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**VTU TEQIP 1.3 Sponsored 5-Day Workshop on  
'Outcome-Based Education and NBA Accreditation'**

## **Report on VTU TEQIP 1.3 sponsored 5-Day workshop on Outcome-Based Education and NBA Accreditation, from 20<sup>th</sup> to 24<sup>th</sup> January, 2020**

The MVJ college of Engineering (MVJCE) organized a 5-Day Workshop on **'Outcome-Based Education and NBA Accreditation'**, from January 20<sup>th</sup> to 24<sup>th</sup>, 2020, sponsored by VTU TEQIP 1.3, at Smt. Rajalakshmi Seminar Hall. The main objective of this Workshop was to educate the junior as well as senior faculty members on how to re-orient their teaching-learning processes to implement OBE for NBA accreditation. Speakers for the program were from reputed organizations like NITK, RVCE, KLE University, BMSCE, SIT, and CIT, Bangalore. 120 faculty members, that included internal participants, participated in the Workshop.

### **A brief Overview of the Workshop**

#### **Day1: 20<sup>th</sup> January, 2020**

The Workshop commenced with a Welcome speech by Prof. M. Brindha, Vice Principal, MVJCE, followed by a melodious Invocation song. To mark the triumph over darkness, Chief Guest Dr. K N Subramanya, Principal, RVCE, Dr. P Mahabaleswarappa, Principal, MVJCE, Prof. M Brindha, Vice Principal, MVJCE and Prof. Vaman B Gudi, COE, MVJCE, lighted the lamp for an auspicious beginning.

Dr. P Mahabaleswarappa, Principal, MVJ College of Engineering, extended a warm welcome to the gathering, and emphasized on the importance of curriculum as a tool for gathering knowledge. The Inaugural address was followed by the introduction of the Chief Guest Dr. K N Subramanya, Principal, RVCE, Bangalore.



MVJCE organized 5-Day Workshop on "Outcome based Education and NBA Accreditation" sponsored by VTU TEQIP: Prof.M.Brindha,Vice Principal,MVJCE welcoming the gathering during inauguration on 20<sup>th</sup> January,2020 at Raja Lakshmi seminar hall,MVJCE.



MVJCE organized 5-Day Workshop on "Outcome based Education and NBA Accreditation" sponsored by VTU TEQIP: Dr.P.Mahabaleswarappa, Principal, MVJCE addressing the gathering on 20th January,2020 at Raja Lakshmi seminar hall,MVJCE.

For Day 1 of the Workshop, two resource persons were invited to deliver their talk on the theme of Outcome-Based Education. Dr. K N Subramanya, Principal, RVCE, Bangalore, was the Chief Guest who delivered the Keynote Address on Outcome-Based Education, highlighting the challenges we meet in OBE. He emphasized on the idea 'Learn, Re-learn and Unlearn' so that the faculty will be able to bring about new teaching methods to get a quality outcome. He also shared his knowledge on the comparison between the Assessment processes involved in the Washington Accord, Sydney Accord and Dublin Accords, with the Indian Accreditation system.



MVJCE organized 5-Day Workshop on “Outcome based Education and NBA Accreditation” sponsored by VTU TEQIP: Dr.K.N.Subramanya,Principal, RVCE, Bangalore delivering keynote address on Outcome Based Education on 20<sup>th</sup> January,2020 at Raja Lakshmi seminar hall,MVJCE.

The Afternoon Session was initiated with the introduction of the Resource person, Dr. Gopal Krishna Joshi, Professor, KLE University, Hubli. He explained the importance of Revised Bloom’s Taxonomy, and how Revised Bloom’s Taxonomy assists the student in determining the type and level of thinking which they require to fully answer any question which may be asked in various learning situations. He also spoke about the modern tools and methods involved in Teaching-Learning process. Dr. Gopal Krishna Joshi also used various real time examples wherever necessary, involving the participants of the Workshop, and this made the Session lively and interactive.



MVJCE organized 5-Day Workshop on “Outcome based Education and NBA Accreditation” sponsored by VTU TEQIP: Dr. GopalKrishna Joshi, Professor, KLE University, Hubli. on Revised Bloom’s Taxonomy and teaching learning process on 20<sup>th</sup> January,2020 at Raja Lakshmi seminar hall ,MVJCE.

The Session concluded with vote of thanks by Dr. P Mahabaleswarappa, Principal, MVJ College of Engineering.

### **Day 2: 21<sup>st</sup> January, 2020**

The Day 2 session started with the Introduction of the Resource Person, Dr. Prasad Krishna, Professor, Department of Mechanical Engineering, NITK. Dr. Prasad Krishna highlighted the implementation of OBE in the Teaching-Learning Process. He explained how OBE will help teachers to know what they need to teach during the course. He also explained how OBE allows faculty to recognize diversity among students by the use of various teaching and assessment techniques during their class. He also enlightened the audience about pre qualifiers of NBA.



MVJCE organized 5-Day Workshop on "Outcome based Education and NBA Accreditation" sponsored by VTU TEQIP: Dr. Prasad Krishna, Professor, Department of Mechanical Engineering, and NITK.explaining about OBE Implementation in teaching learning process on 21<sup>st</sup> January,2020 at Raja Lakshmi seminar hall ,MVJCE.

During the post-lunch Session Dr. D H Rao, Director, CIT, Bangalore, explained about Criterion 1 - Vision, Mission and Program Educational Objectives, using hierarchy flowcharts. He also discussed about holistic education and how it provides a transformative approach in Learning. Professor D H Rao explained about Teacher-centric and Student-centric education and Input-Output based education.



MVJCE organized 5-Day Workshop on "Outcome based Education and NBA Accreditation" sponsored by VTU TEQIP: Dr. D. H. Rao, Director, CIT, Bangalore explaining about Criterion 1-Vision, Mission and Program Educational Objectives process on 21<sup>st</sup> January,2020 at Raja Lakshmi seminar hall ,MVJCE.

The Session concluded with an interactive discussion of the participants with the Chief Guest.

### Day 3: 22<sup>nd</sup> January, 2020

Day 3 of the 'Outcome-Based Education and NBA Accreditation' Workshop sponsored by VTU TEQIP started with the Introduction of the Resource Person, Dr. N Alagumurthy, Professor, Department of Mechanical Engineering, Pondicherry Engineering College, by Prof. M Brindha, Vice Principal, MVJCE.

Dr. Alagumurthy delivered a detailed presentation and lectured on the following topics:

Criterion 2: Program Curriculum and Teaching–Learning Processes

Criterion 3: Course Outcomes and Program Outcomes

Criterion 4: Student’s Performance



MVJCE organized 5-Day Workshop on “Outcome based Education and NBA Accreditation” sponsored by VTU TEQIP. Dr. Alagumurthy, Professor, Department of Mechanical Engineering, Pondicherry Engineering College explaining about Criterion 2,3 and 4 on 22<sup>nd</sup> January, 2020 at Raja Lakshmi seminar hall, MVJCE.

In the morning Session, Dr. Alagumurthy discussed in detail about the Pre-Qualifier for institutions, for the processing of Accreditation applications of Higher Education Institutions, under the Tier-II format. Later, he explained about Criterion 2 in the Self-Assessment Report (SAR) of NBA.

In the post-lunch Session, Prof. Alagumurthy discussed Criterion 3 and 4 in detail. For understanding CO-PO mapping and attainment better, he gave an example using chalk and board. At the end of the day, the participants had the opportunity to interact with him and clarify their doubts.

The Session concluded with vote of thanks by Prof. Vaman B Gudi, COE, MVJ College of Engineering.

#### **Day 4: 23<sup>rd</sup> January, 2020**

The Speaker invited for the forenoon Session on Day 4 ‘Outcome-Based Education and NBA Accreditation’ workshop sponsored by VTU TEQIP was Dr. Guruprasad H, Dean - Academics, BMSCE, Bangalore. Dr. P Mahabaleswarappa, Principal, MVJCE, introduced the Speaker to the gathering and welcomed him with a bouquet. The topic of discussion was ‘Criterion 5: Faculty Information and Contribution of NBA-SAR’. Dr. Guruprasad explained about the innovations by faculty in teaching and learning, and appropriate methods to improve the Teaching-Learning process, with respect to curriculum. He explained the various methods which have been adopted in his institution, and advised everyone to attempt these. He also touched upon the COs and the easier way of CO-PO mapping with a real time example. Prof. Guruprasad enthused the participants by his humorous way of lecturing.



MVJCE organized 5-Day Workshop on “Outcome based Education and NBA Accreditation” sponsored by VTU TEQIP: Dr. Guruprasad H, Dean- Academics, BMSCE, Bangalore explaining about Faculty Information and Contribution of NBA-SAR on 23<sup>rd</sup> January, 2020 at Raja Lakshmi seminar hall, MVJCE.

In the post-lunch Session on Day 4, the Speaker was Dr. Suresh Ramaswamy Reddy, Professor, Department of Civil Engineering, BMSCE, Bangalore. The topics taken up by the Speaker were ‘Criterion 6: Facilities and Technical Support’ and ‘Criterion 7: Continuous Improvement’. He explained how to attain the target level based on the results of evaluation of each of the POs and PSOs. He spoke about the improvement in placement, higher studies and entrepreneurship, and how to develop and train the students to industry requirements. He showed visual examples of students’ projects executed in his institution, and advised the faculty here to practice the same. The Session concluded with interaction of the participants with the Speaker.



MVJCE organized 5-Day Workshop on “Outcome based Education and NBA Accreditation” sponsored by VTU TEQIP: Dr Suresh Ramaswamy Reddy, Professor, Department of Civil Engineering, BMSCE explaining about Criterion 6: Facilities and Technical Support and Criterion 7: Continuous Improvement on 23<sup>rd</sup> January, 2020 at Raja Lakshmi seminar hall, MVJCE.

## Day 5: 24<sup>th</sup> January, 2020

The final day of the ‘Outcome-Based Education and NBA Accreditation’ Workshop sponsored by VTU TEQIP, started with the introduction of the Guest of Honor, Dr. Prabhu Shankar G V, Dean - Academics, SIT, Tumkur. Dr. P Mahabaleswarappa, Principal, MVJCE, introduced the speaker to the gathering. Dr. Prabhu Shankar G V initiated his morning Session with ‘Criterion 8 - First Year Academics’. He discussed

about the current admission scenario in the Engineering courses, and also about how quality education impacts the admission rate of a higher education institution. He shared the information that before 2022, all the programs at institution level should be accredited by NBA. While giving an explanation on 'Criterion 9 - Student Support System', he insisted that faculty members give quality assignments to the students.



MVJCE organized 5-Day Workshop on “**Outcome based Education and NBA Accreditation**” sponsored by VTU TEQIP:Dr Prabhu Shankar G V Dean-Academics,SIT, Tumkur explaining about with Criterion 8-First Year Academics on 24<sup>th</sup> January,2020.

In the afternoon Session, Dr. Prabhu Shankar G V explained about 'Criterion 10 - Governance, Institutional Support and Financial Resources' and 'NBA Guidelines Evaluation'. At the end of the Session, Dr. Prabhu Shankar G V asked the faculty members to write COs for their course and map those COs with POs. He also checked and corrected COs written by the participants, in order to give in depth idea on the writing and mapping of COs. He gave some guidelines for giving quality assignments and complex Engineering problems to students. He also clarified about Plan Do Check Act (PDCA) cycle.



MVJCE organized 5-Day Workshop on “**Outcome based Education and NBA Accreditation**” sponsored by VTU TEQIP:External participants along with chief guest Dr Prabhu Shankar G V Dean-Academics,SIT, Tumkur on 24<sup>th</sup>January,2020 at Raja Lakshmi seminar hall ,MVJCE.

The Workshop concluded with a Valedictory function. On the whole, the Workshop received a lot of positive feedback from the participants and paved the way for participants to implement Outcome-Based education in their Institutions.

**Outcome of the event:**

The five-day Workshop on 'Outcome-Based Education and NBA Accreditation' helped the participants to:

- Understand the importance of Outcome-Based Education and Accreditation
- Understand essential and desirable parameters in NBA pre qualifier
- Formulate the Vision and Mission of the College and their Department
- Understand Revised Bloom Taxonomy and implementation in Teaching-Learning process
- Understand Course outcomes, Program Outcomes, Program Educational Objectives, Program Specific Outcomes and Graduate Attributes
- Establish the correlation between COs and POs and PSOs
- Calculate the attainment of COs, POs, PSOs, PEOs
- Understand the Calculation of success rate of students
- Perceive curricular gaps and attainment gaps, and conceive plans to bridge the gap, for continuous improvement
- Prepare Self-Assessment Report and Documents for Accreditation