

**Punjab Technical University, Jalandhar &  
Baba Farid University of Health Sciences, Faridkot**

**INFORMATION BROCHURE**

**Post Graduate Diploma in Hospital Engineering & Management**

**1. Introduction**

The average Indian hospital still continues to be under-developed. Most of our government hospitals are functioning in old dilapidated buildings and lack modern diagnostic and therapeutic equipments, proper emergency services, critical care areas, essential pharmaceuticals and supplies, referral support and resources, laundry, dietary, nursing services etc. High hospital infection rates and death rates are very common. One reason may be that hospital management is yet to be recognized as an important specialty. Further, there is hardly any hospital policy for the management of the government hospitals, which not only adversely affects patient care but also leads to a situation of crisis every now and then. To overcome these crises, the hospital authorities resort to ad-hoc solutions. Their approach remains what is more commonly known as management by crisis. In view of the above, there is an urgent need to train the concerned people in the hospitals set up to improve the management and functioning of the hospitals.

**2. Changing Requirements of Hospital Industry**

The service industry is one of the most charming as well as one of the fastest growing industries not only in India but also throughout the world. And when this industry is combined with the hospital industry then the onus reflected is more concrete and clear. With the growing importance of hospital industry in providing health care to people across the country, hospital management courses are also becoming popular. The government of India is also paying attention on providing health care in both rural and urban areas. The requirement of professional administrators in the hospitals is growing at a rapid pace primarily because the nature of work in hospitals is quite deferent from other organizations. Hospitals are expected to deliver quality service 24 hours a day at a minimal cost. The urgent nature of its work and the level of efficiency that is expected have increased the need of well-formulated hospital management courses throughout the world.

### **3. Concept of Hospital Engineering & Management**

Hospital Engineering & Management is a relatively new concept in the healthcare profession. Hospitals and nursing homes are growing in large numbers. The medical staff working in these hospitals find very little time to handle non-medical day-to-day administrative affairs. Moreover, handling of such tasks requires management and professional skills which need constant devotion and up gradation. Earlier a senior doctor used to perform the role of a hospital manager. However, nowadays it is increasingly becoming very difficult for doctors to spare time for such things. Thus, the delivery of effective health care services requires trained professionals.

Advances in engineering and information technology in the recent years have brought about several changes in the field of medical science. Medical equipment plays a very significant role in the healthcare delivery system. Sophisticated biomedical equipment requires a host of utilities air conditioning and refrigeration, stabilized power supply systems, etc. Today, 'Hospital engineering' is an important branch of hospital management. Biomedical and maintenance engineers have a vital role in ensuring maximum equipment utilization and minimum downtime.

### **4. Course Objective**

The specific objective of the PGDHEM course is to prepare a competent workforce of hospital managers who have basic knowledge and skills of efficiently planning, managing and maintaining the physical environment, hospital building maintenance, equipment and systems for health care, plant operations, clinical engineering, biomedical engineering, safety technology and telecommunications. Such professionals shall be well trained to solve the rising challenges and specific necessities of modern day hospitals.

### **5. Scope of Work for a Hospital Manager**

A hospital manager is overall incharge of administrative affairs of the hospital. He takes over the charge of various aspects of health administration and hospital administration vis-a-vis patients and health care. It envisages professional responsibility in various aspects - planning and control, management of the medical staff, demography and biostatics, management and research in health care, epidemiology and community health and strategic management. The nature of the job requires a number of qualities and essential attributes. The person should have decision - making capability based on up-to-date management principles and

techniques. This envisages planning of future requirements like material, technical and financial. One should also be well versed with financial forward planning and should be responsible enough for the maintenance of the building.

## 6. PG Diploma in Hospital Engineering & Management

Looking into the fast expansion of healthcare organizations in the country, there is growing need of human resources for efficient management of hospital systems. Therefore, in order to meet the demand of professionals for healthcare management, the Punjab Technical University, Jalandhar and Baba Farid University of Health Sciences, Faridkot have signed an MOU to offer the following joint Postgraduate Course in Healthcare Management and Technology. The admission for this course will be made in May/June 2012 for the academic session beginning in July/August 2012.

Name of Course	Duration	No. of Seats	Eligibility for Admission
Postgraduate Diploma in Hospital Engineering & Management	One Year	25	BE/BTech/BArch/MBBS/BDS/BPT/ or BSc-Nursing

## 7. Salient Features of the Course

- This course is full time, fully residential courses. Hostel facilities shall be provided to the desirous candidates.
- This courses shall have 50 : 50 Engineering and Medical curriculum.
- This course shall be of one year (two semesters) duration, with one semester of study each at PTU, GZS Campus, Bathinda, and SGGS Medical College, Faridkot.
- The Engineering component of the above course shall be conducted at PTU, Giani Zail Singh Campus, Bathinda.
- The Medical component of the above course shall be conducted at Guru Gobind Singh Medical College, Faridkot.
- The diploma offered to the candidates at the completion of the course shall be signed by Vice-chancellors of both the universities.
- Reservation of seats shall be as per Punjab Govt. rules.

## 8. Teaching Schedule and Study Scheme

### 1<sup>st</sup> Semester

(At PTU Giani Zail Singh Campus, Bathinda)

Sr. No.	Subject Code	Subject	Load Allocation			Marks Distribution		Total Marks
			L	T	P	Internal	External	
1	DHEM-101	Hospital Planning	3	1	-	50	100	150
2	DHEM-102	Hospital Management	3	1	-	50	100	150
3	DHEM-103	Hospital Facilities Management	3	1	-	50	100	150
4	DHEM-104	Hospital Maintenance	3	1	-	50	100	150
5	DHEM-105	Hospital Management Control System	3	1	-	50	100	150
Total			15	5	-	250	500	750

### 2<sup>nd</sup> Semester

(At GGS Medical College, Faridkot)

Sr. No.	Subject Code	Subject	Load Allocation			Marks Distribution		Total Marks
			L	T	P	Internal	External	
1	DHEM-201	Basic Medical Sciences (Part – 1)	3	1	-	50	100	150
2	DHEM-202	Basic Medical Sciences (Part – 2)	3	1	-	50	100	150
3	DHEM-203	Social Psychology	3	1	-	50	100	150
4	DHEM-204	Medicine	3	1	-	50	100	150
5	DHEM-205	Surgery	3	1	-	50	100	150
Total			15	5	-	250	500	750