



**KARPAGAM ACADEMY OF HIGHER EDUCATION**  
 (Deemed to be University Established Under Section 3 of UGC Act 1956)  
**Pollachi Main Road, Eachanari Post,**  
**Coimbatore – 641 021**  
**FACULTY OF ENGINEERING**  
**DEPARTMENT OF BIOMEDICAL ENGINEERING**

**LECTURE PLAN**

**NAME OF THE STAFF** : Ms. S. SREE SANJANAA BOSE  
**DESIGNATION** : ASSISTANT PROFESSOR  
**CLASS** : B.E-IV YEAR BME  
**SUBJECT** : PATIENT AND DEVICES SAFETY  
**SUBJECT CODE** : 16BEBME7E03

S.No	TOPICS TO BE COVERED	TIME DURATION	SUPPORTING MATERIALS	TEACHING AIDS
<b>UNIT-I STANDARDIZATION OF QUALITY MEDICAL CARE IN HOSPITALS</b>				
1	Quality	01	T1, Page no. 1 to 5	PPT
2	Need for Standardization	01	<a href="https://www.beckershospitalreview.com/healthcare-information-technology/variation-in-healthcare-delivery-the-need-for-standardization.html">https://www.beckershospitalreview.com/healthcare-information-technology/variation-in-healthcare-delivery-the-need-for-standardization.html</a>	PPT
3	Quality Management	01	<a href="http://article.sciencepublishinggroup.com/html/10.11648.j.sjph.20160404.11.html">article.sciencepublishinggroup.com/html/10.11648.j.sjph.20160404.11.html</a>	PPT
4	TQM in Health care organization	02	<a href="https://mpira.ub.uni-muenchen.de/77681/">https://mpira.ub.uni-muenchen.de/77681/</a>	PPT
5	Quality assurance methods	02	C.B. Gupta “Management Theory and Practice” 11 Edition	PPT
6	Q A in (Medical Imaging & Nuclear medicine)	01	<a href="https://research.columbia.edu/sites/default/files/content/EHS/Policies/QA.PDF">https://research.columbia.edu/sites/default/files/content/EHS/Policies/QA.PDF</a>	PPT
7	Diagnostic services - Classification of equipments	01	<a href="http://www.aerb.gov.in/AERBPortal/pages/English/t/XRay/forms/QAIRCArm.doc">http://www.aerb.gov.in/AERBPortal/pages/English/t/XRay/forms/QAIRCArm.doc</a>	PPT

<b>Introduction</b>	<b>01</b>
<b>Total Lecture Hours</b>	<b>09</b>
<b>Total Hours</b>	<b>10</b>

<b>UNIT-II REGULATORY REQUIREMENT FOR HEALTH CARE</b>				
8	FDA regulations	01	<a href="https://www.fda.gov/media/89070/download">https://www.fda.gov/media/89070/download</a>	PPT
9	Accreditation for hospitals	01	<a href="http://www.jli.edu.in/blog/importance-of-accreditation-of-hospitals-in-healthcare">www.jli.edu.in/blog/importance-of-accreditation-of-hospitals-in-healthcare</a>	PPT
10	JCI	02	<a href="https://www.jointcommissioninternational.org/about-jci/jci-accredited-organizations/">https://www.jointcommissioninternational.org/about-jci/jci-accredited-organizations/</a>	PPT
11	NABH	02	<a href="https://www.qcin.org/nabh/faqs.php">https://www.qcin.org/nabh/faqs.php</a>	PPT
12	NABL	02	<a href="https://www.nabl-india.org/">https://www.nabl-india.org/</a>	PPT
13	Other regulatory Codes	01	<a href="https://c.ymcdn.com/sites/www.qhrlearninginstitute.com/resource/resmgr/_2016IHANQD BC/20160112_-_03_-_Tuminaro_-_H.pdf">https://c.ymcdn.com/sites/www.qhrlearninginstitute.com/resource/resmgr/_2016IHANQD BC/20160112_-_03_-_Tuminaro_-_H.pdf</a>	PPT
<b>Total Lecture Hours</b>		<b>09</b>		
<b>Total Hours</b>		<b>09</b>		

<b>UNIT-III HOSPITAL SAFETY</b>				
14	Security & Safety of Hospital - Property, Staff & Patients	02	<a href="https://www.betterhealth.vic.gov.au/health/servicesandsupport/security-and-safety-at-hospital?viewAsPdf=true">https://www.betterhealth.vic.gov.au/health/servicesandsupport/security-and-safety-at-hospital?viewAsPdf=true</a>	PPT
15	Radiation safety	01	<a href="https://aerb.gov.in/english/radiation-protection-principle">https://aerb.gov.in/english/radiation-protection-principle</a>	PPT
16	Safety precautions, hazardous effects of radiation, allowed levels of radiation,	02	<a href="https://aerb.gov.in/english/radiation-protection-principle">https://aerb.gov.in/english/radiation-protection-principle</a>	PPT
17	ICRP regulations for radiation safety.	02	<a href="http://www.icrp.org/docs/Scope_of_rad_prot_draft_02_258_05v06.pdf">www.icrp.org/docs/Scope_of_rad_prot_draft_02_258_05v06.pdf</a>	PPT
18	Disposal of Biological waste	02	<a href="http://www.ehs.ufl.edu/programs/bio/waste/biowaste_policy/">http://www.ehs.ufl.edu/programs/bio/waste/biowaste_policy/</a>	PPT
<b>Total Lecture Hours</b>		<b>09</b>		
<b>Total Hours</b>		<b>09</b>		

<b>UNIT-IV ELECTRICAL &amp; FIRE SAFETY</b>				
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19	Sources of shocks	01	<a href="http://www.baronpower.com/hospital-safety-systems/">http://www.baronpower.com/hospital-safety-systems/</a>	PPT
20	Micro shocks -Hazards	01	<a href="https://www.egr.msu.edu/classes/ece445/mason/Files/3-Safety_ch14.pdf">https://www.egr.msu.edu/classes/ece445/mason/Files/3-Safety_ch14.pdf</a>	PPT
21	Monitoring and interrupting the Operation from leakage current	02	<a href="https://carelabz.com/what-leakage-current-testing-measuring-how-leakage-current-testing-measuring-done/">https://carelabz.com/what-leakage-current-testing-measuring-how-leakage-current-testing-measuring-done/</a>	PPT
22	Elements of fire	01	<a href="https://www.nabh.co/Images/PDF/Fire_Safety_NABH.pdf">https://www.nabh.co/Images/PDF/Fire_Safety_NABH.pdf</a>	PPT
23	Causes of fire	01	<a href="https://www.nabh.co/Images/PDF/Fire_Safety_NABH.pdf">https://www.nabh.co/Images/PDF/Fire_Safety_NABH.pdf</a>	PPT
24	Action to be taken in case of fire in a Hospital.	02	<a href="https://www.nabh.co/Images/PDF/Fire_Safety_NABH.pdf">https://www.nabh.co/Images/PDF/Fire_Safety_NABH.pdf</a>	PPT
<b>Total Lecture Hours</b>		<b>08</b>		
<b>Total Hours</b>		<b>08</b>		

<b>UNIT-V ASSESSING QUALITY HEALTH CARE</b>				
25	Patient Safety Organization	02	<a href="https://www.ahrq.gov/cpi/about/otherwebsites/pso.ahrq.gov/index.html">https://www.ahrq.gov/cpi/about/otherwebsites/pso.ahrq.gov/index.html</a>	PPT
26	Governmental & Independent	01	<a href="https://www.ecri.org/solutions/pso">https://www.ecri.org/solutions/pso</a>	PPT
27	Measuring Quality care	01	<a href="https://www.ahrq.gov/professionals/quality-patient-safety/quality-resources/tools/chtolbx/understand/index.html">https://www.ahrq.gov/professionals/quality-patient-safety/quality-resources/tools/chtolbx/understand/index.html</a>	PPT
28	Evaluation of hospital services – six sigma way,	01	<a href="https://draminu.com/six-sigma-in-healthcare/">https://draminu.com/six-sigma-in-healthcare/</a>	PPT
29	Quality Assurance in Hospitals Sop's	02	<a href="https://nhsrindia.org/sites/default/files/Draft%20SOPs%20for%20Hospital.Management.pdf">nhsrindia.org/sites/default/files/Draft%20SOPs%20for%20Hospital.Management.pdf</a>	PPT
30	Patient Orientation for Total Patient Satisfaction.	01	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5734521/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5734521/</a>	PPT
31	5S techniques	01	Standardization in patient safety: the WHO High 5s project	PPT
<b>Total Lecture Hours</b>		<b>09</b>		
<b>Total Hours</b>		<b>09</b>		

Total No of Hours for Introduction: 01 Hrs

Total No of Lecture Hours Planned: 44 Hrs

**Total No of Hours Planned : 45 Hours**

**TEXT BOOKS:**

<b>S.NO.</b>	<b>Author(s) Name</b>	<b>Title of the book</b>	<b>Publisher</b>	<b>Year of the publication</b>
1.	D.R. Kiran	Total quality management: Key concepts and case studies.	BS Publications	2016