Criteria 1

Criteria	Criteria 1 – Curricular Aspects
Key Indicator	*1.2.1 Percentage of programs in which Choice Based Credit System (CBCS)/ elective course system has been implemented*
Finding In DVV	1. Provide Affiliating University circular/letter stating implementation of CBCS for each programme .
Response/ Clarification:	1. Provide Affiliating University circular/letter stating implementation of CBCS for each programme. **Appendix-I**
Description	**Response Relevant DVV attached below in Appendix-I**

Dr. D. N. Jaiswal

Principal

Principal
G M Vedak Institute of Technology
Tala Dist.Raigad

Ref: DVV Clarification for Metric level: 1.2.1

Sub: Response to DVV Clarification for Metric level: 1.2.1.

1.2.1 *Percentage of programs in which Choice Based Credit System (CBCS)/ elective course system has been implemented (10)*

1. Provide Affiliating University circular/letter stating implementation of CBCS for each programme. **Appendix-I**

Dr. D. N. Jaiswal

Principal

Principal
G M Vedak Institute of Technology
Tala Dist.Raigad

CIRCULAR:-

A reference is invited to the syllabi relating to the Bachelor of Engineering degree course **vide** this office Circular No.UG/228 of 2008, dated 10th June, 2008 and No.UG/262 of 2009, dated 7th July, 2009 and No.UG/240 of 2010, dated 12th August, 2010 and the Principals of affiliated Colleges in Engineering are hereby informed that the recommendation made by Board of Studies in Mechanical Engineering at its meeting held on 19th April, 2017 has been accepted by the Academic Council at its meeting held on 11th May, 2017 **vide** item No. 4.247 and that in accordance therewith, the revised syllabus as per (CBCS) for Bachelor of Engineering (Mechanical Engineering) (Sem. III & VIII) be revised for S.E. (Sem. III & IV) from Academic Year 2017-18, Third Year(Sem. V & VI) from Academic Year 2018-19, and Bachelor of Engineering (Sem. VII & VIII) from Academic Year 2019-20, which is available on the University's website (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2017-18, accordingly.

MUMBAI – 400 032
8th August , 2017

(Dr.M.A.Khan)
REGISTRAR

To,
    The Principals of affiliated Colleges in Engineering.

A.C/ 4.247/11/05/2017.

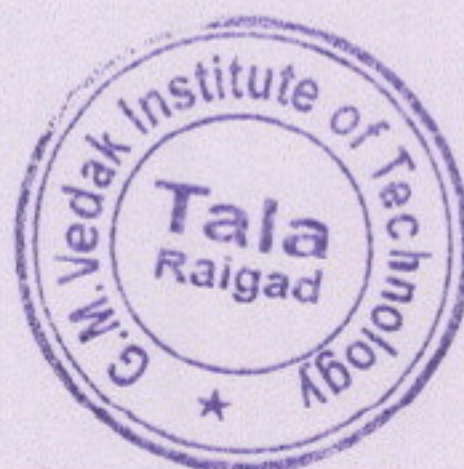*****************

No. UG/167-A of 2017   MUMBAI- 400 032   8th August , 2017

Copy forwarded with compliments for information to:-

1. The Co-Ordinator, Faculty of Technology,
2. The Chairmen, Board of the Studies in Mechanical Engineering.
3. The Offg. Director, Board of Examinations and Evaluation,
4. The Director, Board of Students Development,
5. The Co-Ordinator, University Computerization Centre.
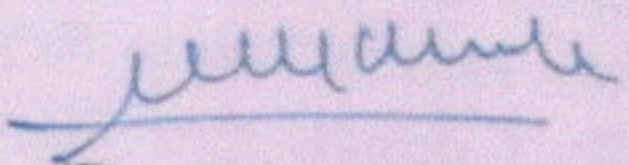
(Dr.M.A.Khan)
REGISTRAR
... PTO

Yug

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular No. UG/241 of 2010, dated 12th August, 2010 relating to syllabus of the Bachelor of Engineering (B.E.) degree course.

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Computer Engineering at its meeting held on 9th April, 2018 have been accepted by the Academic Council at its meeting held on 5th May, 2018 **vide** item No. 4.51 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.E. & B.E. in Computer Engineering (Sem - V to VIII) has been brought into force with effect from the academic year 2018-19 and 2019-2020, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032
22nd June, 2018

To

(Dr. Dinesh Kamble)
I/c REGISTRAR

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C/4.51/05/05/2018

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No. UG/39 -A of 2018   MUMBAI-400 032   22nd June, 2018

Copy forwarded with Compliments for information to:-
1) The I/c Dean, Faculty of Science & Technology,
2) The Chairman, Ad-hoc Board of Studies in Computer Engineering,
3) The Director, Board of Examinations and Evaluation,
4) The Director, Board of Students Development,
5) The Co-Ordinator, University Computerization Centre,

(Dr. Dinesh Kamble)
I/c REGISTRAR

University of Mumbai

No. UG/44 of 2019-20

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular No. UG/249 of 2010 dated 12th August, 2010 relating to the revised syllabus of Fourth Year (Sem.VII & VIII) of the B. E. Degree Course in branch of Civil Engineering.

They are hereby informed that the recommendations made by the Board of Studies in Civil Engineering at its meeting held on 11th April, 2019 have been accepted by the Academic Council at its meeting held on 15th April, 2019 **vide** item No. 4.51 and that in accordance therewith, the revised syllabus as per the (CBCGS) for the B.E. Civil Engineering (Sem. VII & VIII) has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032
    9th July, 2019

                                           (Dr. Ajay Deshmukh)
                                              REGISTRAR
To

The Principals of the affiliated Colleges, and Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)
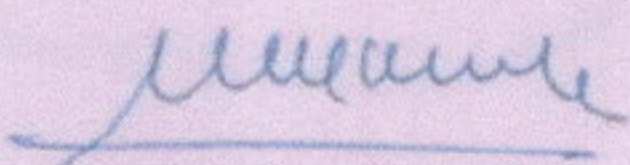
A.C/4.51/15/04/2019

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No. UG/44 -A of 2018-19   MUMBAI-400 032   9th July, 2019

Copy forwarded with Compliments for information to:-

1) The I/c Dean, Faculty of Science & Technology,
2) The Chairman, Board of Studies in Civil Engineering,
3) The Director, Board of Examinations and Evaluation,
4) The Director, Board of Students Development,
5) The Co-ordinator, University Computerization Centre,

                                         (Dr. Ajay Deshmukh)
                                          REGISTRAR

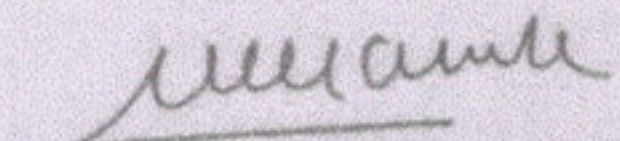G.M.Vedak Institute of Technology
Tala Raigad

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular No. UG/239 of 2010, dated 12th August, 2010 relating to syllabus of the Bachelor of Engineering (B.E.) degree course.

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Electronics & Telecommunication Engineering at its meeting held on 9th April, 2018 have been accepted by the Academic Council at its meeting held on 5th May, 2018 **vide** item No. 4.53 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.E. & B.E. in Electronics & Telecommunication Engineering (Sem - V to VIII) has been brought into force with effect from the academic year 2018-19 and 2019-2020, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032
25th June, 2018

(Dr. Dinesh Kamble)
I/c REGISTRAR

To

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C/4.53/05/05/2018

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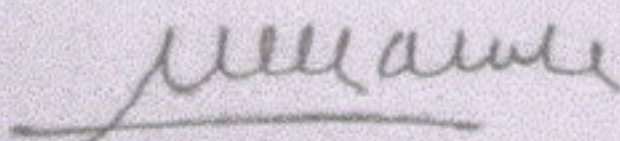
No. UG/42 -A of 2018   MUMBAI-400 032   25th June, 2018

Copy forwarded with Compliments for information to:-
  1) The I/c Dean, Faculty of Science & Technology,
  2) The Chairman, Ad-hoc Board of Studies in Electronics & Telecommunication Engineering,
  3) The Director, Board of Examinations and Evaluation,
  4) The Director, Board of Students Development,
  5) The Co-Ordinator, University Computerization Centre,

(Dr. Dinesh Kamble)
I/c REGISTRAR

CIRCULAR:-

A reference is invited to the syllabi relating to the Bachelor of Engineering (All Branches) degree course **vide** this office Circular No.UG/94 of 2012-13, dated 4th December, 2012 and the Principals of affiliated Colleges in Engineering are hereby informed that the recommendation made by Ad-hoc Board of Studies in Electrical Engineering at its meeting held on 8th July, 2016 has been accepted by the Academic Council at its meeting held on 14th July, 2016 **vide** item No. 4.64 and that in accordance therewith, the revised syllabus as per Choice Based Credit System for Bachelor of Engineering (First Year Engineering (Sem. I to II), which is available on the University's web site (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI – 400 032

9th November, 2016

(Dr.M.A.Khan)
REGISTRAR

To,

The Principals of affiliated Colleges in Engineering.

A.C/ 4.64/14/07/2016.

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No. UG/131-A of 2016   MUMBAI-400 032   9th November, 2016

Copy forwarded with compliments for information to:-

1. The Dean, Faculty of Technology,
2. The Chairmen, Ad-hoc Board of the Studies in Bachelor of Engineering.
3. The Director, Board of College and University Development.
4. The Controller of Examinations,
5. The Co-Ordinator, University Computerization Centre.

(Dr.M.A.Khan)
REGISTRAR

... PTO

UNIVERSITYOFMUMBAI

Revised syllabus (Rev- 2016) from Academic Year 2016 -17
Under

FACULTY OF TECHNOLOGY

Information Technology

Second Year with Effect from **AY 2017-18**

Third Year with Effect from **AY 2018-19**

Final Year with Effect from **AY 2019-20**

As per **Choice Based Credit and Grading System**

with effect from the AY 2016–17

Co-ordinator, Faculty of Technology's Preamble:

To meet the challenge of ensuring excellence in engineering education, the issue of quality needs to be addressed, debated and taken forward in a systematic manner. Accreditation is the principal means of quality assurance in higher education. The major emphasis of accreditation process is to measure the outcomes of the program that is being accredited. In line with this Faculty of Technology of University of Mumbai has taken a lead in incorporating philosophy of outcome based education in the process of curriculum development.

Faculty of Technology, University of Mumbai, in one of its meeting unanimously resolved that, each Board of Studies shall prepare some Program Educational Objectives (PEO's) and give freedom to affiliated Institutes to add few (PEO's). It is also resolved that course objectives and course outcomes are to be clearly defined for each course, so that all faculty members in affiliated institutes understand the depth and approach of course to be taught, which will enhance learner's learning process. It was also resolved that, maximum senior faculty from colleges and experts from industry to be involved while revising the curriculum. I am happy to state that, each Board of studies has adhered to the resolutions passed by Faculty of Technology, and developed curriculum accordingly. In addition to outcome based education, semester based credit and grading system is also introduced to ensure quality of engineering education.

Choice based Credit and Grading system enables a much-required shift in focus from teacher-centric to learner-centric education since the workload estimated is based on the investment of time in learning and not in teaching. It also focuses on continuous evaluation which will enhance the quality of education. University of Mumbai has taken a lead in implementing the system through its affiliated Institutes and Faculty of Technology has devised a transparent credit assignment policy and adopted ten points scale to grade learner's performance. Credit assignment for courses is based on 15 weeks teaching learning process, however content of courses is to be taught in 12-13 weeks and remaining 2-3 weeks to be utilized for revision, guest lectures, coverage of content beyond syllabus etc.

Choice based Credit and grading system is implemented from the academic year 2016-17 through optional courses at department and institute level. This will be effective for SE, TE and BE from academic year 2017-18, 2018-19 and 2019-20 respectively.

Dr. S. K. Ukarande

Co-ordinator,

Faculty of Technology,

Member - Academic Council

University of Mumbai, Mumbai

Preamble

It is an honor and a privilege to present the revised syllabus of Bachelor of Engineering in Information Technology (effective from year 2016-17) with inclusion of cutting edge technology.

Information Technology is comparatively a young branch among other engineering disciplines in the University of Mumbai. It is evident from the placement statistics of various colleges affiliated to the University of Mumbai that IT branch has taken the lead in the placement. The branch also provides multi-faceted scope like better placement and promotion of entrepreneurship culture among students, and increased Industry Institute Interactions.

Industries views are that, only 16 % graduates are directly employable. One of the reasons is a syllabus which is not in line with the latest technologies. Our team of faculties has tried to include all the latest technologies in the syllabus. Also the first time we are giving the choice of elective from fifth semester such that students will be master in one of the IT domain.

The syllabus is peer reviewed by experts from reputed industries and as per their suggestions it covers future trends in IT technology and research opportunities available due to these trends.

I would like to thank senior faculties of IT department of all colleges affiliated to Mumbai University for significant contribution in framing the syllabus. Also behalf of all faculties I thank all the industry experts for their valuable feedback and suggestions.

I sincerely hope that the revised syllabus will help all graduate engineers to face the future challenges in the field of information and technology

Program Outcome for graduate Program in Information Technology

1. Apply Core Information Technology knowledge to develop stable and secure IT system.
2. Design, IT infrastructures for an enterprise using concepts of best practices in information Technology management and security to enterprise processes.
3. Manage IT projects using written and oral communication skills in collaborative environments by Participating on teams that address solutions for IT management challenges.
4. Identify and discuss professional, individual, organizational, societal, and regulatory implications of Information systems and technology.
5. Assess Security of the IT Systems and able to respond to any breach in IT system
6. Ability to work in multidisciplinary projects and make it IT enabled.
7. Ability to propose the system to reduce carbon footprint.
8. Ability to adapt the lifelong learning process to be in sync with trends in Information Technology

Dr. Deven Shah

Chairman (Ad-hoc Board Information Technology)
University of Mumbai)