The 28th Academic Council meeting held (blended mode) on December 26, 2022 at 04.00 pm

The 28th Academic Council Meeting was held on December 26, 2022 at 04.00 pm through blended mode. The following members were present:

The Agenda for the meeting was as follows:

ITEM No. 1: Approval of minutes of 27th AC meeting

ITEM No. 2: Approval of AQAR AY 2021-22

ITEM No. 3: Approval of skill oriented courses under open Electives and permission for conduction of courses in regional languages from each discipline. Addition of Advanced Wed Development course as a Minor Degree

ITEM No. 4: Approval of syllabus recommended by different BoS and constitution of BoS for various UG and PG programs

ITEM No. 5: Approval of decision recommended by different Research Committees

ITEM No. 6: Approval of Academic Calendar for Even Semesters for AY 2022-23

ITEM No. 7: Review of Academic Audit carried out for AY 2021-22 of University Departments and Affiliated Colleges

ITEM No. 8: Any other point with permission of the chair

Registrar welcomed all the members of the Academic Council and requested Hon. Vice-Chancellor to start the meeting.

ITEM No.1: Approval of minutes of 27th meeting of AC

Minutes were circulated to all the members for their suggestions, if any. Few suggestions and modifications were received from some of the members. After incorporating suggestions and modifications, minutes were again circulated to all the members. After discussions and deliberations AC approved the minutes.

Resolutions: After due discussions and deliberations, all the members of Academic Council approved the minutes of the 27th Academic Council meeting.

Item No. 2: Approval of AQAR AY 2021-22

Prof. M. S. Tandale presented the AQAR for AY 2021-22 in the Academic Council. After discussion and deliberations Academic Council approved the AQAR AY 2021-22. The AC asked the IQAC committee to submit the Self Study Report (SSR) to NAAC office within 45 days from acceptance of IIQA.

Resolution: The Academic Council approved the AQAR for AY 2021-22.

ITEM No. 3: Approval of skill oriented courses under Open & Program Electives and permission for conduction of courses in regional languages from each discipline. Addition of Advanced Web Development course as a Minor Degree

The Hon. Vice-Chancellor informed the Council that in order to implement guidelines of NEP 2020 it was essential to incorporate the skilled based course in all UG and PG programs.

It is decided to incorporate skilled oriented courses from proper levels of NSQF or equivalent be considered under Open and Program electives up to 20-40% in the curriculum of each of the disciplines.

Dean (Academics) informed the council about MoU signed by AICTE with Pupilfirst Private Limited for addition of Advanced Web Development course as a Minor Degree. After discussion and deliberations on the MoU and its content, AC decided to go for Minor Degree in Advanced Web Development.

It is also decided to include the courses from 'list of courses covered in Advanced Web Development course' as courses in the various UG programs.

ITEM No.4: Approval of syllabus recommended by different BoS and constitution of BoS for various UG and PG programs

Item No. 4.1: The BoS (Computer Engineering) had conducted two meetings on 7th November and 7th December 2022 respectively.

1. Recommended the syllabus of B.VoC program in AIDS and VRAR for approval in the Academic Council.

2. Recommended the syllabus of M.Tech program in Cyber Security for approval in the Academic Council.

3. Suggestions were received from many affiliated institutions regarding the content of the subject Human Computer Interaction (HCI) of third year. Hence, BoS reduced, revised and finalized the syllabus with all concerns.

4. Transfer of NPTEL credits to Machine Learning

Resolution 4.1: Academic council after discussion and deliberations approved the recommendations of BoS in Computer Engineering.

Item No. 4.2: MTech (Environmental Engineering) course has been restarted under the Chemical Engineering department from this academic year(2022-23). For this, it is proposed in the BoS meeting held on 25th December 2022 that improvised syllabus from previous, keeping in mind the latest rules and regulations and this syllabus will be effective from AY 2022-23. It is noted that the department has already approved corrections in the syllabus in the BoS meeting held last year.

Resolution 4.2: Academic council after discussion and deliberations approved the recommendations of BoS in Chemical Engineering.

Item No. 4.3: Engineering Chemistry course objective and outcomes for FY B. Tech (all branches) by BoS in Chemistry (Annexure 4.3)

Resolution 4.3: BoS in Department of Chemistry modified the course outcomes for FY B. Tech (all branches. Academic council approved the same.

Item No. 4.4: Course Outcomes by BoS in Physics (Annexure 4.4)

Resolution 4.4: BoS in Department of Physics had modified the course. Academic council approved the same.

ITEM No. 5: Approval of decision recommended by different Research Committees

Item No. 5.1: Meeting of Research Committee (English) took place on 13th October 2022. Pre-Ph.D synopsis was presented by Ms. Manisha Sadafule.

Resolution 5.1: The members had suggested few corrections to be incorporated by Ms.Manisha Sadafule before the submission.

Item No. 5.2: Department of Electronics and Telecommunication Engineering and its Research Progress Committee (DRC) recommended for approval of the following: Two (02) Research Scholars 1) Bakale Ravindra Subhash(RS20170301) and 2) Bhide Girish Govind(RS20140301) presented Pre-synopsis seminar. One (01) Research Scholars presented their annual progress seminar before the RPC.

Resolution 5.2: They all have been recommended for thesis write up and submission. DRC approved the same.

Item No. 5.3

Item No. 5.3.a: Meeting of DRC of Department of Chemistry held on 28th June 2022. The committee recommended for presentation of pre-Ph.D seminar of Pravinkumar B. Nagore (RS20170901).

Resolution 5.3.a: After discussion and deliberations Academic Council approved the recommendation of DRC for presentation of pre-Ph.D seminar of Pravinkumar B. Nagore (RS20170901).

Item No. 5.3.b: Meeting of DRC of Department of Chemistry held on 26th July 2022 for allocation of Ph.D guides to Mrs. Vaishnavi Kuthe.

Resolution 5.3.b: After discussion and deliberations Academic Council approved allocation of Ph.D guides to Mrs. Vaishnavi Kuthe.

Item No. 5.4: The application of research scholar Prashant A. Giri (RS20150401) of Chemical Engineering for extension of one (1) year is forwarded by concerned RPC/ DRC and put for approval of Academic Council by recommendation of Dean (R&D).

Resolution 5.4: After discussion and deliberations Academic Council approved one (1) year extension to research scholar Prashant A. Giri (RS20150401).

ITEM No. 6: Approval of Academic Calendar for even semesters for AY 2022-23
Following academic calendars were placed before the Academic Council:
   a) Academic Calendar – UG Sem. VI & VIII (AY 2022 – 23) as in Annexure 6.a
   b) Academic Calendar – UG Sem. IV (AY 2022 – 23) as in Annexure 6.b
   c) Academic Calendar Semester-II (AY 2022-2023) as in Annexure 6.c

Resolution: After discussion and deliberations Academic Council approved all the academic calendars as given in annexures 6.a, 6.b and 6.c.

ITEM No. 7: Review of Academic Audit carried out for AY 2021-22 of University Departments and affiliated colleges
Prof. Nalbalwar informed the council that the University had carried out Academic Audit of 134 colleges and 12 University departments by appointing distinguish academician and experts from the respective disciplines. He also informed the council that institute having B and lower grades had been asked to submit the action taken report.

Resolution: After discussion and deliberations Academic Council approved the same and asked for regular monitoring by the administration of the institutes to overcome the deficiencies.

ITEM No. 8: Any other point with permission of the chair

Item No. 8.1: Ph.D admission from full-time to part-time

8.1.a A Ph.D research scholars Mr. Pankaj M. Dhongade (RS20180103) of department of Mechanical Engineering had applied to change the status of his Ph.D admission from full-time to part-time.

8.1.b A Ph.D research scholars Mr. Sanil Gandhi of department of Computer Engineering had applied to change the status of his Ph.D admission from full-time to part-time.

Resolution 8.1: After discussion and deliberations Academic Council approved that status of Ph.D admission would be changed from full-time to part-time for a) Mr. Pankaj M. Dhongade (RS20180103) and b) Mr. Sanil Gandhi.

Item No. 8.2: Proposal for starting M. Sc. Tech. Program in a) Advanced Physics & Material Science and b) Industrial & Analytical Chemistry

Resolution 8.2: After discussion and deliberations Academic Council approved to start M. Sc. Tech. Program in a) Advanced Physics & Material Science and b) Industrial & Analytical Chemistry

Item No. 8.3: GoM GR regarding 'New National Education Policy 2020 Directives on structure and curriculum of four years and Dual Multidisciplinary degree programme with Multiple Entry and Exit option, 202212061843114008' was introduced to the Academic Council.

Resolution 8.3: The guidelines given in GR 202212061843114008 will be implemented for all curriculums in the University from AY 2023-24. Academic Council gave consent for the same. Also, the Academic Council assigned all respective BoS to conduct regular meetings and propose the curriculum in-line with the GR (Annexure 8.3)

Item No. 8.4: Research and Research Promotion Policy
Prof. S.M. Pore Dean (R & D) presented Research and Research Promotion Policy before AC for approval.

Resolution 8.4: Draft was approved by Ac with minor modifications. It was further resolved to form necessary allied polices and necessary committees as per DBATU ACT and statutes, regulations of UGC and AICTE issued from time to time. (Annexure 8.4)

Item No. 8.5: Consultancy Policy
Prof. S.M. Pore Dean (R & D) presented consultancy Policy before AC for approval.

Resolution 8.5: Draft was approved by AC with minor modifications. (Annexure 8.5)
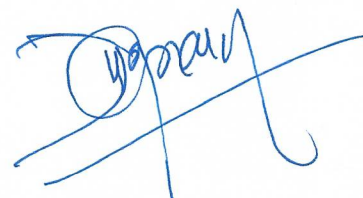
Dr. Babasaheb Ambedkar Technological University Lonere-402103
First Year B. Tech. (All Branches)
Engineering Chemistry Course Objectives

Course Code: BTBS 102/202

Course Objective:

The Student should able to understand the knowledge and to know the fundamentals of Engineering Chemistry and capable to explain its importance in the various fields of Engineering.

Course Outcomes:

1. Student should able to understand and explain the processes of softening of water and its characteristics.

2. Student should able to understand Phase Rule equation and apply for one and two component system.

3. Student should able to understand the concept of Corrosion and its control measures.

4. Student should able to know type of Fuels and Lubricants and their Physical, Chemical Properties.

5. Student should able to understand the basic concepts of Electrochemistry and capable to explain Electrodes and Fuel Cell.

Dr. Babasaheb Ambedkar Technological University, Lonere
Department of Physics
Corse outcomes

Date: 18/01/2023

CO-1: Reveal waves and oscillations concept and its application will bring recent technology to the students at the first year level to develop research orientation programs at higher level.

CO-2: Learning of optics and its applications are to develop skills and elaborate knowledge to use novel instruments in the technological applications.

CO-3: Understand the fundamental concept of nuclear Physics and quantum mechanics to implement the various skills.

CO-4: Study of Crystal structure, X-rays, Maxwell's equations and their applications to heighten the Research, creativity and team work skills.

CO-5: Achieve the knowledge of different material, properties and their applications is the vital role to realize and use in engineering applications.

18/1/2023

Prof. Dr. S. G. Dahotre
Head
Department of Physics

Dr. Babasaheb Ambedkar Technological University

Vidyavihar, Lonere - Raigad 402 103 (Maharashtra) www.dbatu.ac.in

Academic Calendar – UG Sem. VI & VIII (AY 2022 – 23)

Sr. No.	Activity	Commencement Date	Concluding Date	Total Days	Level
1	Commencement of Classes	1 Feb 23	20th May 23	90	UG
2	Mid Semester Examination	27th Mar 2023	1st Apr 23	05	UG
3	End of Classes		20th May 23		UG
4	Practical/Project/Seminar Examination	25th May 23	27th May 23	03	UG
5	End Semester Examination	12th June 23	23thJune 23	11	UG
6	Result Declaration		22th July 23		
7	Commencement of Classes for Next semester	17th July 23			
Holiday	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday	14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 7 May – Buddha Pournima 29 June – Bakari Eid		

Registrar

Dr. Babasaheb Ambedkar Technological University

(Established by Government of Maharashtra and Governed by Dr. Babasaheb Ambedkar Technological University Act No. XXIX of 2014)

Vidyavihar, Lonere - Raigad 402 103 (Maharashtra) www.dbatu.ac.in

Academic Calendar – UG Sem. IV (AY 2022 – 23)

Sr. No.	Activity	Commencement Date	Concluding Date	Total Days	Level
1	Commencement of Classes	13th March 23	8th July 23	90	UG
2	Mid Semester Examination	22nd May 2023	26th May 23	05	UG
3	End of Classes		8th July 23		UG
4	Practical/Project/Seminar Examination	09th July 23	10th July 23	02	UG
5	End Semester Examination	20th July 23	29th July 23	10	UG
6	Result Declaration		29th Aug. 23		
7	Commencement of Classes for Next semester	1st Aug. 23			
Holiday	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday		14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 7 May – Buddha Pournima 29 June – Bakari Eid		

1) All Sundays to be made working except public holidays.
2) Institute may allot additional lectures than prescribed to cover the syllabus.

Registrar

Dr. Babasaheb Ambedkar Technological University

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Vidyavihar, Lonere - Raigad 402 103 (Maharashtra) www.dbatu.ac.in

Academic Calendar Semester-II (AY 2022-2023)

Sr. No.	Activity	Commencement Date	Concluding Date	Working Days	Level
1	Commencement of Classes	10th April 2023	08th July 2023	84	UG & PG
2	Mid Semester Examination	29th May 2023	2nd June 2023	05	UG & PG
3	End of Classes	-	08th July 2023	-	UG & PG
4	Practical Examination	09th July 2023	10th July 2023	02	UG & PG
5	End Semester Examination	20th July 2023	29th July 2023	11	UG & PG
6	Result Declaration	-	29th August 2023		UG & PG
7	Commencement of Classes for Next semester	1st August 2023			UG & PG
Holidays	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday		14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 7 May – Buddha Pournima 29 June – Bakari Eid		

1) All Sundays to be made working except public holidays.
2) Institute may allot additional lectures than prescribed to cover the syllabus.

Registrar

राष्ट्रीय शैक्षणिक धोरण, २०२० अंतर्गत (१) सध्या सुरु असलेल्या ३ वर्षाच्या अभ्यासक्रमावरुन ४ वर्षाच्या अभ्यासक्रमाकडे स्थलांतर (२) एकसमान शैक्षणिक अभ्यासक्रम आराखडा (३) सामान्य अध्यापनशास्त्राऐवजी विधायक अध्यापनशास्त्राचा वापर (४)विद्यार्थ्यांच्या सर्वांगीण विकासासाठी वैयक्तिकृत शिक्षणाचा आराखडा यासंदर्भात करावयाची अंमलबजावणी.

महाराष्ट्र शासन
उच्च व तंत्र शिक्षण विभाग
शासन निर्णय क्रमांक: एनईपी-२०२२/प्र.क्र.१०५/विशि-३,
मंत्रालय, मुंबई ४०० ०३२,
दिनांक: ०६ डिसेंबर, २०२२

संदर्भः- १. शासन निर्णय, उच्च व तंत्र शिक्षण विभाग, क्र. एनईपी-२०२२/प्र.क्र.१०५/विशि-३, दि. २६ एप्रिल, २०२२.

प्रस्तावना-

भारताला ज्ञान महासत्ता बनविण्यासाठी, विद्यार्थ्यांमध्ये आवश्यक कौशल्य व ज्ञानप्राप्ती आणि विज्ञान, तंत्रज्ञान, शिक्षण आणि औद्योगिक क्षेत्रामधील मनुष्यबळाची कमतरता दूर करण्यासाठी, भारतातील लोकसंख्येला गुणवत्तापूर्ण शिक्षण, नाविन्यपूर्ण शिक्षण व संशोधनाच्या सुविधा उपलब्ध करुन देण्यासाठी, भारत सरकारने नवीन राष्ट्रीय शैक्षणिक धोरण- २०२० लागू केलेले आहे. राष्ट्रीय शैक्षणिक धोरण-२०२० ची राज्यात अंमलबजावणी करण्याच्या दृष्टीने या धोरणाचा अभ्यास करुन राज्य शासनास अहवाल सादर करण्यासाठी दिनांक १६ ऑक्टोबर, २०२० च्या शासन निर्णयानुसार डॉ.रघुनाथ माशेलकर, माजी महासंचालक, वैज्ञानिक आणि औद्योगिक संशोधन परिषद, नवी दिल्ली यांच्या अध्यक्षतेखाली कार्यबल गट स्थापन करण्यात आला होता. सदर कार्यबल गटाने दि.३० जून, २०२१ रोजी शासनास सादर केलेल्या अहवालातील शिफारशींचे त्यांची निकड, प्रभाव, अंमलबजावणीची सुलभता, गुंतवणूक आणि निधीची गरज, कार्यवाहीमधील प्राधान्य या घटकांचा विचार करुन तीन टप्प्यात खालीलप्रमाणे वर्गीकरण करण्यात आले आहेः

(१)   तातडीने हाती घ्यावयाचा/किमान संसाधनांची आवश्यकता असलेला कार्यक्रम;
(२)   मध्यम मुदतीचा/मध्यम संसाधनांची आवश्यकता असलेला कार्यक्रम;
(३)   दीर्घकालीन/ज्यासाठी मोठ्या प्रमाणावर निधीची आवश्यकता असलेले कार्यक्रम.

दि.२७ जानेवारी, २०२२ रोजी झालेल्या मंत्रिमंडळ बैठकीतील मान्यतेनुसार डॉ.माशेलकर समितीने शिफारस केल्याप्रमाणे (१) सध्या सुरु असलेल्या ३ वर्षाच्या अभ्यासक्रमावरुन ४ वर्षाच्या अभ्यासक्रमाकडे स्थलांतर करण्याची योजना व त्याबाबतचा आराखडा तयार करणे, (२) एकसमान शैक्षणिक अभ्यासक्रम आराखडा तयार करणे, (३) सामान्य अध्यापनशास्त्राऐवजी विधायक अध्यापनशास्त्राचा वापर करणे, (४) विद्यार्थ्यांच्या सर्वांगीण विकासासाठी वैयक्तिकृत शिक्षणाचा आराखडा तयार करण्यासंदर्भात संदर्भाधीन दि.२६.०४.२०२२ च्या शासन निर्णयान्वये

डॉ. रविंद्र कुलकर्णी,माजी प्र-कुलगुरु, मुंबई विद्यापीठ, मुंबई यांच्या अध्यक्षतेखाली समिती स्थापन करण्यात आली होती. सदर समितीने आपला अहवाल शासनास सादर केला असून त्यातील शिफारशी शासनाने स्विकारल्या आहेत. तसेच, या शिफारशीची विद्यापीठाच्या विहित प्राधिकरणांची मान्यता घेऊन तातडीने अंमलबजावणी करण्याबाबत विद्यापीठांनी निर्णय घ्यावा असे सर्व संबंधित विद्यापीठांना दिनांक २० ऑक्टोबर, २०२२ आणि दिनांक ४ नोव्हेंबर २०२२ च्या पत्रान्वये कळविण्यात आले आहे. त्यादृष्टीने राष्ट्रीय शैक्षणिक धोरण-२०२० ची सन २०२३-२४ पासून प्रभावी व एकसमान अंमलबजावणी करण्याच्या दृष्टीने सर्व अकृषि विद्यापीठे, अभिमत विद्यापीठे, स्वयं अर्थसहाय्यित विद्यापीठे व समूह विद्यापीठे आणि सर्व शैक्षणिक संस्थांसाठी निर्देश जारी करण्याची बाब शासनाच्या विचाराधीन होती.

शासन निर्णय:-

राष्ट्रीय शैक्षणिक धोरण, २०२० अंतर्गत उपरोक्त नमूद बाबींसाठी स्थापन केलेल्या डॉ.रविंद्र कुलकर्णी,माजी प्र-कुलगुरु, मुंबई विद्यापीठ, मुंबई यांच्या अध्यक्षतेखालील समितीने सादर केलेल्या अहवालातील शिफारशींच्या अंमलबजावणीच्या अनुषंगाने सोबत जोडलेल्या परिशिष्टामध्ये निर्देश जारी करण्यात येत असून सदर निर्देशांची वर्ष २०२३-२४ पासून सर्व अभ्यासक्रमांसाठी अंमलबजावणी करण्यात यावी.

सदर निर्देश महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम, २०१६ मधील कलम ५ (८१) मधील तरतूदीनुसार निर्गमित करण्यात येत आहेत.

सदर शासन निर्णय महाराष्ट्र शासनाच्या www.maharashtra.gov.in या संकेतस्थळावर उपलब्ध करण्यात आला असून त्याचा सांकेतांक २०२२१२०६१८४३११४००८ असा आहे. हा शासन निर्णय डिजीटल स्वाक्षरीने साक्षांकित करून काढण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नांवाने,

(अजित बाविस्कर)
उप सचिव, महाराष्ट्र शासन

प्रत,
१. मा. राज्यपाल यांचे प्रधान सचिव, राजभवन, मुंबई,
२. मा. मुख्यमंत्री यांचे प्रधान सचिव, मंत्रालय, मुंबई,
३. मा. उपमुख्यमंत्री यांचे उप सचिव, मंत्रालय, मुंबई,
४. मा. मंत्री, उच्च व तंत्र शिक्षण विभाग, यांचे खाजगी सचिव, मंत्रालय, मुंबई,
५. मा. कुलगुरु, सर्व अकृषि विद्यापीठे, अभिमत विद्यापीठे, स्वयं अर्थसहाय्यित विद्यापीठे व समूह विद्यापीठे.
६. कुलसचिव, सर्व अकृषि विद्यापीठे, अभिमत विद्यापीठे, स्वयं अर्थसहाय्यित विद्यापीठे व समूह विद्यापीठे

७. संचालक, उच्च शिक्षण/ तंत्रशिक्षण/ कला/ ग्रंथालय

८. प्रधान सचिव, उच्च व तंत्र शिक्षण विभाग, यांचे स्वीय सहाय्यक, मंत्रालय, मुंबई,

९. उप सचिव (विशि), उच्च व तंत्र शिक्षण विभाग, यांचे स्वीय सहाय्यक, मंत्रालय, मुंबई,

१०. निवडनस्ती (विशि-३).

शासन निर्णय क्रमांक: एनईपी-२०२२/प्र.क्र.१०५/विशि-३,दि. ०६ डिसेंबर, २०२२ सोबतचे परिशिष्ट

DIRECTIVES (निर्देश)

1. **National Credit Framework (NCrF):**

   For creditisation and integration of all higher education qualifications leading to a certificate/ diploma/ degree with multiple entry and exit options, the State Universities shall refer to National Credit Framework (NCrF) which encompasses the qualification frameworks for higher education, vocational & skill education and school education, namely National Higher Education Qualification Framework (NHEQF), National Skills Qualification Framework (NSQF) and National School Education Qualification Framework (NSEQF) respectively.

2. **Structure of Four years multidisciplinary UG Programme and Five Years Integrated Multidisciplinary Master's Degree Programmes with Multiple Entry and Exit Options at Different Levels:**

   (1) Students will have the flexibility to enter a Four years multidisciplinary Under-Graduate Programme in odd semesters and exit a programme after the successful completion of even semesters as per their future career needs.

   (2) Students will get a Certificate after a One year programme (minimum 40 Credits), a Diploma after Two years (minimum 80 Credits), a Bachelor's degree after Three years (minimum 120 Credits), and a Bachelor's degree with Research or Honours after Four years (minimum 160 Credits).

3. **Qualification Type and Credit Requirements of Four Years Multidisciplinary Degree Programme with Multiple Entry and Exit Options**

   (1) Details of qualifications, minimum credit requirements, exit credit courses, year and semester are as under:

Levels	Qualification title	Min. Credit requirements	Exit Credit Courses	Year and Semester
4.5	UG Certificate	40	10- credit bridge course(s) lasting two months	1 year, 2 Semesters
5.0	UG Diploma	80	10- credit bridge course(s) lasting two months	2 years, 4 Semesters
5.5	Bachelor's Degree	120	10- credit bridge course(s) lasting two months	3 years, 6 Semesters
6.0	Bachelor's Degree-Honors	160	-	4 years, 8 Semesters
6.0	Bachelor's Degree-Research	160	-	4 years, 8 Semesters
6.0	Bachelor's Degree-Engineering	160	-	4 years, 8 Semesters

(2) An exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship that will help the graduates acquire job-ready competencies required to enter the workforce will be an additional requirement for the award of the undergraduate Certificate/ Diploma/ three year Bachelor's Degree.

(3) Besides defining titles for common fees for the programme, the fee structure needs to be defined for individual courses which will enable the mechanism for working out the overall fee structure based on the combinations of courses selected by the students for the particular programme.

(4) On exit, the students will have the option to re-enter the programme from where they had left off, at the same or in a different higher education institution. Re-entry at various levels for lateral entrants in academic programmes should be based on the earned and valid credits as deposited and accumulated in the Academic Bank of Credits (ABC) through Registered Higher Education Institutions (RHEI) and proficiency test records.

(5) PG curriculum, as illustrated below, also offers flexibility in the design and duration of One-year Post-Graduate Diploma (PGD), One/ Two year Post-graduate Programme and 5 Years Integrated Multidisciplinary Master's degree programmes with multiple Entry and Exit options at different levels.

    (a) Post-Graduate Diploma (PGD): Programme duration- One year (2 semesters) after any bachelor's degree, min. 40 credits
        (i) UGC: 1-Year (2 semesters) Post-Graduate Diploma (PGD) after 3-years Bachelor's degree: Level 6.0
        (ii) UGC: 1-Year (2 semesters) PGD after 4 years Bachelor's degree (Honors/ Research): Level 6.5
        (iii) AICTE: 1-Year (2 semesters) PGD after 4 years Bachelor's degree (Engg.): Level 6.5

    (b) Master's Degree:
        (i) UGC: 2-Years (four semesters) Master's Degree after obtaining a 3-years Bachelor's degree, Minimum 40 credits/year, second year devoted entirely to research, PG – 2nd year: Level 6.5

<div align="center">OR</div>

        1-Year (two semesters) Master's Degree after obtaining a 4-year Bachelor's degree (Honours/Research): Minimum 40 credits: Level 6.5

        (ii) AICTE: 2-Years (four semesters) Master's Degree ME/ M. Tech. after obtaining a 4 years Bachelor's degree in Engg. and Tech.), Minimum 40 credits/ year

        PG 1st year (Engineering.): Level 6.5; PG- 2nd (Engineering.): Level 7.0

    (c) Learner after completing the first year of M. Tech. program, shall be eligible for an M. Voc. degree, upon exit. Having M. Voc. degree, however, is not mandatory for entry into an M. Tech. program.

    (d) Level 8 represents Ph. D. Research Degree.

(e) A 5-year Integrated Bachelor's and Master's programme shall have a minimum of 200 credits. The exact number of credits for different UG and PG programs will be determined by the individual Universities but shall lie within the stated limits.

(f) Master's and doctoral programmes, while providing rigorous research-based specialization, should also provide opportunities for multidisciplinary work, in academia, government, research institutions, and industry.

4. Lateral Entry/ Re-entry at higher Levels after exit from lower levels of four years multidisciplinary UG degree programme:

(1) The credit points earned and accumulated shall be used to determine the eligibility for taking admission to various programs at multiple levels, subject to fulfilment of the broad principles laid down under NCrF. Students who leave with a Certification, Diploma, or a Basic Bachelor's Degree will be eligible to re-enter the programme at the exit level to complete or progress to the next level through lateral entry mode. Depending upon the academic and physical facilities available, the State Universities/ Autonomous Colleges (Higher Education Institutions or HEI) may earmark specific seats/ intake for lateral entry into the second year/ third year/ fourth year of a four years multidisciplinary UG degree programme as approved by Professional Standard Setting Bodies (PSSB/Govt. of Maharashtra/ statutory council of affiliating University plus any consequential vacancies caused by exits to an ongoing programme (four-year Degree Programme and Integrated Master's or second year Master's). Lateral entry or Re-entry is open to those students if he/she has either -

(a) successfully completed the first year/second year/third year of the particular four years multidisciplinary degree programme in any ABC registered HEI with valid credits in ABC and re-entering into the second year/third year/fourth year, respectively of the same four years degree programme of any ABC registered HEI, within stipulated/ permissible period of years as decided by Statutory Councils of that HEI

OR

(b) already successfully completed a multidisciplinary four-year first-degree programme and is desirous of and academically capable of pursuing another multidisciplinary four years first-degree programme in an allied subject.

(2) A student will be allowed to enter/re-enter only at the odd semester. Re-entry at various levels for lateral entrants in academic programmes should be based on the earned and valid credits as deposited and accumulated in Academic Bank of Credits (ABC) through Registered Higher Education Institutions (RHEI) and proficiency test records. Hence, the University/ College will have to work out prerequisites and entry norms for lateral admissions such as the previous year Cumulative Grade Point Average (CGPA), a written test and/or interview, the requirement of bridge courses etc. In case the lateral entrant is desirous of joining four years degree programme different from his/her earlier Programme (i.e. with different combinations of Major and Minor), then the Board of Studies of that Higher Educational Institution shall decide the requirements of bridge courses, prerequisite courses and additional credit

requirements for new combinations of Major and Minor which the lateral entrant must fulfil for the purpose of joining new Programme. However, in terms of the admission eligibility requirements, the student shall belong to the same faculty/ discipline in terms of Major Subject i.e., the Major subject of his earlier Programme and the Major subject of the new Programme for which he is seeking admission must be from the same faculty/discipline. Reservation for lateral entry will have to be executed as per the Government of Maharashtra norms.

5. **Distribution of Credits across Multidisciplinary Four Years Degree Programme:**

   (1) Four-year multidisciplinary degree programme with Honors/ Specialization Degree will have Internship and Core /Major Courses with a minimum of 20 credits per Sem. in the Fourth Year.

   (2) Four-year multidisciplinary degree programme with Research will have Research Projects, Seminars, Dissertations and Internships with a minimum of 20 credits per Sem. in the Fourth Year.

   (3) Students shall select a 'Major or Core Subject/ Discipline' and a 'Minor Subject/Discipline' from the lists of various Subject Combinations and Options provided by the State Universities/ Autonomous Colleges (higher Education Institutions or HEI). In general, for the four years multidisciplinary bachelor's degree programme, the distribution of credits will be as follows:

      (a) Disciplinary/interdisciplinary Major/ Core Subject (minimum of 40-56 credits)- Mandatory and Elective Courses
      (b) Disciplinary/interdisciplinary Minor Subject (maximum of 20-28 credits)
      (c) Skill based/Vocational studies corresponding to the Major/ Core Subject (12-18 credits)
      (d) Field projects/internship/apprenticeship/community engagement and service corresponding to the Major/ Core Subject (24- 32 credits) with a maximum of six credits per Semester
      (e) Generic/ Open Electives through Baskets of Elective Courses (8-12 credits),
      (f) Ability Enhancement Courses including Languages, Literature and Environmental Studies (12-14 credits),
      (g) In-built modules on the Indian Knowledge System (IKS) in Major/ Core Subject at Level 4.5,
      (h) Value-based Education, Life Skills and Professional Ethics (4-6 credits)
      (i) Co-curricular Courses such as Sports and Culture, NSS/NCC and Fine/ Applied/ Visual Arts(2-6 credits).

   (4) The National Skills Qualifications Framework (NSQF) organizes qualifications for Vocational and Skill Courses in a series of 8 levels based on professional knowledge, professional skills, core skills and responsibilities, in the increasing order of complexity and competency.

   (5) University Grants Commission (Credit Framework For Online Learning Courses through Study Webs of Active-Learning for Young Aspiring Minds) Regulations, 2021, permits up to 40 per cent of the total courses being offered in a particular

programme in a semester through the Online Learning Courses offered through the Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) platform.

(6) NCrF proposes that the number of credits per year for 1200 learning hours will be 40. Wherever necessary, if the curriculum so demands, the concerned State University may consider having more than 40 credits for a particular program. However, the minimum credits for any program against 1200 hours of learning in a year will be 40. The Board of Studies (BoS) and Academic Council (AC) of Universities and Autonomous Colleges shall adopt Learning Outcomes-based Approach to Curriculum Planning and Development based on Key Qualification Descriptors and Graduate attributes.

6. Examination and Assessment Process:

(1) The basic principle of the credit framework is that credits are a function of the successful completion of a program of study/ vocational education/ training and assessment. No credit can be earned by the student unless the student is assessed for the achievement of the desired competencies and outcome of a program.

(2) Exit options are provided with certification, diploma and basic Bachelor's degrees to the students at the end of the second, fourth and sixth semesters of a four years multidisciplinary degree programme. Students will receive a Bachelor's degree with Honours/ Research on successfully completing of all eight semesters of the UG Program either at a stretch or with opted exits and re-entries.

(3) For the smooth success of four-year multidisciplinary degree programme with multiple entry and exit systems, the examination mode should be based on the combination of innovative trends in formative (informal and formal tests administered during the learning process) and summative (evaluation of students learning at the end of an instructional unit) examination modes in line with the UGC Report on 'Evaluation Reforms in Higher Educational Institutions (2019)'.

7. Declaration of Results:

(1) Declaration of result is based on the Semester Grade Point Average (SGPA) earned towards the end of each semester or the Cumulative Grade Point Average (CGPA) earned at the completion of all eight semesters of the programme and the corresponding overall alpha-sign or letter grades as given in Table 2. If some candidates exit at the completion of the first, second or third year of the four years Undergraduate Programmes, with Certificate, Diploma or Basic Degree, respectively, then the results of successful candidates at the end of the second, fourth or sixth semesters shall also be classified on the basis of the CGPA obtained in the two, four, six or eight semesters, respectively. Successful candidates at the end of the tenth semester of the integrated Master's Degree Programmes shall also be classified on the basis of CGPA obtained in the ten semesters of the Programmes. Likewise, the successful candidates of one year or two semesters Master's Degree Programme are also classified on the basis of the CGPA of two semesters of the Master's Degree Programme.

Table 2: Letter Grades and Grade Points

Semester GPA/ Program CGPA Semester/Program	% of Marks	Alpha-Sign / Letter Grade Result
9.00-10.00	90.0-100	O (Outstanding)
8.00-<9.00	80.0-<90.0	A+ (Excellent)
7.00-<8.00	70.0-<80.0	A (Very Good)
6.00-<7.00	60.0-<70	B+ (Good)
5.50-<6.00	55.0-<60.0	B (Above Average)
5.00-<5.50	50.0-<55.0	C (Average)
4.00-<5.00	40.0-<50.0	P (Pass)
Below 4.00	Below 40	F (Fail)
Ab (Absent)	-	Absent

(2) A student obtaining Grade F shall be considered failed and will be required to reappear in the examination. For non credit courses 'Satisfactory' or "Unsatisfactory' shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA. Based on the above recommendations on Letter grades, grade points and SGPA and CGPA, the State Universities may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.

8. **Award of Major and Minor Degree:**

(1) A student pursuing four-year multidisciplinary UG programme shall be awarded an appropriate Honours/ Research degree in Major/ Core Subject on completion of VIII Semester with the minimum of 160 credits if he secures in that Subject at least 50% of the total credits for that programme. He shall thus study the specific number of Mandatory Core Courses, Core Electives, Vocational and Skill Courses and Field projects/ Internships connected to Core Subjects in eight semesters so as to cover at least 50% of the total credits.

(2) In case of Research Degree, a student shall pursue research project and write dissertation in that Major in the VII and VIII semesters.

(3) A student is eligible for the award of Minor Degree on successful completion of four years Multidisciplinary Degree Programme with the minimum of 160 credits if he earns 20-28 credits in that Minor Subject. The award of Minor Degree is independent of the award of the Major Degree.

9. **Universities to frame Statutes/Ordinances/Regulations:**

All Universities in the State of Maharashtra including Self-Financed Universities and Open University shall frame Statutes/Ordinances/Regulations in this regard in accordance with the provisions of the respective University Acts and implement the same from the academic year 2023-24 for all programs

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Research & Research Promotion Policy

Dr. Babasaheb Ambedkar Technological University

Lonere 402 103, Dist- Raigad,

Maharashtra, INDIA

Research Policy

Statement of Research Policy

National Education Policy (NEP) 2020 strongly desires promotion of quality research within Domain of Higher Education. Research, innovation and development are important aspects to enhance quality education by the Higher Education Institutions (HEIs). Techno-societal challenges of our country can only be addressed by having a output of higher education committed to fulfilment of industry needs. Special insistence on research, innovation and technology development shall be part of curriculum in higher education. The integration of Research, Innovation and Technology Development is the foundation of Atma-Nirbhar Bharat (Self-reliant India). Coordination and maintenance of standards in teaching and research is statutory responsibility of University. While maintaining certain standards, it is equally important to provide framework of the conducive environment which leads to consistent elevation of those standards. With these expectations DBATU research policy aims at as under.

Objectives of the Research Policy

- ❖ To provide conducive ecosystem for fostering research culture
- ❖ To provide framework of rules, procedures and guidelines for conducting research activities and promotion of research and development;
- ❖ To establish rational, merit-based, transparent decision-making system for allocation of financial resources and other support systems
- ❖ To motivate faculty members for quality and need-based research
- ❖ To coordinate UG, PG and doctoral level research with industrial needs and main stream areas
- ❖ To provide support for consultancy, collaboration and outreach (Extension) activities to enhance the research culture

❖ Identifying and informing researchers about the appropriate research opportunities announced by different academic, research, industry or government organizations

❖ Promoting interdisciplinary research and establishing modalities for preparing and undertaking joint research projects covering more than one knowledge domain as well as policies for involving external agencies/experts in such projects

Strategic Planning

In order to achieve the set objectives, it is necessary to identify the activities and action plan to perform the same. Broadly, it need to be accepted that, hunting for opportunities of research and associated grants, submission of quality proposals, readiness to execute the project are key parameters of the process in research. University will make all necessary efforts for:

1) Strengthening the institutional capacity for strategic, technical and operational planning, budgeting and control of all research activities of the University

2) Creating and administer a research fund for supporting and facilitating research initiatives and projects of faculty members and students

3) Developing rules, procedures and guidelines for granting research support, instituting awards, and supporting all other related activities

4) Developing rules, procedures and guidelines for granting study leave, sabbatical leave, duty leave, reduction in workload, etc. for faculty members undertaking research activities

5) Providing a modality of for proper coordination of all research activities of the University and aligning these to the vision and missions of the University and national development goals.

6) Preparing and updating the research agenda of the University outlining the preferred focus areas and priorities of research activities to be supported

7) Guide faculty members in the effective integration research projects with the regular curriculum implementation and curriculum enrichment activities

8) Identifying and informing researchers about the appropriate research opportunities announced by different academic, research, industry or government organizations

9) Promoting interdisciplinary research and establishing modalities for preparing and undertaking joint research projects covering more than one knowledge domain as well as policies for involving external agencies/experts in such projects

10) Enabling framework for researchers to obtain sponsorships for research projects and which makes the participating researchers responsible for the successful implementation of the project

11) Developing and promoting linkages with the Research Council of the University of Delhi and enable all the researchers of the University to benefit from the activities and programs of the council

12) Identifying and establishing linkages including MOU s for long term relationships with national and international research organizations for widening the scope of research opportunities and funding options available to the teachers and students of the University.

13) Identifying and establishing linkages including MOU s for long term relationships with industry bodies and individual companies for creating opportunities for teachers and students of the University to involve themselves in real life research projects and obtaining sponsorships

14) Encouraging and facilitating the publication of the research work/projects in reputed academic journal

15) Encouraging and facilitating the presentation/communication of the research work/projects as well as their findings and recommendations through academic events such as workshops/seminars/guest lectures or the media

16) Compiling data on all the research work/projects undertaken by the teachers and students in to a database for easy monitoring and analysis of the progress being made by them from year to year

17) Providing mechanism to ensure that academic staff attain the desired mix of teaching, research and consultancy outputs so as to achieve the level stated in the University mission;

18) Adopting research code, which informs all researchers about the ethical and legal norms and principles to be followed in the conduct of research

19) Preparing and implementing research quality assurance mechanism for ensuring that all research activities of the University conform to standard quality specifications

20) Developing and administering rules and procedures to ensure the compliance of all researchers to the research quality assurance framework, the research code and all the applicable rules and regulations.

Research Misconduct

Research misconduct is defined as any fabrication, falsification or plagiarism in proposing, performing or reviewing research or in the reporting results of research. Research misconduct does not include an honest error or difference of opinion, authorship dispute that do not involve plagiarism, and violations of other policies. The University believes that the occurrence of misconduct is a threat to the basic principles of research. The University shall put in place a mechanism for taking action on all allegations of misconduct, and shall ensure that the procedures for the inquiry, investigation and adjudication of any misconduct are well defined and just for all parties involved.

Research and Development Cell

Extent and Applicability: This shall apply to all the researchers and to all the research related activities of the University. The term 'researchers' are defined to include:

a) All staff, permanent, probationary and Adjunct, who are active in teaching, research, administration, and provision of any form of support to the core functions of University;
b) All students registered with the University;
c) All mentors, guides, external experts, and sponsors associated with any of the research activities of the University;
d) All academic and administrative departments of the University.

Research activities shall be mentored, monitored and administered by Research and Development Cell (RDC) of the University. Organizational structure of RDC comprising of various committees for specified functions shall be as under

1) Vice Chancellor as Chairman
2) Dean (R&D) as Convenor
3) Chairman of Committee for Finance and Infrastructure as member
4) Chairman of Committee for Research Program and Policy Development as member
5) Chairman of Committee for Collaboration and Community as member

6) Chairman of Committee for Product Development monitoring and Commercialization as member

7) Chairman of Committee for IPR, Legal and Ethical Matters as member

8) CEO of Incubation Center as member

9) University Faculties holding charge of research project sponsored by DST, AICTE, UGC, CSIR, ICSSR or such organizations as members (max. 05)

Dean (R &D) shall propose formation of committees as in (3) to (7) above for approval by Vice Chancellor

Components of R & D

Research at DBATU shall be carried out under 3 major components: (i) University sponsored research, (ii) Research programs, and (iii) Externally funded projects.

1) **University Sponsored research:** University promotes the research at individual faculty level or group of faculty at the department or inter-department research. University seeks to strengthen research and innovation activities by motivating faculty members and students who may not get external funding in the beginning of their research career. The Seed money scheme and grants offered by the University will enable an early start of research work until sponsored projects from outside agencies are secured by the faculty. The details of these are provided under initiations to promote research.

2) **Research programs:** The University schools/departments / Research Centers can offer research programs. There can be multiple areas of research pertaining to the disciplines based on the faculty expertise available in the department. These centers will also focus on offering of formal PG and PhD Programs with due concurrence of University Rules. They will also contribute towards imparting research experience for UG students via programs like Research Experience for Undergraduates (REU).

3) **External Funded projects:** University promotes faculty to explore funding sources by DST, AICTE, UGC, CSIR or such organizations or industry sponsored projects.

Projects of GoI such as Research in Janjati areas, research for tribal development require blending of social science with technology and problem-solving approach. University will encourage participation in such projects.

Challenges in grooming R & D Culture

As an affiliating State Technological University, DBATU need to groom proper R&D culture in its affiliated institutes. Many institutes do not have mandatory research goals for individual faculty, and most do not have adequate systems or infrastructure to support quality research. The lack of an encouraging academic environment, ill-equipped libraries, inadequate labs and equipment, poor infrastructure, lack of funds, faculty crunch, etc. are some of the factors contributing to the depressing picture of research in a typical Indian academic institution. Research initiatives are necessary to address following challenges:

1) Lack of Synergy in research initiative
2) Lack of visibility and ability to attract funding
3) Lack of experience to handle funded projects
4) No tradition of research and attitude for development
5) Inadequate support facilities
6) No reward for research

Interaction among world-class universities entails international student mobility, faculty exchanges, research, and teaching programs that require a globally competent academic labor force.

In order to address above, it is necessary to implement steps for promotion of research through a policy and a synchronized action plan.

Research Promotion Policy

Research promotion policy of university aims to foster and sustain excellence an leadership in Research and Innovation. Faculty, students and grooming researchers need to be encouraged to break new ground in research and achieve first of a kind impact in technological applications / designs / formulation of new public policies / institutional capabilities. Students will be encouraged to learn about the world through hands on practical problem-solving projects in collaboration with fellow student in other department and with our faculty as supervisors / mentors. Faculty and students shall be encouraged to involve in interdisciplinary / multi-disciplinary / translational research in finding scientific and technological solutions to ground challenges.

University desires to build strong and robust research and innovation ecosystem through definite objectives as under.

1) To nurture an environment of undertaking socially useful and / or industry needed research with potential for commercialization.
2) To establish Research centers within University with potential for excellence.
3) To forge interdisciplinary collaborations and partnerships nationally and globally.
4) To motivate faculty members for publication of quality research work with ethics and integrity.
5) To continuously monitor the research outputs for anticipated deliverables
6) To design an excellent research environment and infrastructure which helps effective integration of teaching and research,
7) To foster inter, multi and transdisciplinary research.
8) To publish papers in journals of international repute, file patents and transfer technologies to relevant industries
9) To foster socially relevant research aligned to human values and scholarship
10) To network with larger community; viz. industries, universities, and other institutions of higher learning.

Incentives

In order to achieve the objectives as above, it is necessary to provide appropriate incentives to well performing faculty members, research scholars and students. Broadly the incentives are provided in following form.

1) Providing generous seed funding to establish research facilities and laboratories
2) Providing international travel grant to faculty and students to enable them to participate and present papers in International Conferences providing large funding in the selected emerging technologies to group of active faculty members
3) Provide funding for start-ups to students and faculty members
4) To incentivize the generation of intellectual capital,
5) To recognize researchers on their research achievements by a research award.
6) To encourage the faculty members for creating, protecting and leveraging Intellectual Property Rights.

7) Annual Best Teacher Award in each faculty shall be awarded according to parameters judged by committee constituted by the Research Board. The award shall include a certificate and a cash prize as rewarded by the committee and approved by the Research Board.

8) Incentives for Research projects, publications and research related activities. Research Paper / Article published in any SCI/SCOPUS Indexed journal need particular appreciation.

9) Financial Support for Participation in Seminar, Conference, Workshop, FDP, Journal Publications which include support for registration, travel, accommodation and food if not provided by organizers.

Consultancy Policy

and
Norms for Consultative Practices

Dr. Babasaheb Ambedkar Technological University

Lonere 402 103, Dist- Raigad, Maharashtra, INDIA

Statement of Policy

Engineering and Technology have a mandate of implementation of knowledge. It is widely accepted that consultancy constitutes an important professional activity in an Institution devoted to Technological Education arid Research. Consultancy assignments provide exposure to real life problems requiring solutions in specified time frames. Consultancy can help an academician in making teaching interesting and realistic through real life examples and case studies drawn from the experience gathered through implementation of projects. Consultancy can also provide clues towards selection and pursuit of R&D projects with a strong commitment for application. In the overall analysis, consultancy assignments can be professionally enriching and can significantly elevate the qualities of teaching, learning, research and development and, contribute towards technological growth.

Consultancy assignments also provide opportunities for elevating one's professional status and ensure visibility on global canvas. An active consultant from an academic Institution can not only play a vital role in shaping governmental and corporate policies through significant technological inputs, but also contribute substantially towards technical decisions aimed at corrective measures, creativity, and performance improvements. High levels of professional status and recognition can bring immense satisfaction to the individual and credit to the Institution. In addition, consultancy assignments offer opportunities to the individual as well as the Institution to augment income.

Substantial consultancy activities have also been seen to have an indirect but very significant beneficial impact on teaching and research. Invariably hardware, software, unused components and consumables accruing from consultancy projects provide significant support to student projects. Active consultancy can also assist in the placement of students. Evidently, consultancy needs to be recognized as an important facet of the Institutional activities and, provided with the requisite levels of support, and appropriate recognition as a performance indicator.

In the light of changing economic scenario, government policies and priorities, University considers consultancy projects as an important means for extending benefit of professional expertise of faculty at the University to the sponsoring agencies. This helps broadening the experience base of the University faculty and staff and also as a tool for contributing to the country's industrial and economic growth. As a matter of policy, the University encourages its faculty members to undertake consultancy work.

Norms for Consultative Practices

1   Consultancy Services may be offered to Government Departments, Industries, Service Sector, and other National and International agencies in areas of expertise available in University.

    1.1 Services offered will carry with them obligations and ethical requirements associated with 'Professional Services' and faculty associated with work shall remain fully responsible.

    1.2 Standardization and Calibration services may be offered in areas in which facilities are available or can be augmented. Such services should normally be backed by periodic Calibration / Standardization of laboratory equipment used for such purposes.

    1.3 Consultancy assignments need to be structured and executed in the spirit of promoting Institute - Industry Interaction, and as a vehicle for augmenting (current) levels of excellence in teaching and research, and in the process generating funds.

2   Consultancy and related services offered may be divided into broad categories as below:

  Type I: Involving nominal use of University Facilities, i.e., open ended and advisory assignments, Assignments requiring Research and Developmental work involving nominal use of institutional facilities and not falling under Type II below.

  Type II: Involving Laboratory Testing of materials, Calibration, Standardization tasks.

3   Consultancy and related assignments can be taken up by Faculty and/or Research Scientists in Departments / centers - (hereafter referred to as consultants). Faculty may make correspondence necessary with sponsors to fetch consultancy projects to University. If it a group activity, faculty

dealing with major part of work shall be the Principal Investigator (PI).

4 Time spent on consultancy and related assignments shall be limited to the equivalent of 52 working days in a year, preferably at the rate of one working day per week. In addition, Consultants remain permitted to utilize, on an average one non-teaching day per week and full vacations period including all public holidays.

  4.1 Consultancy related assignments may, however, be taken up and implemented, within the constraints indicated above, provided they do not have any adverse impact on the ongoing and potential academic and research activities.

  4.2 Travel out of campus should be undertaken with prior intimation to the Head of Department / Centre. In case of Heads of Department / Centers, intimations should be sent to Vice-Chancellor. In emergencies, post-facto sanction shall be considered acceptable.

5 Consultancy requests may be received by Head of Department concerned (HoD) or a faculty member if his/her services are preferred by the client. Work can be assigned to specific consultant/s depending on expertise and competence of the faculty.

  5.1) Consultancy project proposals are to be approved by HoD concerned for revenue up to ` 1 Lakh. Information of such approvals shall be submitted to Dean (R&D). Approval for revenue more than ` 1 Lakh but less than ` 3 Lakh shall be granted by Dean (R&D). Information of all proposals sanctioned for revenue less than` 3 Lakh shall be submitted by Dean (R&D) to Vice-Chancellor. Proposals involving revenue more than ` 3 Lakh shall be approved by Vice-Chancellor after recommendation from HoD and Dean (R &D). Approvals shall be obtained in format as provided in annexure A

  5.2) If a client prefers services of a specific consultant, that assignment shall be assigned to the consultant/s identified by client.

  5.3) PI, after obtaining formal approval of University Authority shall make required professional Correspondence with the client.

  5.4) In an extreme emergency, a consultant may take up an assignment with intimation to HoD, and seek post-facto approval. It would, however, be necessary to ensure that the task involved is not a major one entailing total charges not more than Rs.50,000.

  5.5) Consultancy charges once finalized will not be negotiable. However, if the scope is altered, a fresh estimate shall be considered.

6 Consultants taking up developmental work need to be aware of prospects of patents/copyright and related IPR issues. It is to be noted that patents/copyright are granted to inventors/authors and clients funding such work may overlook this aspect. The feasibility of working out suitable arrangements in this regard should be discussed with HoD and suitable arrangements worked out in deserving cases. The arrangements could include (i) A ward of the patent/copy right registration to the inventor/author with assignment of all commercial rights to the funding client, or (ii) Charging of developmental costs and obtaining a share of royalties and/or down payment.

7 All fees/charges in connection with consultancy projects shall be credited to the bank account (IRG account) created by the University for this purpose. The charges for any assignment are normally payable in advance. However, exceptions may be made in respect of assignments involving charges exceeding Rs. 25,000 and with implementation periods exceeding 2 months. In the case of large assignments, a payment schedule, linked to milestones, can be worked out. Such a payment schedule should ensure that the number of installments are reasonable and consistent with ease of implementation.

8 Disbursement of consultancy revenue after meeting all expenses shall be as under:

8.1) For Type I Projects: Consultant/s shall receive 70 % share

University shall receive 30 % share

8.2) For Type II Projects: Consultant/s shall receive 50 % share

University shall receive 50 % share

8.3) Disbursement shall be addressed at level of a) Asstt. Registrar for distribution revenue up to ` 5000 and b) Dy. Registrar for all cases of revenue more than ` 5000.

9 From University share, honorarium shall be payable to following in proportion mentioned below:

9.1) For all projects, Head of Department shall receive 1 % of revenue as sitting honorarium.

9.2) Office staff covering all relevant sections shall receive honorarium as 2.5 % of revenue, distributed at discretion of Head of Section concerned

9.3) Supporting Technical Staff and Departmental Office Staff shall receive honorarium as 2.5 % of revenue, distributed at discretion of Head of Department concerned.

10 Services of external consultants may be utilized in order to provide comprehensive services to clients. Such external consultants will be entitled to a lump sum honorarium as recommended by PI, who will also be responsible for professional aspects of services of external consultant. Any other help such as typographical work, report preparation, drafting of drawings and reports, etc.

shall be availed on job basis. Such services to be obtained from hired resources shall always remain deemed to be permitted at level of PI and deductible from total consultancy fees. Expenditure for travel and industrial visit concerned with assignment shall be chargeable to consultancy fee to be received or received.

11   Services of students may be utilized with the prior approval of the HoD. The services of students so utilized may be compensated through honoraria paid out of Total Consultancy Fees. This facility be used if considered to benefit students for academic front or promoting "earn and learn" in case of economically weaker students or for those students voluntarily opting for participation.

12   Provision needs to be made for Professional Development expenses for facilitating professional development and elevation of faculty as consultants, to enable them to meet the challenging and diverse requirements of national and international clients. In pursuit of this, it is proposed that a Professional Development Fund be created.

12.1) Professional Development Fund will be operated by the HoD. An Advisory Committee may draw up norms and guidelines for extending professional development assistance to individual consultants, for approval by the Vice Chancellor. In drawing up the norms and guidelines, due consideration needs to be given to the level of professional activity of the applicant - through consultancy, industry funded sponsored research, and other externally funded sponsored research leading to major augmentation of institutional research facilities. HoD may process requests for professional development assistance as per the approved norms and guidelines.

12.2) Component of University Share from Consultancy Revenue mentioned below shall be utilized for generation of Professional Development Fund.
Type I Projects: 50 % of University Share
Type II Projects: 25 % of University Share

13   Minimum charges for Type II Projects, shall be on the basis of approved rate list of services for the departmental laboratories. For Type I projects, PI shall be liberty to fix the charges.

14   There will be no limit on the total remuneration to be received from Consultancy projects during the financial year by faculty & other Academic staff. However, income tax rules of the Government shall be followed. It shall be responsibility of the individual faculty member to pay appropriate taxes.

15   Consultancy Fees as well as honoraria payable may be disbursed as indicated below:

15.1) For short duration jobs entailing full advance payment, full disbursement upon completion of the job and receipt of a certificate to that effect by the project leader

15.2) In the case of long duration jobs entailing advance payment of installments linked to milestones, partial disbursements may be made; such disbursements will be linked to the phase-wise estimates to be provided by the project leader. and, the phase completion certificate.

16 Confidentiality, if required by the client, is to be honored and strictly observed in respect of all consultancy and related jobs. All staff/students involved should undertake in writing in this regard. All results sheets and reports should be retained as confidential documents, and, access and circulation should be restricted. Circulation and forwarding of information/reports should be in sealed envelopes marked 'classified'. Project Leader concerned shall be responsible for observing confidentiality.

17 Information for administrative purposes of consultancy projects undertaken by the department shall be available in summarized form with Head of Department. The technical information / reports in consultancy services shall be preserved as 'Classified Documents' for a period of typically five years and may be destroyed thereafter.

18 Technology Transfer fees and Royalties earned from consultancy projects may be disbursed along the same lines as consultancy income. The facility of contribution to the Professional Developmental Account may also be extended to consultants identified with developmental efforts leading to such Technology Transfers. However, remuneration or honorarium received in respect of examination work, contribution of abstracts, review of articles in journals, royalties received for publishing book/s, commercialized outcome of research at individual level and delivery of expert lectures is permitted to be retained in full by the contributing faculty or research scientist.

19 **Liability** In case any legal dispute arises between the Consultant(s) and the sponsor (client) such that the Consultant (s) are in any way, held responsible to make good the losses incurred by the sponsor, such liability will be restricted to a maximum limit as follows:
Maximum Liability = (total amount charged for project) – (expenditure on the project)
It is in the interest of the Consultant(s) to bring this fact to the notice of the sponsors.

20 Arbitration In the event of any dispute or difference at any time arising between the parties relating to Consultancy project or any other clause(s) or any content and liabilities of the parties or other matters specified there in or with reference to anything arising out of the Consultancy or otherwise in relation to the terms, whether during the Consultancy or thereafter, such disputes or differences shall be endeavored to be resolved by mutual negotiations, between investigator(s) and said party. If, however, such negotiations are in-fructuous, the disputes should be finally settled through Arbitration and Conciliation Act 1996 by three arbitrators appointed in accordance with the said Act. Arbitrators shall give reasoned & speaking award.

21 Disagreements/Disputes Any disagreement within the University and concerned party arising at any stage of a Consultancy project will be resolved in consultation with Director (R& D) to ensure an expeditious removal of bottlenecks and smooth functioning of the project. In case of any dispute arising at any stage of consultancy project between Investigator (s) and the sponsor(s), the investigator(s) will be responsible for settlement of the dispute. All legal action will be subject to jurisdiction at Civil courts at Alibag / High Court at Mumbai.

22 Publications of Results PI will have the right to publish the work carried out by him unless the sponsors have an agreement under which their prior permission is required. Such agreement may be done a priori by both the parties concerned.

23 IPR Protections Consultancy work which can result into potential IPR and proceedings thereafter shall be the joint right of University and concerned party. The work can be registered in the individual's name; however, rights (as agreed up on) shall deemed be reserved with the University. Any patent filed for IPR through consultancy project shall be deposited with the office Dean (R & D).

Dr. Babasaheb Ambedkar Technological University, Lonere

Proposal for Consultancy or Testing Work in Department of ----------- Engineering

Proposal Number assigned by Dean (R&D):   Date:

Consultancy (Type I)   ☐   Material Testing (Type II)   ☐

Title of the Work:

Client Name and Address:

Request Reference from Client: Request Letter shall be enclosed herewith the proposal

Description of Consultancy Work	Amount		Total
	Consultancy Charges:		
	Taxes (if any)		

Declaration:

Contents of consultancy report /drawings will be used for benefit of the client organization. It will be stated in consultancy report /drawings that DBATU / its faculty shall be responsible to the scope limited as per DBATU Consultancy Rules for consequences of implementation of results therein. PI (name) will carry out necessary further professional correspondence and certification activities related to services to be provided to client.

Name/s and signature/s of consultant/s group (if any)

<div align="right">Principal Investigator</div>

Recommendation by **Department Committee** (Name and Signature)

(1) Faculty -1   (2) Faculty -1   (3) Faculty -1

Approval limited to the case of consultancy charges ≤ ` 1.0 Lakh
In case of higher charges, proposal is hereby forwarded for approval of **Dean (R&D)**

<div align="right">Signature and Seal of Head of Department</div>

Approval limited to the case of consultancy ≤ ` 3.0 Lakh
In case of higher charges, proposal is hereby forwarded for approval of **Hon. Vice Chancellor**

<div align="right">Signature and Seal of Dean (R&D)</div>

Submitted to Hon. Vice Chancellor with request for approval to submission as above

<div align="center">Hon. Vice Chancellor</div>