

Faculty Deficiency in Engineering courses [B.Tech Electronic and Communication Engineering (ECE), Computer Science and Engineering (CSE) and Mechanical Engineering (ME) and M.Sc. Physics]

A. Engineering Courses

(1) As per the AICTE norms, the teacher-taught ratio is 1:15. In first year of the technology courses the subject matter includes two components i.e. core and Basic Sciences and Humanities subjects. The following table, computed from the course curriculum of HP University, Shimla, for the first year embodies 58 per cent course contents in basic sciences and humanities and the remaining 42 per cent belong to core subjects.

B.Tech. syllabi (Himachal University) First Year

Group A (CSE & IT)	Group B (ECE & EEE)
1. Applied Maths –I	1. Applied Maths –I
2. Applied Physics-I	2. Applied Physics-I
3. Engineering Graphics Drawing	3. Chemistry
4. Comm. & Professional Skills	4. Science, Technology & Society
5. Basic Electronics	5. Basic Electrical Engineering
6. Introduction to Computers & Programming in C	6. Basic Mechanical Engineering
Engineering Subjects = 03 Science/Hum. Subjects = 03	Engg. Subjects = 02 Science/Hum. Subjects = 04

Total Engineering Subjects in Group A & B = 05

Total Science/Humanities Subjects in Group A & B = 07

Weightage of Engineering Subjects = 42 %

Weightage of Science/Humanities Subjects = 58

(2) In engineering faculty, out of a total of 335 students registered till date (2009-10 and 2010-11), 252 belong to first year. According to AICTE norms, the engineering faculty requires 22 teachers whereas in Shoolini University the strength is 26, including four from biotechnology faculty. Details are summarized below.

AICTE norms regarding teacher: taught ratio = 1:15

Students detail	No.of students	Faculty as per norms	Faculty in position		
			Total	Core	Basic Sc.& Humanities
Total students registered	331	22	26	18	8
Total students strength in CSE, ECE & ME	192	13			
M.Tech. qualification			17	9	8
M.Tech+one B.Tech + 2 MCAs			20	12	8

(3) As per AICTE norms, eight teachers from basic sciences and humanities constitute the requirements. The details are given below.

1. Mr Virender Partap, Associate rofessor (Physics)
2. Dr Poonam Sharma, Assistant Professor (Maths)
3. Mr Neeraj Gandotra, Assistant Profesor (Maths)
4. Mr Srinivas Thota, Assistant Professor (Math)
5. Mr Pankaj Sharma, Assistant Professor (Chemistry)
6. Ms Shelly Thakur, Assisnat Professor (Communication Skill)
7. Ms Shailja Verma, Assistant Professor (Maths)
8. Mr :Sunil Kumar, Assistant Professor (Chemistry)

However, for the next academic session i.e. 2011-12, the following three teachers have been deputed for teaching of Physics to B.Tech first year students:-

- i) Mr Virender Pratap, Assistant Professor
- ii) Ms Parul Sharma, Assistant Professor
- iii) Ms Urvashi Verma, M.Sc. M.Phil, Assistant Professor

(4) For the remaining 42 per cent, one teacher each in mechanical engineering, ECE and CSE is the actual requirement.

The course-wise comments on the deficiency shown in the Inspection Committee Report are explained below:

1. Electronic and Communication Engineering:

The course was introduced in 2010-11 with 70 students, out of which 65 students are on roll for which one teacher is required to cater to the need of course work in first year. In second year i.e. 2010-11, another 29 students were admitted through lateral entry for which two more teachers is the requirement.

1. Er Himanshu Monga, M. Tech Associate Professor (Electronics)
2. Er Raj Kumar Saini, M.Tech, Associate Professor (Electrical Power System)
3. Es Jyoti Bhola M.Tch. Assistant Professor (Electronics)
4. Er Tarun Sharma, M.Tech (Communication Electronics)
5. Er Lalit Sharma, B.Tech. Teaching Assistant (Electronics)

New Appointments: Appointment letters issued, likely to join in July, 2011

6. Er Rajan Sharma, Associate professor, ECE
7. Er Raheem Khan, Assistant Prof. ECE
8. Er Parveen Kumar, Assistant Professor, ECE

Accordingly, there is no deficiency in the subject and the matter required reconsideration.

2. Department of Computer Science & Engineering:

The department started functioning in 2009-10 and a total of 30 students are representing the combined strength of first and second year. Five teachers were representing the department in 2010-11 in the core faculty. Of these, two are MCAs. (System analysts). Two more teachers have joined after inspection. The following teachers currently constitute the faculty.

1. Er Surinder Sharma, MCA, M.Tech, PGDBM, Associate Professor (CSE)
2. Er Pankaj Vaidya, ME, Associate Professor (CSE & EEE)
3. Er Madan Singh, M.Tech, Associate Professor (CSE)
4. Er Gaurav Gupta, M.Tech, Assistant Professor (IT)
5. Er Vandana Mohindru, M.Tech, Assistant Prof (CSE)
6. Ms Meenu Sood, M.Sc. BCA, System Analyst (IT)
7. Ms Bharti Thakur, MCA, System Analyst (IT)

New Appointments: Appointment letters issued, likely to join in July, 2011:

8. Er Tanvi Arora M.Tech, Associate Professor (CSE) (Likely to join shortly)
9. Er Mukesh Kumar, M.Tech Assistant Professor (Likely to join shortly)

Thus the departmental strength of three core teachers (along with two MCAs) and another three from basic sciences and humanities is higher than the AICTE requirement for a total of 30 students in 2010-11.

3. Department of Mechanical Engineering:

The Department was started in 2010-11 with 68 students and core faculty of two teachers and another three belong to Basic Sciences and Humanities. The following teachers are currently serving the core disciplines of the Department:

1. Er Vishall Jagota, ME, Assistant Professor (Mech Engg)
2. Er Gaurav Sharma, M.Tech, Assistant Professor (Mech. Engg)

New Appointments: Appointment letters issued, likely to join in July, 2011:

3. Er Mithilesh Sharma, ME, Assistant Professor (Mech Engg)
4. Er Snehsheet Sharma, M.Tech, Assistant Professor (Prod. Engg)
5. Er Praveen Sharma, ME, Assistant Professor, (Mech. Engg)
6. Er Amardeep Singh Kang, ME, Assistant Prof (Mech. Engg)

The indiction by the Inspection Committee cannot be substantiated from the aforesaid explanation.

4. M.Sc. Physics:

The degree programme was introduced in 2010-11 with 12 students. 19 credits constitute the teaching load in each semester. Three teachers, (one Professor, One Associate Professor and one teacher on contract basis) were responsible for imparting academic instructions to M.Sc. Physics. The allocated teaching load prescribed for a teacher is 18 hours a week by the UGC. Only two teachers were sufficient in first year. Two more teachers have joined recently. The current faculty includes the following teachers:-

1. Prof J.D.Sharma, Ph.D., Professor
2. Mr Rajesh Sharma, MSc. M.Phil. Assistant Professor
3. Mr Virender Pratapa,
4. Ms Parul Sharma, M.Sc. M.Phil, Assistant Professor
5. Ms Urvashi Verma, M.Sc. M.Phil, Assistant Professor
6. Dr Atul Thakur, Ph.D. Assistant Professor (Joined on 15-07-2011)
7. Dr Preeti Thakur, Assistant Professor Physics (Joined on 15-07-2011)
8. Mr Manish Kumar Singh, M.Sc. M.Tech

New Appointments: Appointment letters issued, likely to join in July, 2011:

9. Dr Yogyata Pathania, Ph.D

In view of the position explained above, the deficiency with regard to the faculty pointed out by the Inspection Committee may kindly be set aside and we may be allowed to start admission in these courses.

New Courses:

The Academic Council and the Board of Management of this University have approved to introduce the following new courses from the academic session 2011-12 as already intimated to your goodself vide this office letter No.SUBMS/11-5231 dated 24-02-2011 to permit the induction of three new courses of which M.Phil and Ph.D. Economics have been dropped while for Ph.D. Chemistry, permission stands granted during 2010-11 (four subjects i.e. Botany, Zoology, Chemistry and Physics).

- 1.M.Phil and Ph.D. in Economics,
2. B.Tech in Civil Engineering and
- 3.Ph.D in Chemistry

With regard to admission in B.Tech (Civil Engineering), it is to bring to your kind notice that necessary permission was sought immediately after the receipt of amendment in Section 31 of the Shoolini University Act, vide this office letter No.SUBMS/11-5231 dated 24-02-2011 (copy enclosed). After waiting for a considerable period, we advertised the B. Tech (Civil Engineering) course and have already admitted 45 students through entrance test in this course. The process of admission is further continuing.

It may be added that in B.Tech (Civil Engineering), the students would be studying in the first year of Engineering which is common to all branches of Engineering and courses in Basic Science are primarily taught in the first year and the University has adequate number of teachers and infrastructure. There is no course in core Civil engineering in the first year. At least one senior teacher will be appointed to develop the department in first year. Required infrastructure and faculty in Civil Engineering would be arranged subsequently as per the requirement in different semesters. The University is submitting an undertaking in this regard.

- (i) Since the deficiency shown in CSE, ECE and Mechanical Engineering is a case of misinterpretation, we may be allowed to undertake teaching in the aforesaid technology courses and M.Sc. Physics.
- (ii) The Civil Engineering, as a new subject, may also kindly be allowed to be introduced from the academic session 2011-12 in view of the position explained above.

VICE CHANCELLOR