	Seminar and Industrial visit	3.00	2.40		3.00	0.60	<b>3.00</b>	2.56	100





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## Pharmacy IVthYear Semester – II

	Course code/ Course name	University attainment		Sessional attainment		Attainment level		%Attainment (Achieved / required) X 100	Attainment in scale 3
		100%	80% (100% X 0.8)	100%	20% (100% X 0.8)	Achieved	Required		
PC801	Novel drug delivery systems	1.87	1.50	2.45	0.49	1.99	<b>2.12</b>	93.72	2.81
PC802	Clinical Pharmacy	1.66	1.33	2.04	0.46	1.79	<b>2.33</b>	76.64	2.30
PC803	Pharmaceutical Biotechnology	1.36	1.09	2.33	0.47	1.55	<b>2.15</b>	72.27	2.17
PC804	Pharmacognosy III	2.40	1.92	2.20	0.44	2.36	<b>2.42</b>	97.52	2.93
PC808	Novel drug delivery systems Lab	2.43	1.94	2.32	0.46	2.40	<b>2.3</b>	100	3.00
PC809	Pharmacognosy III	2.67	2.13	2.81	0.56	2.70	<b>2.3</b>	100	3.00
PC810	Major Project	2.42	1.94	2.42	0.48	2.42	<b>2.3</b>	100	3.00
OE806	Pharmacoepidemiology Pharmacoeconomics and pharmacovigilance	1.95	1.56	2.23	0.45	2.00	2.0 5	97.6 9	2.93



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## INDIRECT POs ATTAINMENT

<b>Graduate exit survey</b>											
	1	2	3	4	5	6	7	8	9	10	11
Level 1	24	30	33	16	33	41	38	33	14	13	23
Level 2	170	163	152	166	139	145	135	134	145	84	33
Level 3	36	33	48	45	33	27	36	48	42	36	39
Level 4											
Sum of the levels of POs	230	226	233	227	205	213	209	215	201	219	199
Total count of no. of survey	77	77	77	77	77	77	77	77	77	77	77
<b>Graduate exit survey</b>	2.99	2.94	3.03	2.95	2.66	2.77	2.71	2.79	2.61	2.66	2.58

<b>Alumni survey</b>											
	1	2	3	4	5	6	7	8	9	10	11
Level 1	33	45	42	36	33	27	36	48	45	33	42
Level 2	66	48	54	64	36	56	46	34	48	44	62
Level 3	116	118	122	112	121	115	112	118	93	127	80
Level 4											
Sum of the levels of POs	215	211	218	212	190	198	195	200	186	204	184
Total count of no. of survey	73	73	73	73	73	73	73	73	73	73	73
<b>Alumni</b>	2.95	2.89	2.99	2.90	2.60	2.71	2.66	2.74	2.55	2.79	2.52



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<b>survey</b>											
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<b>Employer survey</b>											
	1	2	3	4	5	6	7	8	9	10	11
Level 1	12	9	9	9	12	18	6	6	9	9	15
Level 2	16	18	14	18	14	16	24	18	14	12	10
Level 3	19	16	17	17	16	12	15	14	18	18	20
Level 4											
Sum of the levels of POs	47	43	40	44	42	46	45	38	41	39	45
Total count of no. of survey	16	16	16	16	16	16	16	16	16	16	16
<b>Employer survey</b>	2.94	2.69	2.50	2.75	2.63	2.88	2.81	2.38	2.56	2.44	2.81

<b>Indirect POs attainment</b>											
<b>Graduate exit survey</b>	2.99	2.94	3.03	2.95	2.66	2.77	2.71	2.79	2.61	2.66	2.58
<b>Alumni survey</b>	2.95	2.89	2.99	2.90	2.60	2.71	2.66	2.74	2.55	2.79	2.52
<b>Employer survey</b>	2.94	2.69	2.50	2.75	2.63	2.88	2.81	2.38	2.56	2.44	2.81
<b>Average</b>	<b>2.96</b>	<b>2.84</b>	<b>2.84</b>	<b>2.86</b>	<b>2.63</b>	<b>2.78</b>	<b>2.72</b>	<b>2.63</b>	<b>2.57</b>	<b>2.63</b>	<b>2.63</b>



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## Overall PO attainment

### Course- PO Attainment 2018 - 2019

Course code	Course name	Program outcomes											Average programme outcomes (max 3.00)
		1	2	3	4	5	6	7	8	9	10	11	
PS101	Human Anatomy and Physiology I	3	2.33	2.33	2	2	2.33	2	2	3	-	-	2.37
PS102	Pharmaceutical Analysis – I	3	-	1.8	1.6	-	-	-	-	-	-	2.2	2.15
PS103	Pharmaceutics I	3	-	2	1.75	-	3	1.25	-	-	-	3	2.33
PS104	Pharm. Inorganic Chemistry	3	-	2	1	-	-	-	-	-	-	-	2.00
HS105	C101.6 communication skills	3	-	-	2	-	1	-	3	-	-	2	2.37
PS108	Human Anatomy & Physiology – I Lab	3	2.33	2.33	2	2	2.33	2	2.33	3	-	-	2.37
PS109	Pharmaceutical Analysis – I Lab	2	3	2	2	2	2	-	2	-	-	-	2.44
PS110	Pharmaceutics-I Lab	3	2.67	2.33	1.67	2	1.67	-	2.7	-	-	-	2.56
PS111	Ph. Inorg. Chemistry – I Lab	2.67	3	2.67	2.33	2.67	2.33	-	3	-	-	-	2.67
PS201	Human Anatomy and Physiology–II	3	-	2	1	-	-	-	-	-	-	-	2.00
PS202	Pharm. Organic Chemistry-I	3	-	3	1	-	-	-	-	-	1	-	1.88
BS203	Biochemistry	3	-	-	2	-	-	-	-	1.5	2	-	2.13
BS204	Pathophysiology	2	-	1	2	-	-	-	-	-	-	-	1.66
CS205	Computer application in Pharmacy	1	-	3	2	-	-	-	-	-	-	3	2.25
BS206	Environmental Science	-	-	-	-	2	-	2	-	-	2	-	2.00
PS207	Human Anatomy & Physiology II Lab	3	2.33	2.33	2	2	2.33	2	2.33	3	-	-	2.37
PS208	Pharmaceutical	2	2.67	3	2	2.67	2	-	2	-	-	-	2.33



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	Organic chemistry I Lab												
BS209	Biochemistry Lab	2	2.67	3	2	2.67	2	-	2	-	-	-	2.33
CS210	Computer Applications in Pharmacy Lab	2	2	3	2	3	2	-	3	-	-	2	2.37
PS301	Pharmaceutical Organic Chemistry - II	2	-	2	2	-	-	-	-	-	-	-	2.13
PS302	Physical Pharmacy-I	3	-	2	2	-	-	-	-	-	-	3	2.5
PS303	Pharmaceutical Microbiology	3	-	-	1.2	-	-	2.2	-	-	-	2	2.10
PC304	Pharmaceutical Engineering	3	2	2.7	2	-	-	1.5	-	2	-	-	2.5
PS305	Pharmaceutical Organic Chemistry - II Lab	2	2.67	3	2	2.67	2	-	2	-	-	-	2.44
PS306	Physical Pharmacy -I Lab	3	-	2	2	-	-	-	-	-	-	3	2.5
BS307	Pharmaceutical Microbiology Lab	3	2.67	2.6	2	2	2.3	2.3	2.3	-	-	-	2.41
PC301	Pharmaceutical Engineering Lab	3	2	2.7	2	-	-	1.5	-	2	-	-	2.14
PS401	Pharmaceutical Organic Chemistry-III	2	-	2	2	-	-	-	-	-	-	-	2.13
PC402	Medicinal Chemistry-I	3	-	-	2	-	-	1	-	-	-	-	2.0
PS403	Physical Pharmaceutics II	2.5	-	2	2	-	-	-	-	-	-	-	2.17
PC404	Pharmacology - I	2.7	-	-	1.5	-	-	-	-	-	-	-	2.13
PC405	Pharmacognosy & Phytochemistry I	3	-	-	2	-	-	-	-	1.5	2	-	2.15
PC406	Medicinal Chemistry-I Lab	3	-	3	1	-	-	-	-	-	1	-	2.42
PS407	Physical Pharmaceutics-II Lab	2	2.67	3	2	2.67	2	-	2	-	-	-	2.33
PC408	Pharmacology-I Lab	3	2	-	-	-	-	2	-	-	-	-	2.3
PC409	Pharmacognosy and Phytochemistry-I Lab	3	-	-	2	-	-	-	-	1.5	2	-	2.15



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MC400	Gender Sensitization Lab	3	-	2	2	-	-	-	-	-	-	-	2.17
PS501	Medicinal Chemistry-II	2.8	-	-	2	-	-	1	-	-	-	-	1.98
PS502	Industrial Pharmacy – I	3	-	2	1	-	-	-	-	-	-	-	2.0
PS503	Pharmacology – II	3	2	-	-	-	-	2	-	-	-	-	2.3
PS504	Pharmacognosy & Phytochemistry II	3	-	-	2	-	-	-	-	1.5	2	-	2.13
PS507	Cell and Molecular Biology	3	-	-	1.2	-	-	2.2	-	-	-	2	2.10
PS509	Industrial Pharmacy – I Lab	3	-	2	1	-	-	-	-	-	-	-	2.0
PS510	Pharmacology-I Lab	3	2	-	-	-	-	2	-	-	-	-	2.3
PS5111	Pharmacognosy and Phytochemistry-II Lab	3	2.67	3	2	2	2.3	2.3	2	-	-	-	2.41
MC500	Environmental Science	-	-	-	-	2	-	2	-	-	2	-	2.00
PS601	Medicinal Chemistry – III	2.8	-	-	2	-	-	1	-	-	-	-	1.98
PS602	Pharmacology – III	2.5	-	2	2	-	-	-	-	-	-	-	2.17
PS603	Herbal drug Technology	3	2	-	-	-	-	2	-	-	-	-	2.3
PS604	Biopharmaceutics & Pharmacokinetics	3	-	2.4	2	-	1.6	2	1.2	-	-	1	1.9
PS608	Screening Methods in Pharmacology	3	3	3	2.5	2.5	3	1.25	2	-	-	-	2.53
PS609	C601.7 Medicinal Chemistry III Lab	3	3	3	2	2	-	1	2	-	-	-	2.3
PS610	C601.9 Pharmacology – III Lab	3	3	3	2.5	2.5	3	1.25	2	-	-	-	2.53
PS611	Herbal Drug Technology Lab	3	3	3	2	2	-	1	2	-	-	-	2.18
MC600	Human Values	-	-	-	-	-	2.5	-	2	2.5	-	2.3	1.91



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	and Professional Ethics												
PC701	Pharmaceutical Analysis II	2.4	-	2	1.6	-	-	2	-	-	-	2.2	2.4
PC702	Biopharmaceutics & Pharmacokinetics	3	-	2.4	2	-	1.6	2	1.2	-	-	1	1.9
PC703	Pharmacology – III	2.5	-	2	2	-	-	-	-	-	-	-	2.17
PC704	Medicinal Chemistry – II	2.8	-	-	2	-	-	1	-	-	-	-	1.98
HS705	Pharmacy Administration	3	2	-	-	-	-	2	-	-	-	-	2.3
PC706	Pharmaceutical Analysis II Lab	3	3	3	2	2	-	1	2	-	-	-	2.3
PC707	Biopharmaceutics & Pharmacokinetics Lab	3	-	2.4	2	-	1.6	2	1.2	-	-	1	1.9
PC708	Medicinal Chemistry – II Lab	3	3	3	2	2	-	1	2	-	-	-	2.3
PC709	Seminar and Industrial visit	3	-	2	1.6	-	-	2	-	-	-	2.2	2.17
PC801	Novel drug delivery systems	1.6	-	2	2	-	-	-	-	-	-	-	2.12
PC802	Clinical Pharmacy	2.8	-	2.4	1.8	-	-	2.4	-	-	-	2.2	2.32
PC803	Pharmaceutical Biotechnology	3	-	2	1.6	-	-	2	-	-	-	2.2	2.17
PC804	Pharmacognosy III	3	2	-	-	-	-	2	-	-	-	-	2.3
PC808	Novel drug delivery systems Lab	3	3	3	2	2	-	1	2	-	-	-	2.3
PC809	Pharmacognosy III	3	3	3	2.5	2.5	3	1.25	2	-	-	-	2.53
PC810	Major Project	3	3	3	2	2	-	1	2	-	-	-	2.3
OE806	Pharmacoepidemiology, Pharmacoeconomics and pharmacovigilance	2.8	-	2.4	1.8	-	-	2.4	-	-	-	2.2	2.32
<b>B. Pharm, Direct attainment (3 Max)</b>		2.30	2.04	2.00	1.85	2.00	2.03	1.96	2.01	1.80	1.09	1.70	



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		2	9		9							
<b>B. Pharm, Direct attainment (100%)</b>	7 6. 6 6	8 0 . . 7 8	6 9 . . 7 9	6 1. 5 6	6 9 . . 8 0	6 7. 7 9	65 .3 3	7 1. 8 4	59 .8 6	6 3. 5 6	5 6. 5 0	
<b>B. Pharm, Direct attainment (80%)</b>	6 1. 3 2 2	6 4 . . 6 2	5 5 . . 8 3	4 9. 2 5	5 5 . . 8 4	5 4. 2 3	52 .2 7	5 7. 4 7	47 .8 9	50 .8 4	4 5. 2 0	
<b>B. Pharm, Indirect attainment (20%)</b>	1 8. 9	1 6 . . 4 3	1 5 . . 2 4	1 5 . . 4 3	1 6 . . 4 3	1 7. 1 4	18 .0 2	1 6. 7 7	1 6 . . 1 1	16 .5 9	1 8. 5 7	
<b>Total attainment, %</b>	<b>80</b> <b>.2</b> <b>2</b>	<b>81</b> <b>.0</b> <b>5</b>	<b>71</b> <b>.0</b> <b>7</b>	<b>64</b> <b>.2</b> <b>5</b>	<b>72</b> <b>.2</b> <b>7</b>	<b>7</b> <b>1.</b> <b>3</b> <b>7</b>	<b>7</b> <b>0.</b> <b>2</b> <b>9</b>	<b>74</b> <b>.2</b> <b>4</b>	<b>64</b> <b>.0</b> <b>0</b>	<b>67</b> <b>.4</b> <b>3</b>	<b>63</b> <b>.7</b> <b>7</b>	





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