



PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013

REF. No. PU/SoE/EEE/BOS-09/2018-19/CIR02

Date: 16th April 2019

9th BOS MEETING NOTICE

The 9th Board of Studies (BoS) meeting of Department of Electrical and Electronics Engineering is scheduled on Saturday, 4th May 2019 at 10.00 AM in the university campus. You are hereby requested to attend the meeting.

Agenda:

- EEE 9.1 Approval of the Minutes of 8th BoS meeting
- EEE 9.2 Presentation of the Action Taken report of 8th BoS meeting
- EEE 9.3 Review and modifications if any for the Program Regulations and Curriculum (PRC) of 2018-2022, 2017-2021 and 2016-2020 batches.
- EEE 9.4 Approval of the amendments to the Program Regulations and Curriculum proposed for 2019-2023 batch.
- EEE 9.5 To shift the Open elective-II and Discipline elective-IV from 8th semester to seventh semester for 2016-20 batch.
- EEE 9.6 To shift the Open elective-I from 7th semester to 6th semester and Discipline Elective-IV & Open Elective -II from 8th semester to 7th Semester for 2017-21 batch and 2018-22 batch.
- EEE 9.7 To view if new Core courses, Discipline Elective Courses, Open Elective Courses and Value added courses can be added in the curriculum.
- EEE 9.8 To remove the elective Artificial Neural Networks (EEE-401) from the PRCs of all the batches.
- EEE 9.9 Approval of list of Examiners Internal [All Faculty] and External [Stream / Group wise] both
- EEE 9.10 Any other matter with the permission from the Chairperson.

Chairperson
BoS committee

Copy to:

Pro-Chancellor, PU

Registrar, PU

Dean-SoE, PU

Vice-Chancellor, PU

Pro-Vice-chancellor, PU

Dean-Academics, PU

City Office: University House, 8/1, King Street, Richmond Town, Bengaluru 560025

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✓ Members of the 9th BoS Committee:

1	Dr. Snehaprabha T V
2	Dr. P S Venkataramu
3	Dr Shobha Savanur
4	Mr. Abrar Ul Haq
5	Mr. K Sreekanth Reddy
6	Ms. Kavya P S
7	Ms. Geetha K (ECE Department)
8	Dr. Deepak S Sakkari (CSE Department)
9	Dr. Uma Rao K - External Member(Academic)
10	Dr. Rex Joseph- External Member(Academic)
11	Mr. John Justus- External Member (Industry)

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SCHOOL OF ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Ref. No.: PU/SOE/EEE/BOS-09/2018-19/MOM-01

Date: 4th May, 2019

Minutes of the 9th Meeting of Board of Studies (Electrical and Electronics Engineering – BOS – EEE)

The 9th meeting of Board of Studies (BOS) of the Electrical and Electronics Engineering is held today on 4th May, 2019 at 10.00 AM in Room No. MG 08.



The following members are present:

S. No.	Name	Designation with Affiliation	Status
1	Dr. Snehaprabha T. V	Professor & HoD, EEE, SoE, PU, Bengaluru	Chairperson
2	Dr. P S Venkataramu	Dean Academics, PU, Bengaluru	Internal Member
3	Dr Shobha R Savanur	Professor, EEE, SoE, PU, Bengaluru	Internal Member
4	Mr. Abrar Ul Haq	Assistant Professor, EEE, SoE, PU, Bengaluru	Internal Member
5	Mr. K Sreekanth Reddy	Assistant Professor, EEE, SoE, PU, Bengaluru	Internal Member
6	Ms. Kavya P S	Assistant Professor, EEE, SoE, PU, Bengaluru	Member Secretary
7	Dr. Deepak S Sakkari	Assistant Professor, CSE, SoE, PU, Bengaluru	Internal Member
8	Mrs. Geetha K	Assistant Professor, ECE, SoE, PU, Bengaluru	Internal Member
9	Dr. Rex Joseph	Professor, EEE, R.V. C. E, Bengaluru	External Member (Academic)
10	Dr Uma Rao	Associate Professor, EEE PES University, Bengaluru	External Member (Academic)
11	Mr John Justus	Assistant General Manager, Ashok Leyland Plant-I, Hosur 635126	External Member (Industry)

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The Chairman greeted the Members and called the meeting to order.

Agenda EEE 9.1: Approval of the Minutes of 8th BoS meeting

The Minutes of 8th meeting of the BoS held on 12th January, 2019 is unanimously approved by the members as shown in **Annexure EEE 9.1**

Agenda EEE 9.2: Action Taken Report of 8th BoS

The Action taken report of the 8th BoS Minutes was presented by the Chairperson and the same was noted and recorded. **Annexure EEE 9.2**

Agenda EEE 9.3: Review and modifications if any for the Program Regulations and Curriculum (PRC) of 2018-2022, 2017-2021 and 2016-2020 batches.

Dr Snehaprabha T V presented the details of the program regulations to the members. After thorough deliberations, the program regulations were approved.

Resolution: The program regulations of the Electrical and Electronics Engineering department for the Academic Year 2019-2020 is approved.

Agenda EEE 9.4: Approval of the amendments to the Program Regulations and Curriculum proposed for 2019-2023 batch.

The external members went through the features of Curriculum design and it was suggested to modify the same adding the key words 'sustainability' and 'environment'. For the appropriate justification of PEO's it was also suggested to map the objectives with the contents of the curriculum.

Resolution: This objective can be mapped with curriculum by adding student projects, additional lab experiments and a project assignment component for the theory subjects.

Agenda EEE 9.5: To shift the Open elective-II and Discipline elective-IV from 8th semester to seventh semester for 2016-20 batch.

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It is proposed for 2016-21 batch to shift the Open elective-II and Discipline elective-IV from the 8th semester, so that the students will have to concentrate only on industrial and professional practice (PIP-102).

Resolution: The committee members approved the same and was decided to make the necessary changes as per **Annexure EEE 9.3**

Agenda EEE 9.6: To shift the Open elective-I from 7th semester to 6th semester and Discipline Elective-IV & Open Elective –II from 8th semester to 7th Semester for 2017-21 batch and 2018-22 batch.

It is proposed for 2017-22 batch onwards to shift the Open elective-I from 7th semester to 6th semester and Discipline Elective-IV & Open Elective –II from 8th semester to 7th Semester, so that the students will have to concentrate only on industrial and professional practice (PIP-102) as shown in **Annexure EEE 9.3**.

Resolution: The committee members approved the same and was decided to make the necessary changes.

Agenda EEE 9.7: To view if new Core courses, Discipline Elective Courses, Open Elective Courses and Value added courses can be added in the curriculum.

A proposed list of discipline, open and value added courses were presented to the committee. The committee advised not to include courses like FACTS, since the technology has not taken off much since its origin. Modern power system analysis can be avoided for UG level. For the course special electric machines, it was suggested to avoid the special electric machines that are obsolete in today's world. It was suggested to make sensors and transducers as a discipline elective including the smart and active transducers of industrial importance.

It was suggested that the open elective course on Control systems may include the topics on process control and the course on Introduction to soft computing techniques may concentrate more on the engineering applications.

Resolution: It was decided to incorporate the suggestions wherever possible for open and discipline electives. The proposed and approved list of Discipline and open electives are shown in **Annexure EEE 9.3**.

Agenda EEE 9.8: To remove the elective course Artificial Neural Networks (EEE-401) from the PRCs of all the batches.

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As ECE Dept is offering the course 'Artificial Neural Networks' as Open elective, it was proposed to remove the course with course code 'EEE 401'- Artificial Neural Networks from EEE Dept curriculum .

Resolution: The committee has agreed for the same and 'Introduction to soft computing techniques' will be offered as open elective from EEE department.

Agenda EEE 9.9 Approval of list of Examiners - both Internal and External

The list of examiners for various courses were presented in front of the committee as shown in **Annexure EEE 9.3.**

Resolution: The same was approved

Agenda EEE 9.10 Any other matter with the permission from the Chairperson.

Dr. Uma Rao, the external board member recommended the faculty members to take up 'Information and Communication Technology' (ICT) courses for the enhancement of effective classroom delivery and also suggested to help the students learn the courses by using various software / hardware tools like Flex for Machine Design, instead of making the students refer the standard old text books. For the quality assurance of the PIP practice, Mr. John Justus the external board member (industry) suggested to have an assessment committee from the department. The committee also suggested to send the faculty members for training program in Industries to understand the recent advancements in technology, so that they can deliver more effectively to the students. The committee suggested to have external examiners from industry.

As BOS meetings for all the departments are taking place simultaneously in different venues today, the Chairman has requested the approval from the committee to incorporate modifications / alterations, if any, approved by the BOS committee of other departments for the existing courses offered in Electrical and Electronics Engineering by other departments. It is also informed by the Chairman that there is a possibility of some modifications in the syllabus of 1st year courses. The BOS Committee members of Electrical and Electronics Engineering has approved the proposal unanimously.





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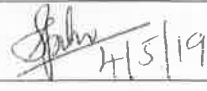
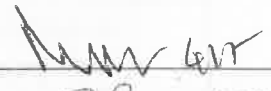
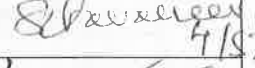



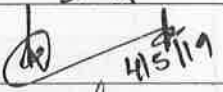

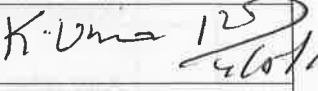
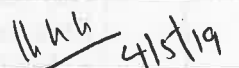
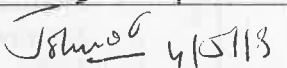
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The BOS Committee has authorized the BOS Chairperson and the subcommittee consisting of the internal members of the Electrical and Electronics Engineering department, to incorporate minor corrections / edits, if required.

The BOS Chairperson has conveyed that the decisions taken during the 9th meeting of BOS for Electrical and Electronics Engineering will be implemented wherever applicable for 2018-2022, 2017-2021, and 2016-2020 as early as possible.

She appreciated all the members for their active participation and valuable inputs. The chairperson concluded the session, with a thank you note to all the members and informed that the date of next BOS meeting will be notified soon.

BOS COMMITTEE MEMBERS:

S. No.	Name	Position	Signature with date
1	Dr. Snehaprabha T. V	Chairperson	 4/5/19
2	Dr. P S Venkataramu	Internal Member	
3	Dr. Shobha R Savanur	Internal Member	 4/5/19
4	Mr. Abrar Ul Haq	Internal Member	 4/5/19
5	Mr. K Sreekanth Reddy	Internal Member	 4/5/19
6	Ms. Kavya P S	Member Secretary	 4/5/19
7	Dr. Deepak S Sakkari	Internal Member	 4/5/19
8	Mrs. Geetha K	Internal Member	 4/5/19
9	Dr. Uma Rao K	External Member (Academic)	 4/6/19
10	Dr. Rex Joseph	External Member (Academic)	 4/5/19
11	Mr. John Justus	External Member (Industry)	 4/5/19

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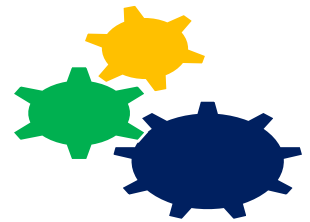

ANNEXURE EEE 9.4



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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

School of Engineering



Bachelor of Technology Degree

Program Regulations and Curriculum, 2019-2023

B.Tech. (Electrical and Electronics Engineering)

2019-2023





PROGRAM STRUCTURE of BTech EEE 2019-23

I SEM - PHYSICS CYCLE (Aug-Dec)#									
S. NO.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	MAT 105	Calculus and Linear Algebra	3	1	0	4	4	1	-
2	PHY 101	Engineering Physics	4	0	0	4	4	1	-
3	EEE 101	Elements of Electrical Engineering	3	0	0	3	3	2	-
4	CIV 101	Elements of Civil Engineering	3	0	0	3	3	2	7
5	MEC 152	Engineering Graphics	2	0	4	4	6	2	-
6	ENG 1XX	Humanities-I	2	1	0	3	3	1/3	-
7	PHY 151	Engineering Physics Lab	0	0	2	1	2	1	-
8	MEC 151	Workshop Practice	0	0	2	1	2	2	-
9	PPS 105	Building Self Confidence	0	0	2	1	2	3	-
		TOTAL	17	2	10	24	29		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, ¹⁰Knowledge Enhancement.

I SEM - CHEMISTRY CYCLE (Aug-Dec)#									
S. NO.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	MAT 105	Calculus and Linear Algebra	3	1	0	4	4	1	-




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2	CHE 101	Engineering Chemistry	4	0	0	4	4	1	-
3	ECE 101	Elements of Electronics Engineering	3	0	0	3	3	2	-
4	MEC 101	Elements of Mechanical Engineering	3	0	0	3	3	2	-
5	CIV 102	Environmental Science and Disaster Management	3	0	0	3	3	1	7
6	ENG 1XX	Humanities-I	1	0	2	2	3	3	-
7	CSE 151	Computer Programming	2	0	4	4	6	3	-
8	CHE 151	Engineering Chemistry Lab	0	0	2	1	2	1	-
9	PPS 105	Building Self Confidence	0	0	2	1	2	1	8/6
		TOTAL	19	1	10	25	30		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, ¹⁰Knowledge Enhancement.

II SEM - CHEMISTRY CYCLE (Jan-May)#

NO.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	MAT 106	Calculus, Differential Equations and Complex Variables	3	1	0	4	4	1	-
2	CHE 101	Engineering Chemistry	4	0	0	4	4	1	-
3	ECE 101	Elements of Electronics Engineering	3	0	0	3	3	2	-
4	MEC 101	Elements of Mechanical Engineering	3	0	0	3	3	2	-


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5	CIV 102	Environmental Science and Disaster Management	3	0	0	3	3	1	7
6	ENG 1XX	Humanities-II	1	0	2	2	3	3	-
7	CSE 151	Computer Programming	2	0	4	4	6	3	-
8	CHE 151	Engineering Chemistry Lab	0	0	2	1	2	1	-
9	PPS 106	Effective Communication	0	0	2	1	2	1	8/6
		TOTAL	19	1	10	25	30		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, , ¹⁰Knowledge Enhancement

II SEM - PHYSICS CYCLE (Jan-May)#

S. NO.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	MAT 106	Calculus, Differential Equations and Complex Variables	3	1	0	4	4	1	-
2	PHY 101	Engineering Physics	4	0	0	4	4	1	-
3	EEE 101	Elements of Electrical Engineering	3	0	0	3	3	2	-
4	CIV 101	Elements of Civil Engineering	3	0	0	3	3	2	7
5	MEC 152	Engineering Graphics	2	0	4	4	6	2	-
6	ENG 1XX	Humanities-II	2	1	0	3	3	1/3	-
7	PHY 151	Engineering Physics Lab	0	0	2	1	2	1	-
8	MEC 151	Workshop Practice	0	0	2	1	2	2	-

9	PPS 106	Effective Communication	0	0	2	1	2	3	-
		TOTAL	17	2	10	24	29		

Note: At the end of the 1st year (Common to all B.Tech programs) the total credits offered is 49.

The 1st year B.Tech Program structure is executed in two cycles.



* The students undergoing the "Physics" cycle shall take the Courses as indicated.

The students undergoing "Chemistry" cycle shall take the Courses as indicated.

III SEMESTER									
S. No.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	MAT 107	Transform Techniques, Partial Differential Equations and Probability	3	1	0	4	4	2	--
2	ECE 201	Analog Electronics	4	0	0	4	4	2	_
3	ECE 202	Signals and Systems	3	1	0	4	4	2	_
4	ECE 220	Digital Electronics	4	0	0	4	4	2	_
5	EEE 219	Network Theory	3	0	0	3	3	2	_
6	ECE 251	Analog Electronics Lab	0	0	2	1	2	2/2	_
7	ECE 264	Digital Electronics Lab	0	0	2	1	2	2/2	_
8	ECE 253	Signals and Systems Lab	0	0	2	1	2	3/2	_
9	PPS 107	Design Thinking and Team Building	0	0	2	1	2	2/3	8
		TOTAL	17	2	8	23	27		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, ¹⁰Knowledge Enhancement.

IV SEMESTER									
S. No.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	MAT 108	Numerical Methods, Probability Distributions and Sampling Techniques	3	1	0	4	4	2	_
2	EEE 204	Electromagnetic Theory	4	0	0	4	4	2	_
3	ECE 206	Linear Integrated Circuits	4	0	0	4	4	2	_
4	ECE 207	Microprocessor Programming and Interfacing	4	0	0	4	4	2	_
5	EEE 208	Electrical Machines - I	4	0	0	4	4	2	_
6	ECE 254	Linear Integrated Circuits Lab	0	0	2	1	2	2/5	_


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7	EEE 255	Electrical Machines Lab - I	0	0	2	1	2	2/3	-
8	ECE 256	Microprocessor Programming and Interfacing Lab	0	0	2	1	2	2/3	-
9	PPS 108	Being Corporate Ready	0	0	2	1	2	3	6/8
TOTAL			19	1	8	24	28		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, ¹⁰Knowledge Enhancement.



****NOTE: Students will undergo Professional Practice-I during the summer break between the fourth and fifth semesters and the credits earned will be accounted for in the fifth semester.**

* Student has to register for university learning courses in any one semester 5/ 6 to earn the mandatory credits.

V SEMESTER									
S. No.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	EEE 209	Electrical and Electronic Measurements and Instrumentation	4	0	0	4	4	2	-
2	EEE 210	Electrical Machines – II	4	0	0	4	4	2	-
3	EEE 205	Control Systems	3	1	0	4	4	2	-
4	EEE XXX	Discipline Elective – I	3	0	0	3	3		
5	MGT 112	Engineering Economics	3	0	0	3	3	2	
6	EEE 257	Electrical and Electronic Measurements and Instrumentation Lab	0	0	2	1	2	3/2	-
7	EEE 258	Electric Machines Lab – II	0	0	2	1	2	3/2	-
8	EEE 263	Computer aided design for Electric machine winding	0	0	2	1	2	3/2	-
9	SIC 501	Social Immersion Course*	0	0	0	1		-	9/7/8
10	PIP 101	Professional Practice– I **				5		3/2	6
TOTAL			17	1	6	26/ 27	24		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, ¹⁰Knowledge Enhancement.

VI SEMESTER									
S.N O.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	C			
1	EEE 212	Transmission and Distribution	3	1	0	4	4	2	-
2	ECE 213	Digital Signal Processing	3	1	0	4	4	2	-
3	EEE 214	Power Electronics	4	0	0	4	4	2	-


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4	MGT 113	Digital Entrepreneurship	3	0	0	3	3	4	-
5	EEE XXX	Discipline Elective – II	3	0	0	3	3		
6	XXX XXX	Open Elective-I	3	0	0	3	3		
7	EEE 259	Control System Lab	0	0	2	1	2	3/2	_
8	ECE 260	Digital Signal Processing Lab	0	0	2	1	2	3/2	_
9	EEE 261	Power Electronics Lab	0	0	2	1	2	3/2	_
10	SIC 501	Social Immersion Course*				1		_	9/7/8
		TOTAL	19	2	6	24/25	27		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, ¹⁰Knowledge Enhancement.

VII SEMESTER

S. No.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	CREDITS			
1	EEE 215	Power System Analysis	4	0	0	4	4	2	6
2	EEE 218	Power System Protection	4	0	0	4	4	2	-
3	EEE XXX	Discipline Elective – III	3	0	0	3	3		
4	EEE XXX	Discipline Elective – IV	3	0	0	3	3		
5	XXX XXX	Open Elective – II	3	0	0	3	3		
6	EEE 262	Power System Simulation Lab	0	0	2	1	2	2/3	
		TOTAL	17	0	2	18	19		

¹ Foundation Course; ² Professional Skills; ³ Employability Skills; ⁴ Entrepreneurship skills; ⁵ Research skills
⁶Sustainability Issues; ⁷ Environment Issues; ⁸ Professional Ethics; ⁹ Gender Equality, ¹⁰Knowledge Enhancement

VIII SEMESTER

S.No.	COURSE CODE	COURSE NAME	CREDIT STRUCTURE				CONTACT HOURS	TYPE OF SKILL	COURSE ADDRESSES TO
			L	T	P	C			
1.	PIP 102	Professional Practice - II	0	0	0	15		P/E	PE
		TOTAL	0	0	0	15	0		


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