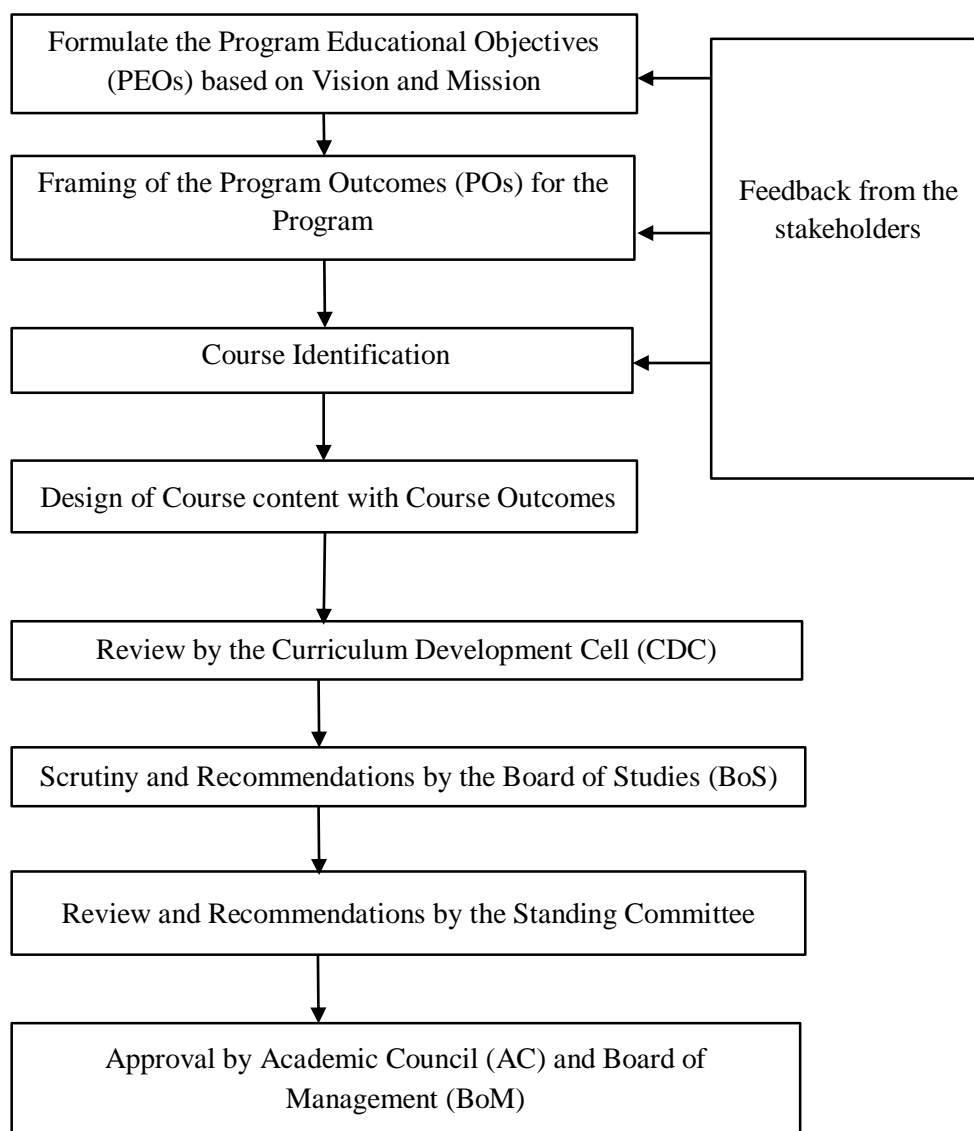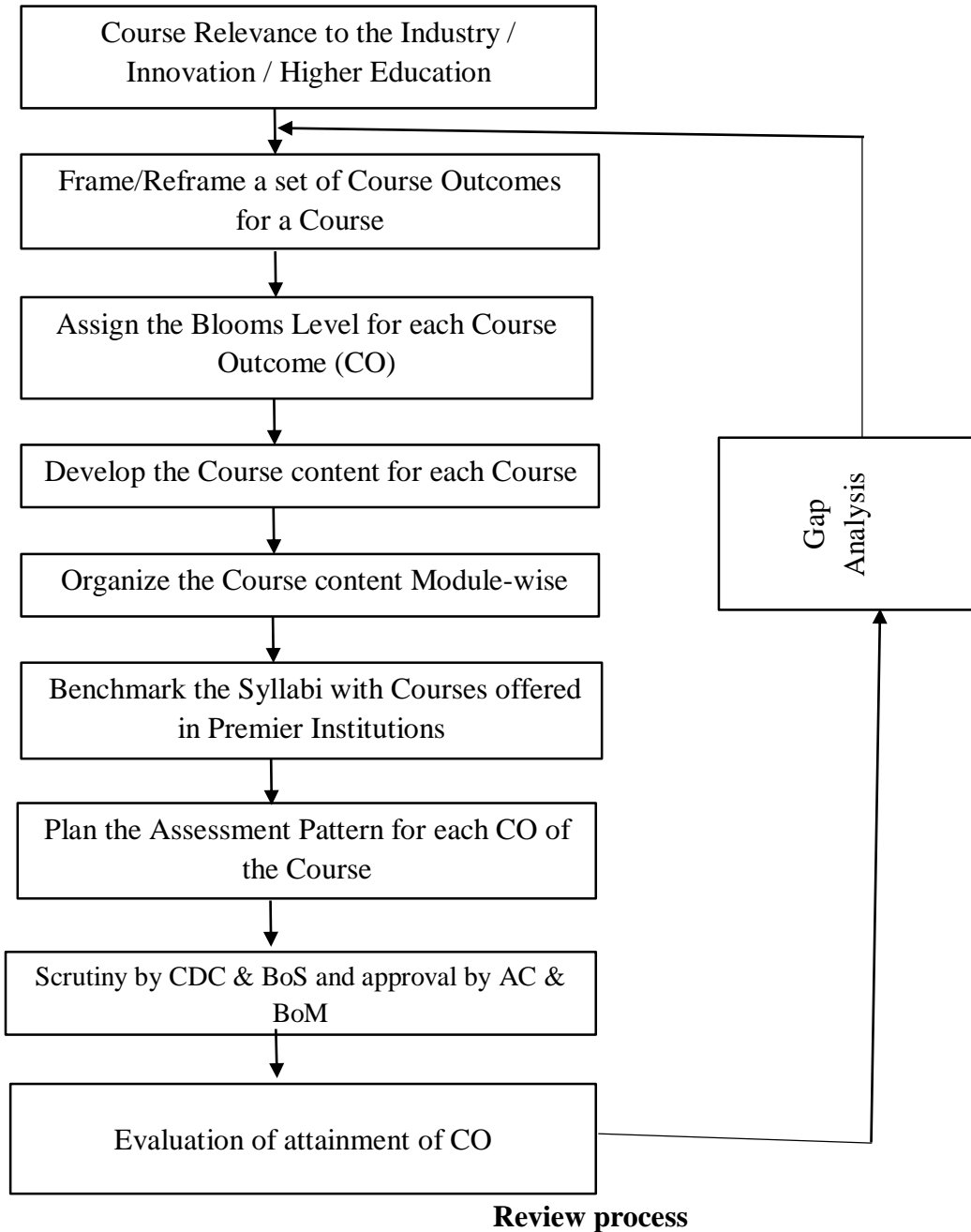# Curriculum Design Process

The curriculum is designed based on Program Educational Objectives (PEOs), Program Outcomes (POs) and also adopting the guidelines of All India Council for Technical Education (AICTE). The curriculum and syllabi are discussed in Curriculum Development Cell (CDC) meetings along with student representatives. The recommendations of CDC are presented in the BoS comprising experts from premier institutes, industries and alumni for scrutiny. The recommendations of BoS are placed in Academic Council (AC) / Board of Management (BoM) for approval. Approved curriculum and syllabi are implemented and documented as Academic Hand Books.

Continuous reviews are obtained from the stakeholders, industry, academia, external experts from other institutions and faculty. The feedback is analyzed and the required updates are incorporated if necessary. Continuous review process provides a detailed insight on the process of designing/ updating a Course.

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┌─────────────────────────────────────┐        ┌──────────────────────┐
│ Formulate the Program Educational    │ ◀──────│                      │
│ Objectives (PEOs) based on Vision    │        │                      │
│ and Mission                          │        │                      │
└─────────────────────────────────────┘        │                      │
              │                                 │                      │
              ▼                                 │                      │
┌─────────────────────────────────────┐        │                      │
│ Framing of the Program Outcomes      │ ◀──────│  Feedback from the   │
│ (POs) for the Program                │        │  stakeholders        │
└─────────────────────────────────────┘        │                      │
              │                                 │                      │
              ▼                                 │                      │
┌─────────────────────────────────────┐        │                      │
│ Course Identification                │ ◀──────│                      │
└─────────────────────────────────────┘        └──────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│ Design of Course content with Course │
│ Outcomes                             │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│ Review by the Curriculum Development │
│ Cell (CDC)                           │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│ Scrutiny and Recommendations by the  │
│ Board of Studies (BoS)               │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│ Review and Recommendations by the    │
│ Standing Committee                   │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│ Approval by Academic Council (AC)    │
│ and Board of Management (BoM)        │
└─────────────────────────────────────┘
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Curriculum Design Process

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┌─────────────────────────────────────┐
│   Course Relevance to the Industry / │
│    Innovation / Higher Education     │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│  Frame/Reframe a set of Course       │
│       Outcomes for a Course          │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐         ┌──────────────┐
│  Assign the Blooms Level for each    │         │     Gap      │
│       Course Outcome (CO)            │         │   Analysis   │
└─────────────────────────────────────┘         └──────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│  Develop the Course content for      │
│         each Course                  │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│  Organize the Course content         │
│          Module-wise                 │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│  Benchmark the Syllabi with Courses  │
│    offered in Premier Institutions   │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│  Plan the Assessment Pattern for     │
│       each CO of the Course          │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│  Scrutiny by CDC & BoS and approval  │
│         by AC & BoM                  │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│     Evaluation of attainment of CO   │
└─────────────────────────────────────┘
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Review process

Level of Program Curriculum

The department ensures adherence to the guidelines received from statutory regulatory bodies like UGC, AICTE on credit distribution for PG curriculum, while developing and/or restructuring it from time to time. The Courses offered in the curriculum are on par with the top national and international Institutions. A 360∘feedback approach is practiced and input from stakeholders such

as industry experts, employers, academia, parents, students, and alumni is obtained to identify and offer Courses on emerging technologies addressing the societal requirements. Involvement of industrial experts in BoS, feedback from alumni, formal and informal discussions with stakeholders ensure bridging any gap between the curriculum and requirement of industries, and recruiters. Courses are also offered in collaboration with the industries such as IBM, ORACLE, Infosys, SUSE, CISCO and EMURGO.

Overall Quality:
Courses on current technologies are identified from eminent National and international institutions and included in the curriculum as core and softcore Courses (Professional electives). More than 100 professional elective Courses have been identified on trending technologies. These Courses inspire the students to carry out research projects and publish their work in reputed conferences and refereed journals.