



MAR BASELIOS CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY

Kuttikanam, Peermade, Idukki, Kerala – 685531
principal@mbcpeermade.com

7.2.1 BEST PRACTICES

BEST PRACTICE 1

Title of the Practice: Evolving holistic development of engineers by inculcating innovation culture through experiment and experience.

Objectives of the Practice: The main objectives of this best practice in MBCCET is to

- Promote a pragmatic learning culture in the institution and thus provide an opportunity to pursue research in the area of interest.
- Inculcate innovative thinking.
- Develop the spirit of team work and enhance the knowledge through sharing.
- Equip students with recent technology and make them fit for industry by bridging the gap.
- Identify future scope in the areas of their interest.

The Context

MBCCET follow the academic system promoting Experimental based learning in the institution. In the beginning, the institution conducts an orientation programme emphasizing on the research & innovation possibilities, societal issues, role of engineer in solving social problems and the infrastructure developments of the nation by internal and external experts. This program helps to understand necessity of the research and innovation. During the department visit, these students get an opportunity to see the research and innovation projects already completed and also to interact with the senior students.

The Practice

MBCCET is well aware that no institution can grow without innovative, research and development activities. There are numerous societal issues to be addressed for the sustainable environment and for the survival of the mankind. A meticulous continued research is required for this. Keeping this in mind, MBCCET has cultivated a system of academic delivery in which due importance is given to the promotion of the innovation and research. Two centers, named CiTE and CRiSE are established in the campus for creating an eco-system for this. All students learn a



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course of Design Engineering during their first year of study which help them to improve creativity skills. In design project, during third year of the curriculum, the students have to design a product or a conceptual model with the engineering knowledge they gained during the previous semesters. In final semesters, the students ponder on the innovative/research project and come up with the working model/ novel ideas with the backup of experimental results to substantiate the findings. College encourages the students to publish their research outputs in peer reviewed journals. Also college conducts conferences so that this platform can be utilized for the students to present their research findings. College extends funding through CiTE for deserving project works. Institution also has got autonomy in conducting a national level project competition, 'Navriti' to bring out innovation and creativity in minds across the country.

Evidence of Success

- Students got prizes/awards for their project works/novel ideas in the technical events conducted outside the campus.
- Series of technical events are conducted every year and many students actively participate in the events with more enthusiasm.
- More novel ideas & concepts came in technical events.
- Increased number of papers published by our students.
- Helps in identifying areas of study within and outside the curriculum and stressing on the areas which needs specific improvements.
- Students with entrepreneurship skills are identified.
- More students opted higher studies in the areas of their research interest.

Problems Encountered and Resources Required

- Technology updation is one of the challenges and needs special care. Technical talks, trainings programmes, workshops are to be conducted without affecting the regular academic schedule.



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- Capacity building of the faculty to address the latest trends is another challenge and to cope up this, faculty are encouraged to attend different Faculty Development Programs and trainings. Institution wholeheartedly supports for such initiatives.

BEST PRACTICE 2

Title of the Practice:

Catering the needs of the slow learners, we develop a culture of inclusive learning, nurturing companionship of advanced learners under the guided association of faculty.

Objectives of the Practice: The main objectives of the practice are to:

- Bring up the slow learners.
- Enhance the leadership quality of the advanced learners.
- Improve the team spirit and helping mentalities in students.
- Give a chance to advanced learners, to concrete their understanding of the subject.
- Improve / enhance the teaching/delivery skills of the advanced learners.
- Inculcate a 'can do' attitude among the students.
- Give better focus on numerical subjects.

The Context

College has a blend of students from diversified categories. Based on the academic performance of the students, they are categorized in to various groups. Slow learners are identified by various evaluation methods. The institution seriously considers the academic betterment of these category students and keeping this in mind and to uplift them, learning through knowledge sharing with the support of advanced learners is implemented.

The Practice

MBC CET conduct learning sessions during evenings as Remedial Sessions (RS) and night time sessions as Group Study Sessions (GSS) in college as well as in hostel round the year. Faculty members along with students from advanced learners category join hands together to make this venture a success. Each advanced learner is assigned with a group of slow learners and during peer to peer learning sessions, these advanced



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learners assist the faculty to take care of the students under them. Emphasize is given to numerical subjects by solving previous year question papers, tutorial problems etc. The entire class/ session is monitored by the faculty. The services of the resident tutors are being utilized effectively for this session. Normally these sessions are scheduled from 4.30 PM to 5.45 PM & 8.00 PM to 10.00 PM, and might go beyond 10.00 PM as and when required. The main success of this programme lies in the fact that the campus is mainly residential.

Evidence of Success

- Students feedback shows that this way of learning is effective as many perform well in their studies.
- Confidence level of the advanced learners also increased very well not only on the better understanding of the subject but also their skills in the way of teaching/delivery.
- Peer-to-Peer learning system inculcated a harmonious culture wherein psychologically students feel no distinction among themselves.
- Students as a group show better team spirit with the mentality of helping each other.

Problems Encountered and Resources Required

For the day scholars, they don't get the full benefit of this learning as it is being happened after the regular class hours and in hostel in succession. Still institution provides the facility for them to stay in our hostel during the sessions.

BEST PRACTICE-3:

Title of the Practice: Mar Baselios Christian college Semester-wise Academic planning. (MBCSAP)

Objectives of the Practice:

The following list indicates the Goals and objectives of MBCSAP:

- To set the goal for the succeeding academic semester and how to perform it.
- To plan the semester-wise academic activities, adhering to the 'Mission' and 'Vision' of the college.
- To identify future scopes and upgradation needed for the college and all the departments.
- To communicate the proposed activities of every department with the rest of the faculty members.



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- To help the coordination of various activities of the college in an already planned time frame.
- To provide a platform for expression of opinions, feedback, new ideas and valuable suggestions for further growth and development of the institution.
- To share ideas to create a sense of responsibility in all the faculty members.
- To provide the ideal initiation to all the newly appointed faculty members.

The Context

MBC CET journey towards excellence begins with the process of (MBCSAP) which is conducted at the beginning /end of each semester. This gives the MBC family an opportunity for a self- analysis and evaluate the activities of the current semester, get the flaws corrected and move ahead with positive judgement and purpose. Since the MBC family believe that success comes with proper, realistic planning and timely implementation of the same, the (MBCSAP) process has gained admiration and acceptance over the years. In the context of MBC's quest for the best possible START, BALANCED FLOW and SUPREME VENEER at the end of the academic year, MBCSAP process has proved to be of great help.

The Practice

MBCSAP is a one day programme organized for the entire teaching staff of MBC with the purpose of framing the academic activities for the succeeding academic semester. Every Department of the college presents the activities done in the current academic year and prospective plans. Every participant has the freedom to voice his/her opinion, critically assess the activities and provide suggestions for improvement. It is also a once in a semester opportunity for the faculty members to come together, share their experiences, discuss matters that affect curricular and co-curricular activities of the institution. MBCSAP also gives an opportunity to the new faculty members to announce their arrival in the MBC family, familiarize with the rest of the team, involve in the activities and give their commitment to work as a good team member.

Evidence of Success

- Clarity in academic schedule and ease of monitoring.
- Ensures that all vital aspects of higher education are attended to improve the quality of education.
- Helps in identifying areas of importance and setting semester-wise goals for specific improvement.



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Problems Encountered and Resources Required

MBCSAP is planned well in advance and during the days of MBCSAP university examinations are sometimes unexpectedly rescheduled which affects the participation of teachers.