**SARDAR PATEL UNIVERSITY**
**Vallabh Vidyanagar, Gujarat**
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)**
**Syllabus with effect from the Academic Year 2021-2022**

(Master of Science in Quality and Productivity Management) (Master of Science)
(M. Sc.)  (QPM) Semester (II)

| Course Code | PS02CQPM53 | Title of the Course | Integrated Management System |
|---|---|---|---|
| Total Credits of the Course | 04 | Hours per Week | 04 |

| Course Objectives: | 1. Understand the Quality Management System concepts like customer Focus, Employee Focus and their involvement, continuous process improvement and Supplier Management. |
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| | 2. Detailed exposure to students on various quality systems like ISO and its Standards. |
| | 3. Assess where an organization stands on quality management with respect to the ISO 9001, 14001, and 45001 standards. |

| Course Content | | |
|---|---|---|
| Unit | Description | Weightage* (%) |
| 1. | ISO 9001:15 Quality Management System Overview: History and current status of ISO 9001 around the globe · Understanding the ISO 9001:2015 requirements Standard, How to plan for ISO 9001 implementation, · Changes to the 2008 ISO 9001 Standard and their effects. · <br><br> ISO 9001 Quality Management System Documentation: Review of the ISO 9001 requirements for system documentation · Structure of a documented quality system · Development of a documentation strategy · Use of a standard organization and format that is readable and clear · Appropriate level of detail at each documentation tier · Techniques to achieve major savings in time and cost · Techniques for reducing resource requirements for document control. | 25 |
| 2. | ISO Standard Internal Quality Auditing:  Analysis of the four requirements related to internal quality auditing · Designing an internal quality audit program · Effective auditing techniques · Completing a full audit through live audit simulation exercises · Evaluating the significance of audit findings · Improving communication skills during the audit presentation. · Reporting the findings and evaluations. <br><br> Types of Audit, Concepts of third-party registration, choosing the right registrar for your organization, Process of Third party registration, Effects of ISO registration on a company. | 25 |

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| 3. | ISO 9001:2015 AUDITOR/LEAD AUDITOR TRANSITION: A brief discussion on transition from ISO 2000 to ISO 9001:2008 and recent transitions. <br><br> AS 9100 Aerospace Quality Management System Overview: AS 9000 was revised and renamed AS 9100 on November 1, 1999. Aircraft manufacturers may flow this standard down to all levels of suppliers.  Key Topics include: Understanding AS 9100 requirements · Major differences between AS 9100 and ISO 9000 · Effects of AS 9100 on your company <br><br> ISO/TS 16949 Automotive Quality Management System Overview: Key topics: History and current status of QS 9000 around the globe · Understanding the requirements of the ISO/TS 16949 standard · How ISO/TS 16949 requirements go beyond the basic IS0 9000 standard · Description of the minimum quality system requirements that the Big Three auto manufacturers expect of their suppliers · Effects of ISO/TS 16949 registration on your company. | 25 |
| 4. | ISO 14000 Environmental Quality Management System Overview: Key Topics: Understanding ISO 14001 requirements · Effects and benefits of ISO 14001 on your company · Implementation of ISO 14001 · Meeting ISO 14001 auditing requirements · Registering to ISO 14001. <br><br> OHSAS ISO 45000 Occupational Health and Safety Management System:  Scope, Terms and Definitions, OH and S Management System Elements, General Requirements, OH and S Policy, Planning, Implementation and Operation, Checking an Corrective Action, Management Review. Understand The Challenges Of Transitioning From OHSAS 18001 To ISO 45001 | 25 |

| Teaching-Learning Methodology | Lectures, Live Exercise, Case studies, ICT Tools |
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| Evaluation Pattern | | |
|---|---|---|
| Sr. No. | Details of the Evaluation | Weightage |
| 1. | Internal Written / Practical  Examination (As per CBCS R.6.8.3) | 15% |
| 2. | Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3) | 15% |

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| 3. | University Examination | 70% |
|---|---|---|

| Course Outcomes: Having completed this course, the learner will be able to | |
|---|---|
| 1. | Describe map for implementation of the Quality designs. |
| 2. | Ability to Develop analytical skills for investigating and analyzing quality management Issues in the industry and suggest implement able solutions to those. |
| 3. | Develop an understanding on quality management philosophies and frameworks |

| Suggested References: | |
|---|---|
| Sr. No. | References |
| 1. | Chakravarti, A. K.,.Basu, P. K. and Chakravarti, S. C. ( 2005). ISO 9001:2000 (Implementation, Improvement Tools Techniques, Transition To TQM), Asian Books. |
| 2. | Block, M. and Marash, R. ( 2001). Integrating ISO 14001 into a Quality Management System, 2nd Ed., ASQ Quality Press. |
| 3. | Singhal, D. and Singhal, K. R. ( 2008). Implementing ISO 9001:2000 Quality Management System, Prentice Hall India. |
| 4. | Cascio, P., Woodside, G. and Mitchell, P. (1996 ). ISO 14000 Guide: The New International Environmental Management Standards, McGraw-Hill |
| 5. | International Standard ISO 9001 (Quality Management System), ISO 14001 (Environment Management Systems), ISO 45001 (Occupational Health and Safety Assessment Series) |

| On-line resources to be used if available as reference material |
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| On-line Resources |
| International Organisation for Standardisation https://www.iso.org/certification.html |
| ISO Implementation Procedures https://www.isoguide.com/categories/iso-9001 |
| Quality Resources Online [Bill Casti's "Mother of all Quality pages"] |

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