



DELHI TECHNOLOGICAL UNIVERSITY

MINUTES

of

32nd Meeting

ACADEMIC COUNCIL

Date : 18.05.2022

Time : 11:30 A.M.

**Venue : Through Video Conferencing
(Online)**

DTU Campus, Shahbad Daulatpur, Bawana Road, Delhi-110042

INDEX

Item No.	Description	Page No.
Agenda 32.1	Opening Remarks by the Chairperson.	2 - 3
Agenda 32.2	Confirmation of the minutes of the 31 st meeting of Academic Council held on 03.12.2021.	3
Agenda 32.3	Action taken report on the decisions taken in the 31 st meeting of the Academic Council.	4 - 7
Agenda 32.4	Approval of Seat Matrix for the Academic Year 2022-23 in respect of undergraduate programmes.	8 - 12
Agenda 32.5	Approval of criteria for Admissions to Undergraduate Programs for Academic Year 2022-23.	13
Agenda 32.6	Approval of guidelines regarding Award of Medals to DTU students during Convocation of the University.	14 - 15
Agenda 32.7	Approval of Academic Calendar for all UG/PG/Ph.D programs (Odd Semester) for Academic Year 2022-23.	16
Agenda 32.8	To consider admissions made in Ph.D programme for the session starting from January 2022.	17 - 19
Agenda 32.9	Formal registration of Ph.D. Students upon successful completion of course work and comprehensive examinations and approval of research Plan by respective DRCs.	20 - 23
Agenda 32.10	Cancellation/Withdrawal of admission from December 2021 to April 2022 from Ph.D. programme.	24
Agenda 32.11	Approval for changes in Research Methodology (SM-901) and Research Publication & Ethics (SM-903) courses for Ph.D. Research Scholar(s).	25

Agenda 32.12	Approval for revision of syllabi of M.Sc. (Mathematics).	26
Agenda 32.13	Approval for revision of M. Tech. Admission procedure 2022-23.	27
Agenda 32.14	Approval for introduction of additional clause for continuation of DTU Ph.D. fellowship beyond 3 years.	28
Agenda 32.15	Approval for minor revision in scheme and syllabus of M.Sc. Chemistry.	29
Agenda 32.16	Approval for changes in Comprehensive Examination for Ph.D. students.	30 - 31
Agenda 32.17	Approval for minor modifications in Ph.D. Admission Criteria for the Department of Civil Engineering.	32
Agenda 32.18	Approval for enhancement of intake in M.Tech (Computer Science and Engineering).	33
Agenda 32.19	Approval for change of nomenclature of B.Tech (Computer Engineering) to B.Tech (Computer Science and Engineering).	34
Agenda 32.20	To consider and approve the proposals regarding BBA-IEV program in University School of Management & Entrepreneurship (USME).	35 - 37
Agenda 32.21	To consider recommendations of the Committee constituted to audit the question papers of all programmes.	38 - 39
Agenda 32.22	Approval for two courses of B.Tech (Continuing Education) to be kept in abeyance.	40
Agenda 32.23	Implementation of Regulation R.1 (B).16 (ii) of the Ordinance of UG and PG programmes.	41
Agenda 32.24	Approval for Seat Matrix for Ph.D. admission in August 2022.	42
Agenda 32.25	Approval for modification in the seat matrix for admission brochure for International students for academic Year 2022-2023.	43 - 45

Agenda 32.26	Approval for seat matrix for MBA (Regular) and MBA (Executive) admission 2022-24 in Delhi School of Management..	46
Agenda 32.27	Approval for seat matrix for MBA admission 2022-24 in University School of Management (USME).	47
Agenda 32.28	Approval for revised syllabus of MBA 2 nd year for the batch 2021-23 onwards in Delhi School of Management.	48
Agenda 32.29	Proposal for 1-year internship for M.Tech final year students.	49 - 50
Agenda 32.30	Approval for Admission Brochures for the academic year 2022-23 for all UG/PG/Ph.D programmes.	51
Agenda 32.31	Mandatory Publication Requirement for Award of PhD Degree – Disciplines of Management, Social Sciences and Economics, Innovation Entrepreneurship and Venture Development and Humanities (Including English).	51 - 53
Agenda 32.32	To approve the scheme and syllabus of Ph.D. coursework papers offered by Department of Applied Physics.	54 - 55
Agenda 32.33	Approval for revision of syllabus of EC 402 (Wireless Communication), Department of ECE.	56
Agenda 32.34	Approval for revision of syllabus of M.Tech (SPDD), Research Methodology and Report Writing, Department of ECE.	56
Agenda 32.35	Approval for introduction of new M.Tech Program in Communication Systems Specialization.	57
Agenda 32.36	Matter for information :	57
Agenda 32.37	Any other item with the permission of the Chair.	57
	ANNEXURES	1 - 23



DELHI TECHNOLOGICAL UNIVERSITY

Established under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

BAWANA ROAD, SHAHBAD DAULATPUR, DELHI-110042

No. F.DTU/Org/AC/Meeting/01(1)/10/Vol-XIV/519

Dated: 26.05.2022

Minutes of the 32nd meeting of the Academic Council held online on 18.05.2022 at 11:30 A.M.

The following members were present:

1. Prof. J.P. Saini, Vice Chancellor, Delhi Technological University and Chairperson, Academic Council.
2. Prof. Neharika Vohra, Vice Chancellor, Delhi Skill & Entrepreneurship University, Dwarka, Delhi.
3. Prof. D.P. Goyal, Director, Indian Institute of Management, Shilong
4. Prof. Bhim Singh, Electrical Engineering Department, Indian Institute of Technology, Delhi
5. Prof. B.R. Chahar, Professor, Civil Engineering, Indian Institute of Technology, Delhi (All India Council for Technical Education nominee)
6. Sh. Rajesh Mathur, Advisor, Environmental Systems Research Institute (FICCI nominee).
7. Prof. Ashutosh Trivedi, Dean (Industrial Research Development)
8. Prof. S.C. Sharma, Dean Academic (PG)
9. Prof. Madhusudan Singh, Dean Academic (UG), Registrar and Member Secretary, Academic Council, DTU
10. Prof. Narendra Kumar, Dean, Student Discipline.
11. Prof. Rajesh Rohilla, Dean, Alumni Affairs and Head, T&P.
12. Prof. S. Indu, Dean (Student Welfare)
13. Prof. A.K. Srivastava, Dean (Outreach & Extension Activities)
14. Prof. Vishal Verma, Dean, International Affairs
15. Prof. S.K. Singh, Head, Environmental Engineering Department
16. Prof. V.K. Minocha, Head, Civil Engineering Department
17. Prof. S. K. Garg, Head, Mechanical Engineering Department
18. Prof. Uma Nangia, Head, Electrical Engineering Department
19. Prof. Rinku Sharma, Head, Applied Physics Department
20. Prof. S.G. Warkar, Head, Applied Chemistry Department
21. Prof. Kapil Sharma, Head, Department of Information Technology
22. Prof. Vinod Kumar, Head, Computer Science & Engineering Deptt.
23. Prof. Ruchika Malhotra, Head, Software Engineering Department
24. Prof. N. S. Raghava, Head, Electronics & Communication Engineering Department
25. Prof. Nand Kumar, Head, Department of Humanities
26. Prof. Pravir Kumar, Head, Department of Bio-Technology
27. Prof. Ranganath M. S., Head, Department of Design
28. Prof. S. Sivaprasad Kumar, Head, Applied Mathematics Department

29. Dr. Archana Singh, Head, Delhi School of Management
30. Prof. Naokant Deo, Head, B.Tech (Continuing Education)
31. Prof. Amit Mookerjee, Head, University School of Management and Entrepreneurship (USME)
32. Sh. Kamal Pathak, Controller of Examinations
33. Prof. Pragati Kumar, Professor, Electrical Engineering Department
34. Prof. Reeta Wattal, Professor, Mechanical Engineering Department
35. Sh. Rajesh Birok, Associate Professor, Electronics and Communication Engineering Department
36. Dr. M. Jayasimhadri, Assistant Professor, Applied Physics Department
37. Ms. Divya Narayan, Head, Computer Centre.

Following persons were invited to attend the meeting as special invitee:

1. Dr. Girish Kumar, Chief Executive Officer, DTU-Innovation and Incubation Foundation
2. Sh. R.K. Shukla, Librarian
3. Sh. D.P. Dwivedi, Consultant, Finance & Planning
4. Prof. Rishu Chaujar, Associate Dean (PG)

Agenda 32.1 : Opening Remarks by the Chairperson.

Vice Chancellor welcomed all the members of the Academic Council in its 32nd meeting held online mode. He informed that B. Tech Admissions-2021 completed in December 2021 and 2647 students were admitted in different B. Tech. programs. The University opened w.e.f. 07.02.2022 in offline mode and all classes are being held in physical mode now. In addition, next session of the University will start from 1st August 2022 for all programs in physical mode.

Delhi Technological University ranked second under the category of University and deemed to be University (Govt. and Govt. Aided Technical University) in Atal Ranking of Institutions on Innovation Achievements (ARIIA), 2021 announced by Ministry of Education, Govt. of India.

The 5th Research Excellence award was organised on 3rd March, 2022 and 304 SCIE index research publication were published by the University. A total no. of 373 research work awarded with cash prize and citation and University has spent Rs. 1.39 Cr. on these awards.

An NBA expert team visited the University for the accreditation of B.Tech (Electronics and Communication Engineering), M.Tech (Production Engineering) and MBA programmes during 25-27 Feb, 2022. The NBA expert team further visited the University during 04-06 March, 2022 for accreditation of M.Tech (Hydraulics and Water Resource). Hence, total 12 UG/PG programs of University are already NBA accredited.

The placement in the University has been excellent like previous years. As on 15.05.2022, 360 companies visited the campus and made 2337 offers to 1897 students. The highest International CTC offer was 1.12 crores and domestic CTC offer was 64 Lakhs. In all, 373 offers were of 22 Lakhs and above. The percentage of students got campus offer were 75.76 in B.Tech, 67% in M.Tech and 58% in MBA.

Vice Chancellor further informed the members that 77 companies visited the University and offered internship to 508 students

Agenda 32.2 : Confirmation of the minutes of the 31st meeting of Academic Council held on 03.12.2021.

The minutes of the 31st meeting of Academic Council held on 03.12.2021, were circulated among all the members vide forwarding no. F.DTU/ORG/AC/Meeting/01(1)/2010/Vol-XIV/1814-35 dated 09.12.2021.

No comments were received from any of the members.

Decision : The Academic Council confirmed the minutes of 31st meeting of the Academic Council.

Agenda 31.3 : Action taken report on the decisions taken in the 31st meeting of the Academic Council.

Action Taken Report on the decisions taken in the 31st meeting of the Academic Council held on 03.12.2021 was presented before the Council as below:

S. No.	Agenda Item	Decision	Action Taken by Council Branch	Compliance Report
31.1	Opening Remarks by the Chairperson.	Points mentioned are taken on record.	Noted.	Matter of record.
31.2	Confirmation of the minutes of the 30 th meeting of Academic Council held on 22.09.2021.	The Academic Council confirmed the minutes of 30 th meeting of the Academic Council.	Noted.	Matter of record.
31.3	Action taken report on the decisions taken in the 30 th meeting of the Academic Council.	The Academic Council took the action taken report on record.	Noted.	Matter of record.
31.4	To consider the proposal of conferment of degrees on the students who have successfully completed the requirements prescribed under the ordinances of the University.	The Academic Council considered and recommended the proposal of conferment of degrees on the students who have successfully completed the requirements to the Board of Management and also authorised the Vice chancellor to include candidates who become eligible for conferment of degree in due course.	Decision conveyed to the concerned.	Degrees have been conferred in 8 th Convocation held on 24.12.2021.
31.5	Approval of Academic Calendar for UG Programs (B. Tech./ BA(Eco)H/ BBA Programs) : Odd semester (Academic Year 2021-22) and Academic Calendar for Even Semester (Academic Year-2021-22) for 2nd /3rd /4th year UG and PG Programs & B. Des. 2nd semester.	The Academic Council considered and approved the Academic Calendars for UG Programs (B. Tech./ BA(Eco)H/ BBA Programs) : Odd semester (Academic Year 2021-22) and Academic Calendar for Even Semester (Academic Year-2021-22) for 2nd /3rd /4th year UG and PG Programs & B. Des 2 nd semester.	Decision conveyed to Dean, Academic (UG) vide letter no. 2004 dated 22.12.2021.	Notified vide letter no. 105(641)DTU/ Acad-UG/2018-19/11979-87 dated 15.12.2021.
31.6	To consider the formal registration to following Ph.D. Students upon successful completion of course work and	The Academic Council considered and approved formal registration of 31 candidates and confirm their	Decision conveyed to Dean, Academic (PG) vide letter	Registration letters have been issued to all concerned students.

	comprehensive examinations and approval of research Plan by respective DRCs.	candidature for Ph.D. program.	no. 2005 dated 22.12.2021.	
31.7	Approval for Admission Brochure for the Academic session: January 2022 for Ph.D programme.	The Academic Council considered and ratified Admission Brochure for the Academic session: January 2022 for Ph.D programme.	Decision conveyed to Dean, Academic (PG) vide letter no. 2006 dated 22.12.2021.	Brochure has been printed and circulated to all concerned.
31.8	Approval for admissions made in M.Tech (Data Science) and M.Tech (Power Systems) programmes for the session 2021-22.	The Academic Council considered and approved admissions in M.Tech programme for the session 2021-22.	Decision conveyed to Dean, Academic (PG) vide letter no. 2007 dated 22.12.2021.	Roll numbers have been issued to the admitted students.
31.9	To consider and approve admissions made in Master of Business Administration programme for the session 2021-22 in DSM and USME.	The Academic Council approved admissions made in MBA programme in DSM and admissions in MBA, MBA-FBE and MBA-IEV programmes in USME for the session 2021-22.	Decision conveyed to Head, USME vide letter no. 2008 dated 22.12.2021.	Roll numbers have been issued to the admitted students.
31.10	Approval for Academic Calendar 2021-22 for the Master of Technology in Data Science in Department of Software Engineering.	The Academic Council considered and ratified the Academic Calendar 2021-22 for the Master of Technology in Data Science in Department of Software Engineering.	Decision conveyed to HOD, Software Engineering vide letter no. 2009 dated 22.12.2021.	Academic Calendar has been circulated and uploaded on University Website.
31.11	Cancellation/Withdrawal of admission during October to November 2021 from Ph.D. programme.	The Academic Council considered and approved the cancellation of admission of above mentioned one candidate.	Decision conveyed to Dean, Academic (PG) vide letter no. 2010 dated 22.12.2021.	Letters have been issued to all concerned.
31.12	Approval for Cancellation/Withdrawal of admission from M.Tech. programmes for the academic year 2021-22.	The Academic Council considered and approved the Cancellation/ Withdrawal of admission from M.Tech. programmes for the academic year 2021-22. The Chairperson stressed upon the need to review the withdrawal policy of students by the same committee as constituted for vacant seats in the various PG programmes vide item no. 30.10 in the last meeting.	Decision conveyed to Dean, Academic (PG) vide letter no. 2011 dated 22.12.2021.	Letters have been issued to all concerned.



31.13	Approval for Cancellation/Withdrawal of admission from M. Des. programmes for the academic year 2021-22.	The Academic Council considered and approved the Cancellation/ Withdrawal of admission from M. Des. programme for the academic year 2021-22.	Decision conveyed to HOD, Deptt. of Design vide letter no. 2012 dated 22.12.2021.	Letters have been issued to all concerned.
31.14	Approval for Cancellation/Withdrawal of admission from M. Sc. programmes for the academic year 2021-22.	The Academic Council considered and approved the Cancellation/ Withdrawal of admission from M. Sc. programmes for the academic year 2021-22.	Decision conveyed to Dean, Academic (PG) vide letter no. 2013 dated 22.12.2021.	Letters have been issued to all concerned.
31.15	Approval for Cancellation/ Withdrawal of admission from Executive MBA programme for the academic year 2021-22.	The Academic Council considered and approved the Cancellation/ Withdrawal of admission from Executive MBA programme for the academic year 2021-22.	Decision conveyed to HOD, DSM vide letter no. 2014 dated 22.12.2021.	Letters have been issued to all concerned.
31.16	Approval for Restructuring and enriching the basket of elective courses under different Minors being offered by Department of Applied Physics.	The Academic Council considered and approved for Restructuring and enriching the basket of elective courses under different Minors being offered by Department of Applied Physics.	Decision conveyed to HOD, Applied Physics vide letter no. 2016 dated 22.12.2021.	Implemented.
31.17	Approval for introducing new elective courses in the department of Electronics and Communication Engineering.	The Academic Council considered and deferred the agenda. It was advised to place the matter again in the next meeting after consulting the concerned departments who are offering similar courses.	Decision conveyed to HOD, ECE vide letter no. 2017 dated 22.12.2021.	HOD, ECE informed that there is no need to introduce new electives as other departments has already floated.
31.18	Matter for Ratification : (i) Enrolment of students of 2 nd , 3 rd and 4 th year B.Tech students in a Compulsory Audit Course (non-credit course) on Community Engagement (Mentoring School Students).	The Academic Council ratified the above action taken of the University.	Decision conveyed to Dean (O&EA) vide letter no. 2018 dated 22.12.2021.	Matter of record.
31.19	Any other item with the permission of the Chair.	The Academic Council approved the proposed remuneration amount of Rs. 3000 for conducting Minor Project Evaluation/ Practical Examinations.		Notification issued vide no. F.6(73)/Exam Cell/Rate Revision/7525 dated 05.01.2022.

S.A. J1.20	Approval for extension of time span to old students to complete their B.Tech degree.	The Academic Council considered and approved extension of time span to the students of old scheme to complete their B.Tech degree in one more chance of Odd and Even semester. It was also decided to engage a mentor to each student and examination fee will be charged at the rate of Rs. 5000/- per paper.	Decision conveyed to Dean, Academic (UG) vide letter no. 2019 dated 22.12.2021.	Extension of time span has been given to all concerned students of old scheme to complete their B.Tech degree.
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Decision : The Academic Council took the Action Taken Report on record.



Agenda 32.4 : Approval of Seat Matrix for the Academic Year 2022-23 in respect of undergraduate programmes..

The seat matrix for various undergraduate programs of the University for the academic year 2022-23 for approval of the Academic Council is as under:-

(i) B Tech 2022-23

Branch □	ECE	COE	ME	EE	PIE	CE	ENE	CHE	IT	BT	SE	MAME	EP	MCE	Total
Category↓	ECE	COE	ME	EE	PIE	CE	ENE	CHE	IT	BT	SE	MAME	EP	MCE	Total
EWGND	18	37	24	23	5	12	6	6	13	5	13	5	9	13	189
EWCWD	1	2	1	1	0	1	0	1	1	0	1	1	0	1	11
EWPPD	1	2	1	1	1	0	1	0	1	1	1	0	1	1	12
GNGND	74	149	94	94	22	47	24	23	56	24	56	23	36	56	778
GNCWD	4	7	5	5	2	2	1	1	3	1	3	2	2	3	41
GNPDD	4	8	4	5	1	3	1	2	3	2	3	1	2	3	42
SCGND	27	55	34	34	9	17	9	8	21	8	21	8	14	21	286
SCCWD	2	3	2	2	0	1	1	0	1	1	1	0	1	2	17
SCPDD	1	3	2	2	1	1	0	1	2	0	1	1	0	1	16
STGND	14	28	17	17	4	8	4	5	10	5	11	4	6	10	143
STCWD	1	2	1	1	0	0	0	0	0	0	1	1	0	1	8
STPDD	1	1	1	1	1	1	0	0	1	0	0	0	1	0	8
OBGND	50	100	62	62	16	32	15	15	37	15	37	15	24	37	517
OBCWD	3	6	4	3	1	1	1	1	2	1	2	1	1	2	29
OBPDD	3	5	3	3	1	2	1	1	2	1	2	1	1	2	28
EWGNO	3	6	4	4	1	2	1	1	2	1	2	1	2	3	33
EWCWO	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
EWPDO	0	1	0	1	0	0	0	0	0	0	1	0	0	0	3
GNGNO	13	27	17	16	5	8	4	4	10	4	10	4	5	10	137
GNCWO	1	2	1	1	0	0	0	0	0	0	0	0	1	1	7
GNPDO	1	1	1	1	0	1	0	0	1	0	1	1	0	0	8
SCGNO	5	9	6	6	1	3	2	2	3	2	4	2	3	3	51
SCCWO	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3

SCPDO	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
STGNO	2	4	3	3	1	2	1	1	2	1	2	1	1	1	25
STCWO	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2
STPDO	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
OBGNO	9	17	11	12	3	5	2	3	6	3	6	3	4	7	91
OBCWO	0	1	1	0	0	1	0	0	1	0	1	0	0	0	5
OBPDO	0	1	0	1	0	0	1	0	0	0	0	0	1	1	5
Total Intake	240	480	300	300	75	150	75	75	180	75	180	75	115	180	2500
GNSGD*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
GNTPO*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
Grand Total	242	482	302	302	77	152	77	77	182	77	182	77	117	182	2528
KM*															1
TOTAL															2529

(ii) **B.Des (2022-23)**

Category	Delhi			Outside Delhi			
		CW	PD		CW	PD	Total
GEN	39	2	1	7	0	0	49
OBC	25	1	1	5	0	0	32
SC	14	0	1	3	0	0	18
ST	08	0	0	1	0	0	9
EWS	10	0	0	2	0	0	12
Total	96	03	03	18	0	0	120
SG	1	0	0	0	0	0	1
TP	1	0	0	0	0	0	1

KM	1	0	0	0	0	0	1
Grand Total							123

(iii) **B.Tech (Continuing Education) 2022-23**

Category		Civil	Electrical	Total
General	GEN	23	23	48
	GEN-PWD	1	1	
EWS	EWS	6	5	12
	EWS-PWD		1	
SC	SC	8	9	18
	SC-PWD	1		
ST	ST	4	5	10
	ST-PWD		1	
OBC	OBC	16	15	32
	OBC-PWD	1		
Total		60	60	120



(iv) **BA(H) Economics & BBA for AY 2022-23**

Program	BA (H) Eco	BBA
Category	No. of Seats	No of Seats
GNGND	57	57
GNCWD	3	3
GNPDD	2	2
SCGND	20	20
SCCWD	1	1
SCPDD	1	1
STGND	12	12
STCWD	0	0
STPDD	0	0
OBGND	35	35
OBCWD	2	2
OBPDD	2	2
EWGND	18	18
EWKWD	0	0
EWKDD	0	0
GNGNO	10	10
GNCWO	0	0
GNPDO	1	1
SCGNO	4	4
SCCWO	0	0
SCPDO	0	0
STGNO	2	2
STCWO	0	0
STPDO	0	0
OBGNO	7	7
OBCWO	0	0
OBPDO	0	0
EWGNO	3	3
EWKWO	0	0
EWKDO	0	0
TOTAL	180	180
Kashmiri Migrant* (KM)	1	1
Single Girl Child*	1	1
Total	182	182

*Supernumerary

Category	Code
General	GN
Scheduled Caste	SC
Scheduled Tribe	ST
Other Backward Classes	OB
Economically Weaker Section	EW

Sub-Category	Code(SS)
No Subcategory	GN
Differently Abled Persons (PWD)	PD
Defence Personnel	CW
Kashmiri Migrant	KM
Region	Code (R)
Delhi	D
Outside Delhi	O

Decision : The Academic Council considered the agenda and made following changes:

1. In future, this being the routine item, may be placed for information of the Academic Council.
2. Since there has been no admission in the Quota of 'Toppers of the Board Examinations' the said quota may be abolished from the above seat matrix.
3. Academic Council authorized Vice Chancellor to make changes in the above seat matrix, if needed.

With the above changes, Academic Council considered and approved the Seat Matrix of various Undergraduate programmes of the University as proposed in the agenda.

Agenda 32.5 : Approval of criteria for Admissions to Undergraduate Programs for Academic Year 2022-23.

It was submitted to the Academic Council that Directorate of Higher Education vide their letter No DHE-9(73)/PIg/Miscellaneous/2021-22/1986/96 dated 18 April, 2022 has sought comments on implementation of Common University Entrance Test (CUET) from academic session 2022-23 onwards.

Accordingly, a meeting of University Admission Committee was held on 26 April, 2022 to discuss the issue. It was decided that during academic session 2022-23, admission to various professional undergraduate courses offered by Delhi Technological University will be done through National level exams like JEE, UCEED. For other allied/professional programs such as B.A. (Hons.) Economics and BBA courses, admissions for academic year 2022-2023 will be made on the basis of class XII marks.

Decision : The Academic Council considered and approved the criteria for Admissions to Undergraduate Programs for Academic Year 2022-23. It should be communicated to the Government accordingly.



Agenda 32.6 : Approval of guidelines regarding Award of Medals to DTU students during Convocation of the University.

It was submitted to the Academic Council that the University has framed following guidelines for award of Gold Medals to DTU students during Convocation of the University: -

1. Chancellor's Gold Medals- one each shall be awarded to students who are declared overall toppers among all the UG and PG degree programs respectively.
2. Vice Chancellor's Gold Medals shall be awarded to students who are declared toppers among all the students passed in each UG and PG degree program.
3. Students of degree programs only shall be considered for award of Certificate of Merit & Gold Medals, subject to following conditions:
 - a. The student has passed all courses of the program within minimum time stipulated in scheme of study applicable to the program.
 - b. The student has passed each course of the program when it is offered first time during regular examination of the batch in which student was admitted. For M.Tech. Programs, the thesis of the Major Project must be submitted by the date as notified by the University.
 - c. The students who are admitted/migrated in second or subsequent years of the program shall not be considered for Certificate of Merit & Gold Medal.
4. Certificate of Merit and Gold Medal shall be awarded for only such programs of study in which minimum ten (10) students of the batch fulfill the conditions specified at clause (3) above.
5. For the dual degree program, the Certificate of Merit and Gold Medal shall be awarded for the second degree only.
6. CGPA /CPI shall be counted upto third decimal place for the purpose of award of Certificate of Merit & Gold Medal.
7. In accordance with aforesaid clauses, Certificate of Merit and Gold Medal will be awarded for each program to the topper to be decided as follows:
 - a. Student obtaining highest Cumulative Grade Point Average (CGPA) for credit based programs under grading system.

- b. Student obtaining highest Cumulative Performance Index (CPI) for credit based programs under CPI system.
8. In case of tie between two or more students of any program of study, following procedure shall be followed to break tie and decide topper of program for award of the Certificate of Merit and Gold Medal:
 - a. The student with highest CGPA after excluding the courses which do not have any Lecture component in the scheme of teaching will be the topper.
 - b. In case tie is not resolved by (a), then the student with highest CGPA after excluding the elective courses will be the topper.
 - c. In case tie is not resolved by (a) and (b) above, all such students shall be awarded Certificate of Merit and Gold Medal.
9. Gold Medals & Scholarships funded by various Individuals or Trusts etc. through creation of Endowment Fund shall be awarded as per criteria decided by the donor. In the absence of criteria by the donor, the competent authority shall decide the criteria for award of such Gold Medals & Scholarships.
10. The list of all UG & PG students to be awarded Certificate of Merit and Gold Medal shall be provided by the Controller of Examination to the Academic UG & Academic PG sections respectively for the approval of the Vice Chancellor.
11. Certificate of Merit & Gold Medals shall be awarded in the Convocation or any other function to be held after the completion of requirement for the award of the degree. If an awardee does not collect the Gold Medal within a period of one year from the convocation in which it is awarded, the same shall be deemed to have not been collected and may be reused by the University in subsequent years.
12. Notwithstanding anything stated in this guideline, for any unforeseen issues arising, and not covered by this guideline, or in the event of differences of interpretation, the Vice Chancellor may take a decision. The decision of the Vice Chancellor shall be final.
13. These guidelines shall come into the force with immediate effect.

Decision : The Academic Council considered and approved the Guidelines regarding Award of Medals to DTU students with following observations:

1. The proposed changes may be implemented w.e.f. to 2023-24 onwards.
2. No medals will be given to the B.Tech (Continuing Education) and M.Tech (Continuing Education) and MBA (Executive).

Agenda 32.7 : Approval of Academic Calendar for all UG/PG/Ph.D programs (Odd Semester) for Academic Year 2022-23.

It was submitted to the Academic Council that the Academic Calendar for all UG/PG/Ph.D programs (Odd Semester) for Academic Year 2022-23 is proposed as under for the approval of Academic Council: -

25.07.2022 (Monday) to 05.08.2022 (Friday)	Filling of online registration forms by all students for UG*- III, V and VII Semester PG: I & III semester Ph.D : Course work.
01.08.2022 (Monday)	Teaching starts for UG*: III, V and VII Semester courses (* Excluding B.Tech 3 rd Semester) PG: I & III Semester. PhD : Course work.
09.08.2022 (Tuesday)	Teaching starts for B.Tech 3 rd Semester students.
26.08.2022 (Friday)	Last date of registration of the course, addition/deletion of courses for all regular and Ex- students (except those students whose admission is confirmed subsequent to this date)
23.09.2022 (Friday)	Mid Term notification of shortage of attendance
MID Term Examination 26.09.2022 (Monday) to 01.10.2022 (Friday)	
18.11.2022(Friday)	Teaching ends, Display of sessional marks and shortage of attendance
END Term Theory & Practical Examination 21.11.2022 (Monday) onwards	
12.12.2022 (Monday)	Grade moderation & display of grades
Note : * Separate notification shall be issued for all 1 st semester students admitted after notification of this calendar.	

Decision : The Academic Council considered and approved the Academic Calendar for all UG/PG/Ph.D programs for (Odd Semester) Academic Year 2022-23.

Agenda 32.8 : To consider admissions made in Ph.D programme for the session starting from January 2022.

It was submitted to the Academic Council that 92 admissions have been made in Ph.D programme for the winter session January 2022. The list of 92 students who have been admitted in Ph.D programme is given as under:-

S. No.	Department	Roll No.	Full Name
1.	Applied Chemistry	2K21/PHDAC/501	Gunjan Varshney
2.	Applied Chemistry	2K21/PHDAC/502	Charu Gupta
3.	Applied Chemistry	2K21/PHDAC/503	Parul Yadav
4.	Applied Chemistry	2K21/PHDAC/504	Priyanka
5.	Applied Chemistry	2K21/PHDAC/505	Sarla Yadav
6.	Applied Chemistry	2K21/PHDAC/506	Yogesh Kumar
7.	Applied Chemistry	2K21/PHDCH/501	Shivangi Dwivedi
8.	Biotechnology	2K21/PHDBT/501	Isha Gupta
9.	Biotechnology	2K21/PHDBT/502	Kajal Sharma
10.	Biotechnology	2K21/PHDBT/503	Atika Dogra
11.	Design	2K21/PHDDDES/501	Awani Sankritya
12.	Design	2K21/PHDDDES/502	Utkarsh Chaudhri
13.	DSM	2K21/PHDDSM/501	Priyanka Goyal
14.	DSM	2K21/PHDDSM/502	Ranjana Deswal
15.	Humanities-Eco	2K21/PHDHUECO/501	Hari Om
16.	Humanities-Eco	2K21/PHDHUECO/502	Kirti Dhaka
17.	Mechanical Engg.	2K21/PHDME/501	Pratyay Choudhary
18.	Mechanical Engg.	2K21/PHDME/502	Mubina
19.	Mechanical Engg.	2K21/PHDME/503	Kapil Dev Pandey
20.	Mechanical Engg.	2K21/PHDME/504	Dhruv Kumar
21.	Mechanical Engg.	2K21/PHDME/505	Gaurav Mishra
22.	Mechanical Engg.	2K21/PHDME/506	Amit Sahu
23.	Mechanical Engg.	2K21/PHDME/507	Anisha
24.	Mechanical Engg.	2K21/PHDME/508	Prachee Srivastava
25.	Mechanical Engg.	2K21/PHDME/509	Tarun Sharma
26.	Mechanical Engg.	2K21/PHDME/510	Dilip Kumar
27.	Mechanical Engg.	2K21/PHDME/511	Pradeep Kumar
28.	Mechanical Engg.	2K21/PHDME/512	Priyanka Singh
29.	Mechanical Engg.	2K21/PHDME/513	Bhartendu Mani Tripathi
30.	Mechanical Engg.	2K21/PHDME/514	Pardeep
31.	Mechanical Engg.	2K21/PHDME/515	Pragya Mishra
32.	Electrical Engg.	2K21/PHDEE/501	Supriya Kaul
33.	Electrical Engg.	2K21/PHDEE/502	Arpana Singh
34.	Electrical Engg.	2K21/PHDEE/503	Taru Agarwal
35.	Electrical Engg.	2K21/PHDEE/504	Apoorva Choumal
36.	Electrical Engg.	2K21/PHDEE/505	Nabya
37.	Electrical Engg.	2K21/PHDEE/506	Abhishek Yadav

38.	Electrical Engg.	2K21/PHDEE/507	Ghanendra Kumar
39.	Electrical Engg.	2K21/PHDEE/508	Indra Jeet Pal
40.	Electrical Engg.	2K21/PHDEE/509	Deepak Kumar
41.	Electrical Engg.	2K21/PHDEE/510	Nupur Mittal
42.	Electrical Engg.	2K21/PHDEE/511	Ankit Dixit
43.	Electrical Engg.	2K21/PHDEE/512	Gaurav Srivastava
44.	Electrical Engg.	2K21/PHDEE/513	Lochan Varshney
45.	Electrical Engg.	2K21/PHDEE/514	Priyanka
46.	Information Technology	2K21/PHDIT/501	Mr. Vikas Sharma
47.	Information Technology	2K21/PHDIT/502	Ms. ASHI AGARWAL
48.	Information Technology	2K21/PHDIT/503	Tanvi Attri
49.	Information Technology	2K21/PHDIT/504	Anita Thakur
50.	Civil Engineering	2K21/PHDCE/501	Khyati Saggu
51.	Civil Engineering	2K21/PHDCE/502	Noopur Awasthi
52.	Civil Engineering	2K21/PHDCE/503	Preeti Pateriya
53.	Civil Engineering	2K21/PHDCE/504	Dyvavani Krishna K
54.	Civil Engineering	2K21/PHDCE/505	Tanu Kumar
55.	Civil Engineering	2K21/PHDCE/506	Sheetal Niranjana
56.	Civil Engineering	2K21/PHDCE/507	Payal Devi
57.	Civil Engineering	2K21/PHDCE/508	Amit Ram Ahirwar
58.	Civil Engineering	2K21/PHDCE/509	Sugam Jain
59.	Civil Engineering	2K21/PHDCE/510	Shikha Tyagi
60.	Civil Engineering	2K21/PHDCE/511	Hamid Noori
61.	Environment Engg.	2K21/PHDEN/501	Kulvendra Patel
62.	Environment Engg.	2K21/PHDEN/502	Ravi Pratap Singh Jadon
63.	ECE	2K21/PHDEC/501	Divya Arora Bhayana
64.	ECE	2K21/PHDEC/502	Lokesh Soni
65.	ECE	2K21/PHDEC/503	Yashika Chauhan
66.	ECE	2K21/PHDEC/504	Vikram Singh Kardam
67.	ECE	2K21/PHDEC/505	Sachin Dhariwal
68.	ECE	2K21/PHDEC/506	Bharti
69.	ECE	2K21/PHDEC/507	Shilpa Jain
70.	ECE	2K21/PHDEC/508	Ritika Sorot Sorot
71.	ECE	2K21/PHDEC/509	Nafeesh Ahmad
72.	ECE	2K21/PHDEC/510	Ishita Pathak
73.	CSE	2K21/PHDCO/501	Kainat Khan
74.	CSE	2K21/PHDCO/502	Fatima Ziya
75.	CSE	2K21/PHDCO/503	Disha Dua
76.	CSE	2K21/PHDCO/504	Diksha Kurchaniya
77.	CSE	2K21/PHDCO/505	Ashish Kumari
78.	Software Engg.	2K21/PHDCS/501	Jyoti Singh
79.	Software Engg.	2K21/PHDCS/502	Roshni Singh
80.	Software Engg.	2K21/PHDCS/503	Bhawna Jain
81.	Applied Mathematics	2K21/PHDAM/501	Suruchi Jain
82.	Applied Mathematics	2K21/PHDAM/502	Yogesh Bhardwaj
83.	Applied Mathematics	2K21/PHDAM/503	Akash Jain
84.	USME-IEV	2K21/PHDUIEV/501	Shubham Prajapati

85.	Applied Physics	2K21/PHDAP/501	Ayushi Lamba
86.	Applied Physics	2K21/PHDAP/502	Vertika Siwach
87.	Applied Physics	2K21/PHDAP/503	Shivani
88.	Applied Physics	2K21/PHDAP/504	Sunil Kumar
89.	Applied Physics	2K21/PHDAP/505	Vinay Kumar Yadav
90.	Applied Physics	2K21/PHDAP/506	Videsh Kumar
91.	Applied Physics	2K21/PHDAP/507	Kajal Verma
92.	Applied Physics	2K21/PHDAP/508	Shweta Yadav

Decision : The Academic Council considered and approved this agenda and advised that such routine items may be placed for information of the Academic Council in future.

Agenda 32.9 : Formal registration of Ph.D. Students upon successful completion of course work and comprehensive examinations and approval of research Plan by respective DRCs.

Dean Academic (PG) forwarded a list of following candidates to consider their registration for Ph.D. candidature upon successful completion of course work, comprehensive examinations and approval of Research Plan by respective DRCs. List of the candidates (department-wise) is placed below:

Department of Applied Chemistry

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Ravi Shankar	2K19/PHD/AC/06	Applied Chemistry	15.03.2022
2.	Ashwani Kumar Tiwari	2K20/PHD/CH/01	Applied Chemistry	15.03.2022
3.	Ritu Sharma	2K20/PHD/AC/503	Applied Chemistry	22.03.2022
4.	Manu	2K20/PHD/AC/01	Applied Chemistry	22.03.2022
5.	Priyanka Meena	2K19/PHD/AC/02	Applied Chemistry	24.03.2022
6.	Sweetie	2K20/PHD/AC/04	Applied Chemistry	19.04.2022

Department of Applied Mathematics

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Neha Punetha	2K20/PHD/AM/02	Applied Mathematics	20.01.2022
2.	Swati	2K19/PhD/AM/06	Applied Mathematics	25.11.2021

Department of Applied Physics

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Nikita Jain	2K18/PHD/AP/509	Applied Physics	17.11.2021
2.	Saroj Kumar Jha	2K18/PHD/AP/515	Applied Physics	17-11-2021
3.	Aneesha	2K19/PHD/AP/503	Applied Physics	17.01.2022
4.	Ramesh Kumar	2K19/PhD/AP/506	Applied Physics	27.01.2022
5.	Shilpa Rana	2K19/PHD/AP/08	Applied Physics	14.02.2022

Department of Biotechnology

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Shweta Gulia	2K20/PHD/BT/02	Biotechnology	11.11.2021
2.	Manjary Vyas	2K19/PHD/BT/01	Biotechnology	25.11.2021
3.	Meenakshi Dubey	2K18/PHD/BT/505	Biotechnology	24.12.2021
4.	Himanshi	2K19/PHD/BT/11	Biotechnology	17.12.2021
5.	Mehar Sahu	2K21/PHD/BT/03	Biotechnology	01.04.2022

Department of Computer Science and Engineering

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Shikha	2K19/PHD/CO/502	CSE	17.02.2022
2.	Anumukonda Naga Seshu Kumar	2K18/PHD/CO/507	CSE	03.02.2022
3.	Rahul Kumar	2K19/PHD/CO/08	CSE	03.02.2022
4.	Ankur	2K20/PHD/CO/507	CSE	25.02.2022
5.	Ruchi Goel	2K18/PHD/CO/18	CSE	17.02.2022

Department of Civil Engineering

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Jyoti Agarwal	2K20/PHD/CE/04	Civil Engineering	08.11.2021
2.	Vijay Kaushik	2K20/PHD/CE/01	Civil Engineering	28.01.2022
3.	Thaer M H Shomar	2K19/PHD/CE/16	Civil Engineering	08.02.2022
4.	Yakshansh Kumar	2K20/PHD/CE/502	Civil Engineering	09.02.2022
5.	Harshit Kumar Jayant	2K19/PHD/CE/04	Civil Engineering	03.03.2022
6.	Ankit Kumar	2K19/PHD/CE/502	Civil Engineering	10.03.2022
7.	Harish	2K18/PHD/CE/22	Civil Engineering	28.03.2022
8.	Ankita Sonkar	2K20/PHD/CE/507	Civil Engineering	27.04.2022
9.	Sarmistha Rudra Paul	2K20/PHD/CE/508	Civil Engineering	27.04.2022
10.	Dharmender Tiwari	2K19/PHD/CE/01	Civil Engineering	27.04.2022

Department of Design

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Yashika Kumar	2K19/PHD/DES/04	Design	14.12.2021
2.	Nekram Upadhyay	2K19/PHD/DES/03	Design	15.12.2021
3.	Shahid Ahmad	2K20/PHD/DES/02	Design	28.04.2022

Department of Electrical Engineering

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Ganesh Kumar Jaiswal	2K19/PHD/EE/16	Electrical Engineering	12.11.2021
2.	Abhishek Chaudhary	2K19/PHD/EE/504	Electrical Engineering	28.10.2021
3.	Kanchan Bala Rai	2K19/PHD/EE/503	Electrical Engineering	25.11.2021
4.	Kuldeep Kumar Swarnkar	2K19/PHD/EE/07	Electrical Engineering	15.12.2021
5.	Kishan Bhushan Sahay	2K18/PHD/EE/13	Electrical Engineering	03.11.2021
6.	Sukhbir	2K19/PHD/EE/10	Electrical Engineering	29.01.2022
7.	Shubham Gupta	2K19/PHD/EE/502	Electrical Engineering	17.01.2022

Department of Electronics & Communication Engineering

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Rahul Kumar	2K19/PHD/EC/503	ECE	11.10.2021
2.	Neetu Sharma	2K19/PHD/EC/25	ECE	25.06.2021
3.	Bhawanand Jha	2K19/PHD/EC/11	ECE	26.10.2021
4.	Kirti Dalal	2K20/PHD/EC/03	ECE	07.02.2022
5.	Dhruv Sharma	2K20/PHD/EC/02	ECE	04.03.2022
6.	Anupama	2K20/PHD/EC/08	ECE	07.03.2022
7.	Snehlata Yadav	2K19/PHD/EC/03	ECE	01.02.2022
8.	Priyanka Datta	2K18/PHD/EC/14	ECE	30.12.2020
9.	Amarendra Kumar Mishra	2K18/PHD/EC/502	ECE	10.02.2022
10.	Puja Priya	2K19/PHD/EC/502	ECE	04.02.2022
11.	Pratima Sharma	2K19/PHD/EC/508	ECE	16.02.2022
12.	Navnit Kumar	2K20/PHD/EC/07	ECE	14.03.2022
13.	Kavita	2K18/PHD/EC/504	ECE	16.02.2021
14.	Ravi	2K20/PHD/EC/12	ECE	20.04.2022

Department of Environmental Engineering

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Harshit Chawla	2K20/PHD/EN/02	Environment Engineering	15.02.2022
2.	Sonam Taneja	2K20/PHD/EN/04	Environment Engineering	15.02.2022
3.	Nibedita Verma	2K19/PHD/EN/501	Environment Engineering	08.02.2022
4.	Saurav Kumar Ambastha	2K15/PHD/EN/02	Environment Engineering	22.12.2017

Department of Humanities

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Rajesh Kumar	2K19/PHD/HUM/01	Humanities	29.11.2021
2.	Hariom Prakash Verma	2K18/PHD/HUM/501	Humanities	22.12.2021
3.	Aparna Gupta	2K18/PHD/HUM/02	Humanities	21.12.2021
4.	Akanksha Singh	2K19/PHD/HUM/504	Humanities	29.01.2022
5.	Shweta Kumari	2K19/PHD/HUM/503	Humanities	31.02.2022

Department of Information Technology

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Allam Venkata Siva Swetha	2K19/PHD/IT/03	Information Technology	27.12.2021
2.	Parminder Pal Singh Bedi	2K18/PHD/IT/06	Information Technology	27.12.2021
3.	Deepak Dagar	2K20/PHD/IT/03	Information Technology	21.10.2021

Department of Mechanical Engineering

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Suraj Bhan	2K18/PHD/ME/05	Mechanical Engineering	26.10.2021
2.	Anant Bhardwaj	2K19/PHD/ME/501	Mechanical Engineering	01.11.2021
3.	Ankit Mani Tripathi	2K19/PHD/ME/503	Mechanical Engineering	18.11.2021
4.	Rahul Sharma	2K18/PHD/ME/525	Mechanical Engineering	21.09.2021
5.	Shubhangi Chourasia	2K19/PHD/ME/23	Mechanical Engineering	13.10.2021
6.	Prashant Vashishtha	2K18/PHD/ME/526	Mechanical Engineering	31.12.2021
7.	Ajay Kant Dubey	2K19/PHD/ME/11	Mechanical Engineering	11.01.2022
8.	Mohit Vishnoi	2K18/PHD/ME/517	Mechanical Engineering	29.03.2022
9.	Praveen Kumar Dwivedi	2K18/PHD/ME/25	Mechanical Engineering	03.03.2022

Department of Delhi School of Management

Sr. No.	Name of the Candidate	Roll No	Name of the Department	Date of the SRC
1.	Kamini Mishra	2K19/PHD/DSM/501	DSM	23.12.2021
2.	Himanshu Ahuja	2K20/PHD/DSM/02	DSM	01.04.2022

Decision : The Academic Council considered and approved this agenda and advised that such routine items may be placed for information of the Academic Council in future.

Agenda 32.10 : Cancellation/Withdrawal of admission from December 2021 to April 2022 from Ph.D. programme.

It was submitted to the Academic Council that the certain admissions have withdrawn from Ph.D. programme during December 2021 to April 2022. The list of the students who cancelled/withdrawal their registrations is as under:-

S. No.	Roll No.	Full Name	Department	w.e.f.
1.	2K18/PHDAC/502	Arun Kumar	Applied Chemistry	24.03.2022
2.	2K20/PHDAM/502	Deeksha Tomer	Applied Mathematics	19.06.2021
3.	2k17/PHDAM/11	Chhatra Pal	Applied Mathematics	22.12.2021
4.	2K21/PHDAM/503	Akash Jain	Applied Mathematics	08.03.2022
5.	2K18/PHD/AP/08	Monika	Applied Physics	02.08.2021
6.	2k19/PHD/CE/11	Bhupinder Singh Parmer	Civil Engineering	01.12.2021
7.	2K19/PhD/CE/06	Nikhil Kumar	Civil Engineering	01.12.2021
8.	2K20/PHDCE/503	Vivek Yadav	Civil Engineering	06.08.2021
9.	2K20/PHD/CE/510	Rahul Kumar	Civil Engineering	27.10.2021
10.	2K18/PHDCE/05	Devesh Tyagi	Civil Engineering	18.02.2022
11.	2K19/PHDCE/503	Nisha Yadav	Civil Engineering	18.02.2022
12.	2K21/PHDDSM/01	Pragati Yadav	DSM	25.10.2021
13.	2K21/PHDDSM/04	Vartika Rajput	DSM	01.04.2022
14.	2K12/PHD/EE/01	Masood Anzar	Electrical Engineering	24.11.2021
15.	2K19/PHD/EE/04	Kamail Hasan Naqvi	Electrical Engineering	24.11.2021
16.	2k19/PHDEC/510	Deepak Narang,	ECE	14.12.2021
17.	2K21/PHDEC/17	Mayank Kumar	ECE	12.04.2022
18.	2K21/PHDEC/11	Anshika Mall	ECE	14.03.2022
19.	2K20/PHD/EN/03	Anshika	Environment Engg.	02.03.2022
20.	2K21/PHD/HUECO/01	Nidhi Sehrawat	Humanities	20.12.2021
21.	2K21/PHDHUECO/502	Kirti Dhaka	Humanities	15.03.2022
22.	2K21/PHD/IT/06	Avantika Sahu	Information Technology	22.12.2021
23.	2K21/PHDIT/503	Tanvi Attri	Information Technology	24.02.2022
24.	2K20/PHDME/504	Aseem Dubey	Mechanical Engineering	30.07.2021
25.	2K19/PHDME/06	Prem Pratap Singh Jadon	Mechanical Engg.	21.03.2022
26.	2K18/PHDUSME/504	Shivangi Gupta	USME	14.09.2021
27.	2K20/PHD/UECO/506	Surabhi Soumya	USME	31.01.2022

Decision : The Academic Council considered and approved this agenda and advised that such routine items may be placed for information of the Academic Council in future.

Agenda 32.11 : Approval for changes in Research Methodology (SM-901) and Research Publication & Ethics (SM-903) courses for Ph.D. Research Scholar(s).

It was submitted to the Academic Council that the some changes are required in *Research Methodology (SM-901)* and *Research Publication & Ethics (SM-903)* courses for Ph.D. research scholars as per UGC norms as under:-

1. As per the UGC letter No. D.O. No. F.1-12018(Journal/CARE) of December, 2019, the UGC in its 543rd meeting held on 09/08/2019 approved two credit courses for awareness about publication ethics and publication misconducts entitled "Research and Publication Ethics(RPE)" to be made compulsory for all Ph.D. students for pre-registration course work. The DTU has already included the same in the Course work for DTU R/Scholars vide subject code SM-903 (Research and Publication Ethics (RPE)). However, it is proposed that the said course shall be made compulsory elective without contributing towards any credit for the coursework.
2. It was also proposed that that utmost two (02) faculty members shall be involved in the Teaching of SM-901 (Research Methodology).

Decision : The Academic Council considered and approved the changes in **Research Methodology (SM-901) and Research Publication & Ethics (SM-903) courses for Ph.D. Research Scholar(s)** with following observations:-

1. SM-903 Research Publication & Ethics shall be a compulsory audit course for all Ph.D students.
2. The credit of this course will not be counted but students have to secure at least pass grade in this subject.



Agenda 32.12 : Approval for revision of syllabi of M.Sc. (Mathematics).

It was submitted to the Academic Council that the Department of Mathematics is seeking minor revision of syllabi of the following subjects of M.Sc. Mathematics:-

1. Abstract Algebra-MSMA-101
2. Complex Analysis-MSMA-102
3. Partial Differential Equation-MSMA-104
4. Topology-MSMA-106
5. Discrete Mathematics-MSMA-107
6. Linear Algebra-MSMA-108

Minutes of the BOS meeting of the Department of Applied Mathematics & revised syllabi were annexed in the Agenda note.

Decision : The Academic Council considered and approved the recommendations of the Board of Studies for revision of syllabi of M.Sc. (Mathematics). This will be effective for M.Sc. 2nd year students. There will be no change in main content and credit.

Agenda 32.13 : Approval for revision of M. Tech. Admission procedure 2022-23.

It was submitted to the Academic Council that a standing committee was constituted to resolve the issues related to the upcoming M. Tech. Admission 2022-23.

The committee recommended the following points:-

1. If admissions made in any M. Tech programme are less than $\frac{1}{3}$ of the total seats as approved by AICTE in the respective branch, then the branch will remain suspended for the respective Academic year.
2. In such a case i.e. where admissions made are less than $\frac{1}{3}$, the students have the provision to transfer their admission subject to their eligibility and availability of seats in the respective M. Tech. branch.
3. In case, the vacant seats are not available in the desired M. Tech. programme, 100% of the fee shall be refunded.
4. In order to calculate $\frac{1}{3}$ of the seats, the value would be rounded down i.e. if the approved seats as per AICTE is 25, then the $\frac{1}{3}$ value would be calculated as 8.33 which will be treated as 8.

Decision : The Academic Council considered and approved the recommendations of the Committee for revision of M. Tech. Admission procedure 2022-23.



Agenda 32.14 : Approval for introduction of additional clause for continuation of DTU Ph.D fellowship beyond 3 years.

It was submitted to the Academic Council that at present DTU awards fellowship to the Ph.D. scholars admitted in various departments against sanctioned seats at the rate of Rs.32500/- per month. In addition, contingency grant at the rate of Rs. 17500/- per annum is also paid to every candidate. The fellowship is enhanced to Rs.36000/- in case the candidate is able to publish 01 SCI/SCIE/SSCI index journal paper in category A/B or 1 SCI/SCIE paper in category C. Further, the Ph.D fellowship is enhanced to Rs.40000/- per month if additional paper is published in category A/B and fellowship generally continues for 4 years. It has been observed that many candidates are not working seriously during initial period i.e. in the first and second year of admission because they are assured of continuation of their fellowship up to 4 years. They do not devote their full time and energy for the research work. This issue was discussed in the meeting of HODs/Deans. It was felt that if the continuation of the Ph.D fellowship in 4th year was made conditional on acceptance/publication of one paper in SCI/SCIE/SSCI indexed journal, then students will become serious from the very beginning.

It is therefore, proposed to add an additional clause in the Ph.D fellowship rules that continuation of the Ph.D fellowship beyond 03 years and up to 04 years be made conditional subject to acceptance/publication of one paper in SCI/SCIE/SSCI indexed journal without any Article processing charges with immediate effect.

Decision : The Academic Council considered and approved the introduction of additional clause for continuation of DTU Ph.D. fellowship beyond 3 years.



Agenda 32.15 : Approval for minor revision in scheme and syllabus of M.Sc. Chemistry.

It was submitted to the Academic Council that the Department of Applied Chemistry has proposed minor revision of scheme and syllabus duly approved by BOS of the department.

Minutes of the BOS meeting along with revised syllabus of the Department of Applied Chemistry & recommendation were annexed in the Agenda note.

Decision : The Academic Council considered and approved the minor revision in scheme and syllabus of M.Sc. Chemistry.



Agenda 32.16 : Approval for changes in Comprehensive Examination for Ph.D. students.

It was submitted to the Academic Council that following changes in Comprehensive Examination for approval of Research Title for Ph.D. students were proposed:-

Existing clause for Comprehensive Examination	Proposed clause for Comprehensive Examination
<p>1. Each student will be required to take a comprehensive examination which will test students' comprehension of his broad field of research and his academic preparation and potential to carry out the proposed research plan. The comprehensive examination (of 100 marks) will be a combination of written (60 marks) and oral examination (40 marks) and will be conducted before evaluation of the research proposal. The examination will be conducted by the SRC. The question paper for the written examination may be set by one more of the members of the SRC.</p> <p>The following procedures will be uniformly followed by all the Departments in conducting the comprehensive examination for research students:</p> <ol style="list-style-type: none"> A student should first clear the requisite PhD course work. The written examination should then be conducted by the SRC of the student within the guidelines laid down by respective DRC. After the student has passed the written examination (36 marks out of 60 marks), the oral examination should be conducted by the SRC of the student. A student is required to score minimum of 60% marks in comprehensive examination (individually in written and oral) to become eligible for presenting his research before SRC. <p>2. The SRC on the basis of the performance of the student in the examination will make one of the following recommendations:</p> <ol style="list-style-type: none"> (i) Passed 	<p>1. Each student will be required to take a comprehensive examination which will test students' comprehension of his broad field of research and his academic preparation and potential to carry out the proposed research plan. The comprehensive examination (of 100 marks) will be a combination of written (60 marks) and oral presentation (40 marks) and will be conducted before evaluation of the research proposal. The examination will be conducted by a committee called Student's Research Committee (SRC), which will be constituted as follows:</p> <ol style="list-style-type: none"> Chairman, DRC or his nominee; One expert in the field from the Department/Centre; One Institute faculty expert, preferably in the concerned area, from outside the Department/Centre to which the student belongs; and Supervisor(s) <p>Experts at (b) and (c) above will be nominated by DRC from amongst those proposed by Supervisor(s).</p> <p>The following procedures will be uniformly followed by all the Departments in conducting the comprehensive examination for research students:</p> <ol style="list-style-type: none"> A student should first clear the requisite PhD course work. The written examination should then be conducted by the SRC of the department within the guidelines laid down by respective DRC. After the student has passed the written examination (36 marks out of



<p>(ii) To reappear in the examination after a defined period of time specified by SRC.</p> <p>(iii) Failed</p> <p>b) Research Plan</p> <p>(i) Recommended for Approval</p> <p>(ii) Not Recommended for Approval and to re-submit the research plan keeping in view suggestions of the Committee and to be evaluated after a defined period of time.</p> <p>3. A student will be provided a maximum of two attempts, with a minimum gap of two months, to pass the comprehensive examination.</p> <p>4. Student must complete the comprehensive examination and approval of their research plans within two years for full time, and two and half years for part time, from the date of joining the programme, failing which their registration will be cancelled.</p>	<p>60 marks), the oral presentation should be conducted by the SRC of the student within the broad guidelines laid down by the respective DRC.</p> <p>d) A student is required to score minimum of 60% marks in comprehensive examination (individually in written and oral) to become eligible for presenting his/her research plan before SRC.</p> <p>2. The DRC on the basis of the performance of the student in the examination will make one of the following recommendations:</p> <p>a) (i) Passed</p> <p>(ii) To reappear in the examination after a defined period of time specified by SRC.</p> <p>(iii) Failed</p> <p>b) Research Plan</p> <p>(iii) Recommended for Approval</p> <p>(iv) Not Recommended for Approval and to re-submit the research plan keeping in view suggestions of the Committee and to be evaluated after a defined period of time.</p> <p>3. A student will be provided a maximum of two attempts, with a minimum gap of two months, to pass the comprehensive examination.</p> <p>4. Student must complete the comprehensive examination and approval of their research plans within two years for full time, and two and half years for part time, from the date of joining the programme, failing which their registration will be cancelled.</p>
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The details are ***Annexed at pages 1 - 2.***

Decision : The Academic Council considered and approved the changes in SRC and Comprehensive Examination for Ph.D. students.



Agenda 32.17 : Approval for minor modifications in Ph.D. Admission Criteria for the Department of Civil Engineering.

It was submitted to the Academic Council that the Department of Civil Engineering has proposed for updating/changes in Ph.D. Admission Criteria. The proposed changes are as under:

- a) Changes to be made in the Ph.D. Admission brochure for Civil Engineering-

Academic Department	Discipline Offered	Qualifying Degree
Civil Engineering	1. Civil Engineering 2. Geoinformatics	No Change

- b) Revised syllabus for Civil Engineering and Geoinformatics were Annexed in the Agenda Note.

Decision : The Academic Council considered and deferred the item with the following observations:

1. A committee should examine the proposal and the matter may be placed before the Academic Council in next meeting.
2. The constitution of the committee is as follows:
 - i. Prof. Nirendra Dev, Dean (P&C) --- Chairperson
 - ii. Prof. S. Indu, Dean Student Welfare --- Member
 - iii. Prof. V.K. Minocha, HOD (Civil Engg.) --- Member
 - iv. Sh. Rajesh Mathur, Member, Academic Council --- Member
 - v. Prof. K.C. Tiwari --- Member

Agenda 32.18 : Approval for enhancement of intake in M.Tech (Computer Science and Engineering).

It was submitted to the Academic Council that the Department of Computer Science and Engineering is currently running M.Tech.(CSE) Full-Time Program with an intake of Non-sponsored 25 (Twenty-Five) students. As the program is highly in demand, the Department is able to fill all the seats in every academic year. It was proposed that the intake of the M.Tech (CSE) Full-Time Program may be increased to 30 (Thirty) students.

Decision : The Academic Council considered and approved for enhancement of intake in M.Tech (Computer Science and Engineering) to 30 students. Approval of AICTE should be obtained for implementing it from the Current Academic Year.

Agenda 32.19 : Approval for change of nomenclature of B.Tech (Computer Engineering) to B.Tech (Computer Science and Engineering).

It was submitted to the Academic Council that the Department of Computer Science and Engineering is currently running B.Tech (Computer Engineering) program. As the name of the Department and Post Graduate degree in Computer Science and Engineering, it is proposed that the nomenclature of the Undergraduate degree may be changed from B.Tech. (Computer Engineering) to B.Tech. (Computer Science and Engineering). Moreover, the proposed nomenclature has more recognition globally.

Decision : The Academic Council considered and approved the change of nomenclature of B.Tech (Computer Engineering) to B.Tech (Computer Science and Engineering).



Agenda 32.20 : To consider and approve the proposals regarding BBA-IEV program in University School of Management & Entrepreneurship (USME).

It was submitted to the Academic Council that the Government of NCT of Delhi is taking several initiatives to inculcate entrepreneurial mindset among the young children at school level. Entrepreneurship Mindset Curriculum in schools and the Business Blasters (BB) competition are two such initiatives among many others. The BB program is aimed at enhancing the mindset, skills and opportunities for school students in Delhi in the start-up arena.

As part of this program, there has been a directive from DTTE, to State Universities of Delhi to incorporate in their programs (and its admissions process), the provision of sufficient number of seats meant specifically for those participants of the Business Blasters Competition, who may have been members of the teams selected amongst the top teams in the Competition. Arrangements need also be made to ensure that adequate focus on entrepreneurship is provided during the course of undergoing the undergraduate program, including opportunities for undertaking the venture creation and development, by these participants.

A meeting of the Board of Studies, USME was held on 25th April 2022, and with additional discussion held later, in online mode, to discuss the various aspects such as number of seats for such students, eligibility and admission criteria and curriculum structure for suitable undergraduate program i.e. BBA-Innovation, Entrepreneurship and Venture Development.

Basis the recommendation, the following is proposed for consideration of the Academic Council for approval:

1. Keeping in view the requirement to admit suitable candidates who have been successful in the Business Blasters Competition held for students of schools in Delhi as part of the Entrepreneurship Mindset Development Program, in a suitable undergraduate program, the launch of BBA Innovation Entrepreneurship and Venture Development program may be permitted as a new program. The students admitted for the program who successfully complete the credit and other requirements would be awarded the degree of BBA-IEV (basis three year curriculum design), and BBA IEV (Honours) basis four years curriculum design.
2. Keeping in mind the novelty and availability of candidates, the program may provision for Thirty (30) seats for BBA-IEV program at this stage.

3. Mode of admission would keep in mind all statutory requirements and the following admission eligibility and admission criterion may be considered for approval:

A. Eligibility

- (i) The candidate must have scored at least 50% marks in 12th board examination from a recognised board. Vocational/Skill-based courses (as specified in the CBSE list) will also be permitted to be included in the final percentage to be used for determining eligibility.
- (ii) Must necessarily be part of a team which has been awarded a position amongst the top ranking teams (acceptable ranking or performance for admission eligibility as specified by DoE/ DTTE), in the Business Blaster's Competition.
- (iii) Those who are appearing in the qualifying Std. XII (Board) examination may also apply, provided that they submit the proof of eligibility by a specific date declared by the University.

B. Admission criteria for BBA-IEV.

The merit list is proposed to be drawn on the basis of the following two components:

- (i) Weightage of fifty percent (50%) in the final merit list calculation, will be given to the component "Indexed Score of the rank achieved in the Business Blasters competition)" wherein the rank obtained by the student in the Business Blaster program for all students will be used to calculate, based on total Ranks in the ranking list of eligible candidates, an index score, which will be used for determining the score for this component out of total of 50 marks.
- (ii) The weightage of 50% (fifty percent) will be assigned to the component of "Personal Interview" based on Venture Ideation and Development, and overall fitness of candidate for the program. A duly constituted panel will conduct interviews of all candidates selected for interviews to the BBA-IEV track by the admission committee.

They will assign marks out of a total of 50 marks based on candidates' suitability.

- (iii) The total score of 100 will be used for determining the merit list of candidates.

- (iv) To resolve and determine inter-se merit of candidates having same score out of 100 from above two components, the following will be given preference:
- a. Candidates date of birth will be considered. Elder candidate will be given preference.
 - b. Candidate with higher rank in Business Blasters' program will be given preference if the above date of birth criterion also results in a tie.
4. The related regulations of the BBA-IEV program, the curricular structure and course credits were also proposed for consideration. ***Annexed at pages 3 - 12.***

Decision : The Academic Council considered and approved the proposal for starting BBA-IEV program with intake of 30 seats in University School of Management & Entrepreneurship (USME) for candidates selected through Business Blasters' program.



Agenda 32.21 : To consider recommendations of the Committee constituted to audit the question papers of all programmes.

It was submitted to the Academic Council that a committee was constituted by the Competent Authority vide office order no. DTU/2018/Secrecy/Audit of QP/07/4001-4030 dated March 30, 2021 to audit the question papers of all programmes in accordance with the guidelines for setting of good quality question papers.

Further, vide F.No. DTU/2018/Secrecy/Audit of QP/07/4180 dated 15th March 2022, additional responsibility was assigned to this committee to review the guidelines for setting good quality question papers and prepare guidelines and templates on mapping of Course Outcome.

The meetings of the Committee were held on 01.04.2022, 08.04.2022 and 25.04.2022.

The following members were present:

- | | |
|--|--------------------|
| 1. Prof. Neeta Pandey, Dept. of ECE | : Chairperson |
| 2. Prof. Rishu Chaujar, Dept. of AP | : Vice-Chairperson |
| 3. Prof. Amit Mookerjee, USME | : Member |
| 4. Prof. Rajan Yadav, DSM | : Member |
| 5. Prof. Priya Mahajan, Dept of EE | : Member |
| 6. Prof. Anil Singh Parihar, Dept of CSE | : Member |
| 7. Prof. Roli Purwar, Dept. of AC | : Member |
| 8. Prof. Yasha Hasija, Dept. of BT | : Member |
| 9. Prof. Rajiv Chaudhary, Dept. of ME | : Member |

AUDIT OF QUESTION PAPERS

The Committee reviewed the existing guidelines of good quality question papers and other documents like National Education Policy 2020 (NEP2020), Guidelines from UGC and AICTE; and recommended the following:

1. As the syllabus of M. Tech. courses has not been detailed unit-wise, therefore the Unit-Wise audit may be replaced with the course outcomes (COs) based audit in the existing question paper audit guidelines. The audit of question paper may be conducted for Mid-Term Examination and End-Term Examination question papers collectively. The modified guidelines for setting Good Quality Question Papers has been prepared in accordance with the guidelines issued by UGC/AICTE as well as per the requirement of NBA.
2. The question paper shall clearly indicate associated CO and Bloom's Taxonomy Learning level (L) against each question (sub-part of the question)



along with marks for all the programmes. Questions in a paper should be properly aligned to COs (related to written exam).

e.g. Ques. 1. Design a circuit of full adder using two half adders. (CO2, L3)

3. Coverage of Syllabus (A): 35%-40% coverage of the syllabus should be done till Mid Term Examination (Syllabus-I), and remaining 60-65% of the syllabus should be completed before the last day of teaching (Syllabus-II).
 - a. Question paper of the Mid Term Examination should be uniformly distributed over Syllabus-I.
 - b. Question paper of the End Term Examination should carry 20-25% weightage from Syllabus-I and rest 75-80% weightage from Syllabus-II. For example, a question paper of total marks 50, should carry 10 marks questions from Syllabus-I and 40 marks questions from Syllabus-II.
4. There shall be no choice in Mid Term Examination. The question paper for End Semester Examination may have choice not more than 20%.

In view of the quality of question papers as per NBA, NEP 2020 and guidelines issued by UGC/AICTE, the modified Guidelines for Setting Good Quality Question Papers are **Annexed at pages 13 - 21**.

Decision : The Academic Council considered and approved the revised Guidelines for preparing good quality question papers for different UG & PG programs.



Agenda 32.22 : Approval for two courses of B.Tech (Continuing Education) to be kept in abeyance.

It was submitted to the Academic Council that 11th meeting of University Admission Committee was held on 26.04.2022. The para 9 of the minutes of meeting is reproduced below:

“it was decided that those B.Tech (Continuing Education) and M.Tech programs where admission is less than 1/3rd of the total intake, in such programs the admission for academic year 2022-23 is to be kept in abeyance”.

In this regard, total intake of admission for each program is given as under:-

Branch	No. of students admitted in AY 2020-21	No. of students admitted in AY 2021-22	% of intake	
			2020-21	2021-22
CE	22	22	37%	37%
ME	23	10	38%	17%
EE	58	49	97%	82%
ECE	11	09	18%	15%

As per para 9 of the minutes of meeting, the following two B.Tech programs under Continuing Education had intake of admission less than 1/3rd of total intake:-

1. Mechanical Engineering
2. Electronics and Communication Engineering

Decision : The Academic Council considered and recommended that admissions in two B.Tech (Continuing Education) programs i.e. B.Tech (Continuing Education) in Mechanical Engineering and B.Tech (Continuing Education) in Electronics and Communication Engineering to be kept in abeyance.

Further, for admissions in B.Tech (Continuing Education) in Electrical Engineering and B.Tech (Continuing Education) in Civil Engineering the following decisions were made:

1. For admission to B.Tech (Continuing Education), regular employment certificate along with Bank Account Statement of Salary of the applicant should be examined.
2. Only sponsored candidates from the company having 02 years of working experience should be admitted in the course.
3. These students shall not be eligible for placement opportunity from the campus.
4. MOU may be entered into, with the company or department willing to sponsor candidates in bulk for this program, if required.

Agenda 32.23 : Implementation of Regulation R.1 (B).16 (ii) of the Ordinance of UG and PG programmes.

Following was submitted to the Academic Council:-

1. As per Regulation R.1 (B).16 (ii) of DTU Ordinance ***“Mid – Term Examination will be conducted by course coordinator and the faculty members concern during the slot notified by the COE”***
2. At present Mid Term Examination (MTE) is conducted by Examination Branch for B.Tech, B.Tech (Continuing Education), B.Design programmes. For all other programmes, MTE is conducted at the department level.
3. During the Academic year 2020-2021 & 2021-2022, the University adopted continuous evaluation, where in the respective faculty conducted all the components of evaluation at the department level. Moreover, (class, section) wise grading has also been implemented for all courses after the evaluation of all the components.
4. In view of the Regulation R.1 (B).16 (ii) and the position explained above, it is proposed that the Mid Term examination (MTE) of all UG and PG programmes to be conducted by the Course Coordinator at the level of department in the following manner:
 - (i) Slot for the conduct of Mid Term Examination (MTE) to be notified by COE in accordance with the Academic Calendar.
 - (ii) Datasheet to be prepared and published by the departments.
 - (iii) The Departments shall receive the answer books from the Stores.
 - (iv) Whenever required, the printing of question papers can be carried out at the Examination Branch.

Decision : The Academic Council discussed the proposal and decided to continue the conduct of mid-term examination centrally by the Examination Section similar to end-term examination.

Agenda 32.24 : Approval for Seat Matrix for Ph.D. admission in August 2022.

It was submitted to the Academic Council that seat matrix is proposed for Ph.D admission in August 2022 for consideration and approval of the Academic Council:-

Vacant Seats for full time Ph.D. programme with University Scholarship for the Session: August 2022				
Name of the Department	Discipline Offered by the Departments	Code of the Department	Tentative total Available Seats with DTU Fellowship	*UGC/CSIR-NET JRF/Part-Time/ without DTU fellowship
Applied Chemistry	1. Chemistry	AC	3	Seats are available subject to the availability of slots (with prospective supervisors)
	2. Chemical Engineering		1	
Applied Physics	1. Physics	AP	Nil	
	2. Engineering Physics			
Applied Mathematics	1. Mathematics	AM	2	
	2. Mathematics and Computing		1	
Civil Engineering	Civil Engineering	CE	Nil	
Computer Science & Engineering	Computer Science and Engineering	CSE	4	
Electronics & Communication Engineering	Electronics and Communication Engineering	ECE	7	
Electrical Engineering	Electrical Engineering	EE	7	
Environmental Engineering	Environmental Engineering	ENE	Nil	
Mechanical Engineering	Mechanical Engineering	ME	8	
Delhi School of Management	Management	DSM	3	
Information Technology	Information Technology	IT	2	
Software Engineering	1. Software Engineering	SE	1	
	2. Computer Science		1	
Humanities	Economics	HUM	Nil	
Design	Design	DES	Nil	
USME	1. Management	USME	1	
	2. Economics		1	
	3. Innovation, Entrepreneurship & Venture Development		1	
Total			43	

Decision : The Academic Council considered and approved the number of fellowships to be offered for Ph.D. admission in August 2022 with the advice that this being the routine matter may be put up before the Academic Council for information.

Agenda 32.25 : Approval for modification in the seat matrix for admission brochure for International students for academic Year 2022-2023.

It was submitted to the Academic Council that the University is set to release the advertisement for the admission of foreign nationals for the academic session 2022-23. The following modifications are proposed in the admission brochure for 2022-23 from that of previous year.

A. Amendment in the criterion for the admission of NRI/OCI/PIO/FN to B.Des. program through UCEED for the academic session 2022-23.

Following is the eligibility criterion for NRI/OCI/PIO/FN for admission to B.Des. program through UCEED.

- The candidate must obtain valid UCEED examination score for admission to B.Des. program for current academic year.
- 7.5 % seats of B.Des. program are proposed to be allocated for NRI/OCI/PIO/FN candidates through UCEED ranking. And, the same may be appended in the admission brochure bringing change in the seat matrix by bifurcation of seats earlier enmarked only for foreign national students.
- The proposed fee structure for such NRI/PIO/OCI/FN candidates to be admitted through UCEED should be equivalent to that of NRI/PIO/OCI/FN students admitted to B.Tech. program under DASA (Non-CIWG category).
- Accordingly, for the admission to academic year 2022-23, the proposed fee shall be US \$ 8000 + US \$ 1100 NGF.

Revised Seat Matrix for B.Des. Program.

Discipline	Seats through UCEED for NRI/OCI/PIO/FN	M2(a)	M2(b)	M3(a)	M3(b)
B.Des	9	2	3	3	1
Sub – Total					18

B. Revised Seat Matrix for M.Tech Program.

Since, new M.Tech programs namely Industrial Engineering and Management (IEM), Energy System and Management (ESM), Computer Aided Analysis and Design (CAD) are introduced from academic year 2022-23, accordingly seat matrix has been revised.

M.Tech	Discipline	M1	M2(a)	M2(b)	M3(a)	M3(b)
	PTE	1	2		1	
	NST	1	2		1	
	BIO	1	2		1	
	IBT	1	2		1	
	GTE	1	2		1	
	HRE	1	2		1	
	STE	1	2		1	
	GINF	1	2		1	
	CSE	1	2		1	
	SWE	1	2		1	
	ISY	1	2		1	
	MOCE	1	2		1	
	PES	1	2		1	
	SPD	1	2		1	
	VLS	1	2		1	
	C&I	1	2		1	
	PSY	1	2		1	
	ENE	1	2		1	
	PIE	1	2		1	
	THE	1	2		1	
	AI	1	2		1	
	DSC	1	2		1	
	IEM	1	2		1	
	ESM	1	2		1	
	CAD	1	2		1	
	Sub - Total				100	

- C. There is no change in number of seats for, B.Tech, BA (ECO), BBA, MBA, MBA (BA), M.Sc and M.Des programs as given below. However, additional number of seats may be included with prior permission from chairman, Academic Council.

Seat Matrix of B.Tech

B.Tech.	Discipline	M1	M2 (a)	M2(b)	M3(a)	M3(b)	M3(c)
	ECE	12	5	8	4	4	4
	COE	24	10	17	7	7	7
	ME	15	6	10	5	4	5
	EE	15	6	10	5	4	5
	PIE	4	2	2	1	2	1
	CE	7	3	6	2	2	2
	ENE	4	2	2	1	2	1
	CHE	4	2	2	1	1	1
	IT	9	4	6	3	3	3
	BT	4	2	2	1	1	1
	SE	9	4	6	3	3	3
	MAM	4	2	3	1	1	1
	EP	6	2	4	2	1	2
	MC	9	4	6	3	3	3
	Total	380					

Seat Matrix of, BBA, BA(ECO)

Discipline	M2 (a)	M2 (b)	M3 (a)	M3 (b)
BA (ECO)	4	6	6	2
BBA	4	6	6	2
Total	36			

Seat Matrix for M.Sc, MBA, MBA (BA), and M.Des

	Discipline	M1	M2(a)	M2(b)	M3(a)	M3(b)
M.Sc	Mathematics	-	3		1	
	Physics	-	3		1	
	Chemistry	-	3		1	
	Biotechnology	-	3		1	
	Sub - Total				16	
M.Des	M.Des	-	4		2	
	Sub - Total				6	
MBA	MBA	-	13		5	
	MBA-(B.A.)	-	7		2	
	MBA-(FBE)	-	3		3	
	MBA-(EIV)	-	3		3	
	Sub - Total				39	
	Total				61	

Decision : The Academic Council considered and constituted a committee of the following faculty members to examine the proposal and recommend the policy for admission of NRI/OCI/PIO/FN students in B.Des program within two weeks:

1. Prof. Vishal Verma, Dean (International Affairs) – Chairperson
2. Prof. M.S. Ranganath, HOD (Design) – Member
3. Prof. Pragati Kumar – Member
4. Prof. Narendra Kumar II – Member

The Council further authorised the Vice Chancellor to accept the recommendations of the committee.



Agenda 32.26 : Approval for seat matrix for MBA (Regular) and MBA (Executive) admission 2022-24 in Delhi School of Management.

It was submitted to the Academic Council that the Delhi School of Management has proposed the seat matrix for MBA (Regular) including the reservation of PWD sub-category and Defence sub-category in each category is detailed out as follows:

Seat Matrix MBA (Regular)

Category Code	Seats	Total
GNGN	55	61
GNPD	3	
GNCW	3	
EWGN	13	15
EWPD	1	
EWCW	1	
OBN	36	40
OBPD	2	
OBCW	2	
SCGN	21	23
SCPD	1	
SCCW	1	
STGN	9	11
STPD	1	
STCW	1	
Total	150	150

Seat matrix, including the reservation category in each category is detailed out as follows for MBA (Executive) admission 2022-24. The seat matrix is same as that approved for 2021-23.

Seat Matrix MBA (Executive)

Category	No of Seats (intake)	PwD	Defence	Total
General (Open)	28	02	01	31
EWS	06	0	01	07
OBC	18	01	01	20
SC	10	01	0	11
ST	05	0	01	06
Total				75
Seats over and above normal intake				
Kashmiri Migrant	01			
DTU staff	02			

Decision : The Academic Council considered and approved the seat matrix for MBA (Regular) and MBA (Executive) programs in DSM for the academic year 2022-24. The Council also advised that this being the routine matter may be put up before the Academic Council for information in future.

Agenda 32.27 : Approval for seat matrix for MBA admission 2022-24 in University School of Management (USME).

It was submitted to the Academic Council that the University School of Management and Entrepreneurship has proposed the Seat Matrix for the MBA-BA, MBA-FBE, MBA-IEV Programs as follows.

Each program has total 40 seats.

GEN	14	16
GENPD	1	
GEN -DEF	1	
ST	3	3
STPD	0	
ST-DEF	0	
SC	6	6
SCPD	0	
SC-DEF	0	
OBC	9	11
OBCPD	1	
OBC-DEF	1	
EWS	4	4
EWSPD	0	
EWS-DEF	0	
TOTAL	40	40

Decision : The Academic Council considered and approved the seat matrix for different MBA programs in University School of Management (USME) for the academic year 2022-24. The Council also advised that this being the routine matter may be put up before the Academic Council for information.

Agenda 32.28 : Approval for revised syllabus of MBA 2nd year for the batch 2021-23 onwards in Delhi School of Management.

It was submitted to the Academic Council that the Delhi School of Management has proposed revision of syllabus of MBA 2nd year for the batch 2021-23 onwards. First year syllabus was already approved by the Vice Chancellor.

Minor revision in the content of electives have been made in the 3rd and 4th semester of 2nd year has been approved and recommended by the Board of Studies (BOS) of the department. Minutes of BOS meeting and revised syllabus were ***Annexed in agenda note*** .

Decision : Academic Council considered and approved the revised syllabus of MBA 2nd year for the batch 2021-23 onwards in Delhi School of Management.



Agenda 32.29 : Proposal for 1-year internship for M.Tech final year students.

It was submitted to the Academic Council that the placement of final year M.Tech Students has significantly improved in the last few years. In the academic year 2021-22, we have again surpassed last year placement records (In terms of both quality and numbers) which is all time high. The provision of six-month internship has contributed towards better placement figures.

However, a new trend is emerging in the industry for last few years. Many reputed companies like INTEL, QUALCOMM, ARM, AMD, PHILIPS, NVIDIA, NATIONAL INSTRUMENTS, STMICROELECTRONICS, MARVEL SEMICONDUCTORS are preferring one-year internship for M.Tech students. Some of these big brands have not been visiting DTU because we are not offering one- year internship for M.Tech students.

Moreover, many other reputed institutes like Indian Institute of Technology (IIT)-Delhi, National Institute of Technology (NIT)-Warangal, NIT-Kurukshetra, NIT-Jaipur and NIT-Delhi are permitting their students for one-year internships.

As per current practice, DTU permits M.Tech students to intern for a period of 6 months, in their final semester. It is proposed that the students may be allowed to avail the internship opportunities in the reputed companies in their final year, thereby effectively extending the internship period up to one-year. This relaxation is proposed only for selected cases, where a prestigious company intends to make such an offer to the students, which will serve the dual purpose of cementing university-corporate relations as well as provide exposure to extant industry practices through requisite collaboration.

The salient points of the proposal are as under:

- a) In the existing M.Tech course curriculum, there are 3 Elective subjects and project - 1 in IIIrd Semester and Project-2 in IVth Semester. The students selected for internship can be allowed to take the online courses (approved by BOS of the respective department) as their electives in IIIrd semester. The student has to submit the course completion certificate. However, the evaluation of such online courses (i.e. Mid/End semester examination) shall be conducted by the university.



- b) The student has to take consent from his/her project supervisor by giving the undertaking to complete the project work in the time bound manner and report to the supervisor as per requirement of the project work.
- c) The student will be allowed to intern only in the reputed companies as recommended by the department of training & placement.
- d) The student, who has got full-time job offer from a company, will not be allowed to intern in any other company.
- e) The student has to forgo GATE/ University stipend, in accordance with the relevant guidelines.

The provisions in above proposal are made to encourage and facilitate the students keen on seeking extended internship opportunities in their final year.

- a) The proposal has been made keeping in mind the importance of education based on the skill gap analysis and mapping of local opportunities as per the National Education Policy (NEP) 2020. This proposal seeks to align the student's interest with the ongoing initiatives within the industries, providing an avenue for new collaborations and partnerships with reputed industrial entities.
- b) The proposal shall be helpful in orienting the curriculum more towards the latest industry practices. Further, it will also be instrumental in securing a better score in various national/international accreditations/rankings such as NBA, NAAC, QS ranking etc.

The proposal will also help the university to stand at par with the institutions of national importance which are frequented by these organizations, thereby enhancing our industry connection and providing more exposure to the wider student community.

Decision : The Academic Council considered and approved the proposal for 1-year internship for M.Tech final year students. The M.Tech students who wish to go for year-long internship may register additionally their 3rd semester elective courses while studying in 1st and 2nd semester and can devote their full time for internship/project works. However, M.Tech students of current final year batch may be given option to study their 3rd semester course through MOOC or equivalent online courses as approved by their Board of Studies on case to case basis.

Agenda 32.30 : Approval for Admission Brochures for the academic year 2022-23 for all UG/PG/Ph.D programmes.

It was submitted to the Academic Council that the Admission Brochure for the academic year 2022-23 for the following UG/PG/Ph.D programs have been prepared.

1. B.Tech
2. B.Tech (Continuing Education)
3. B.Tech (Lateral Entry)
4. M.Tech
5. M.Tech (Part Time)
6. M.Sc.
7. MBA
8. MBA (Executive)
9. MBA (Family Business & Entrepreneurship)
10. MBA (Business Analytics)
11. MBA (Innovation, Entrepreneurship and Venture Development)
12. Ph.D
13. B.Des
14. M.Des
15. BBA

Decision : The Academic Council considered and approved Admission Brochures for the academic year 2022-23 for all UG/PG/Ph.D programs. The Council also authorized Vice Chancellor to accept changes required, if any. The Council also advised that this being the routine matter may be put up before the Academic Council for information.

Agenda 32.31 : Mandatory Publication Requirement for Award of PhD Degree – Disciplines of Management, Social Sciences and Economics, Innovation Entrepreneurship and Venture Development and Humanities (Including English).

It was submitted to the Academic Council that as per the clause of the Ph.D Ordinance, 2019, Section R.15.2 A (iii) stating that “For those departments which do not have sufficient number of journals which are SCI/SCIE/SSCI indexed, department will prepare and publish a list of journals of high repute for the aforesaid mandatory requirements of two research papers. The list will be recommended by the DRC at the beginning of every academic year for the approval of the Vice Chancellor.”

The Joint DRC of DSM, Humanities and Social Sciences and USME comprising discipline areas: Management, Social Sciences (Including Economics), Innovation Entrepreneurship and Venture Development, and Humanities (Including English), considered the proposed list of additional journals and recommended that the following additional journals may be considered for the mandatory publication requirement for completion of PhD Degree by the Scholar in these above disciplines, in addition to the existing journals already prescribed for mandatory publication requirement:-



S. No.	Existing	Proposed
1.	<p>Candidate has published minimum two research papers in SCI/SCI expanded/SSCI indexed journals or has produced the evidence in the form of acceptance letter. Only those publications will be counted toward the minimum condition where the sole authors of the papers are the candidate or candidate and supervisor(s) both. For those departments which do not have sufficient number of journals which are SCI/SCI Expanded/SSCI indexed, department will prepare and publish a list of journals of high repute for the aforesaid mandatory requirements of two research papers. The list will be recommended by the DRC at the beginning of every academic year for the approval of the Vice Chancellor.</p>	<p>For discipline of Management Social Sciences and Economics, Innovation Entrepreneurship and Venture Development: Candidate has published minimum two research papers in Journals of Management, Economics. Innovation Entrepreneurship and Venture Development, and related areas i) in reputed publication houses like Springer/Elsevier/Emerald/Inderscience/IGI/Wiley/Taylor and Francis /Oxford/IEEE/SAGE ii) Journals listed in the ABDC/ASI/REPEC list of journals iii) Scopus journals listed in the University Grants Commission CARE approved refereed journals list,</p> <p>or has produced the evidence in the form of acceptance letter. Only those publications will be counted toward the minimum condition where the sole authors of the papers are the candidate or candidate and supervisor(s) both.</p> <p>For discipline of Humanities including English: In addition to above list of additional journals, candidate has published minimum two research papers in journals listed in UGC Care, or has produced the evidence in the form of acceptance letter. Only those publications will be counted toward the minimum condition where the sole authors of the papers are the candidate or candidate and supervisor(s) both.</p>

Decision : The Academic Council considered and approved the following additional list of journal against clause R 15.2A(iii) of Ph.D Ordinance in the disciplines of Management, Social Sciences and Economics, Innovation Entrepreneurship and Venture Development and Humanities (Including English):

- i) in reputed publication houses like Springer/Elsevier/Emerald/Inderscience/IGI/Wiley/Taylor and Francis /Oxford/IEEE/SAGE
- ii) Journals listed in the ABDC/ASI/REPEC list of journals
- iii) Scopus journals listed in the University Grants Commission CARE approved refereed journals list

Agenda 32.32 : To approve the scheme and syllabus of Ph.D. coursework papers offered by Department of Applied Physics.

It was submitted to the Academic Council that the Department of Applied Physics has proposed the scheme and syllabus for Ph.D. coursework papers. Based on the approval of Board of Studies, Applied Physics, Scheme and syllabus of Ph.D. coursework papers with following suggestions by the members of the Board of Studies:

- (i) Though the courses are divided in two semesters (Odd/Even) as per the format defined by UG branch, the members suggested that the course may be considered floating so that the students can opt them in any semester, strictly depending upon the choice and minimum number of students.
- (ii) A pre-Ph.D. course will be floated only when there are a minimum of 05 students.

DELHI TECHNOLOGICAL UNIVERSITY SCHEME OF EXAMINATION Ph.D. Courses of Applied Physics (2021-22)													
Semester-I (ODD)													
S. No.	Course Code	Course Name	Type/ Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
1.	PHY XXX	Physics of Nanomaterials	Elective	4	4	0	0	20	0	30	50	-	08
2.	PHY XXX	Computational Physics and Programming	Elective	4	4	0	0	20	0	30	50	-	
3.	PHY XXX	Advanced Materials for Photonic Applications	Elective	4	4	0	0	20	0	30	50	-	
4.	PHY XXX	Nano-Electronics and devices	Elective	4	4	0	0	20	0	30	50	-	

Semester-II (EVEN)													
S. No.	Course Code	Course Name	Type/ Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credit
1.	PHY XXX	Design and Synthesis of Nanostructures	Elective	4	4	0	0	20	0	30	50	-	08
2.	PHY XXX	Analytical Techniques	Elective	4	4	0	0	20	0	30	50	-	
3.	PHY XXX	Nano photonics	Elective	4	4	0	0	20	0	30	50	-	
4.	PHY XXX	Introduction to Density Functional Theory	Elective	4	4	0	0	20	0	30	50	-	

The syllabus was annexed in the Agenda note.

Decision : The Academic Council considered and advised the Applied Physics Department to allow their Ph.D students to register courses already approved in schemes of B.Tech/M.Tech/M.Sc. programs.



Agenda 32.33 : Approval for revision of syllabus of EC 402 (Wireless Communication), Department of ECE.

It was submitted to the Academic Council that the Department of Electronics and Communication Engineering has proposed revision of syllabus EC 402 (Wireless Communication) for B.Tech students. The detailed revised syllabus was annexed in Agenda note.

Decision : Academic Council considered and approved for revision of syllabus of EC 402 (Wireless Communication), Department of ECE.

Agenda 32.34 : Approval for revision of syllabus of M.Tech (SPDD), Research Methodology and Report Writing, Department of ECE.

It was submitted to the Academic Council that the Department of Electronics and Communication Engineering has proposed revision of syllabus of M.Tech (SPDD), Research Methodology and Report Writing. Available in M.Tech (SPDD) with code SPD 5202 and the same course was recommended for introducing in M.Tech (VLSI) & M.Tech (MOC) with paper code VLS 5209 & MOC 5211 respectively.

The detailed revised syllabus was annexed in Agenda note.

Decision : The Academic Council approved inclusion of VLS 5209 (Research Methodology and Report Writing) and MOC 5211 (Research Methodology and Report Writing) in their respective M.Tech scheme of teaching and examinations.



Agenda 32.35 : Approval for introduction of new M.Tech Program in Communication Systems Specialization.

It was submitted to the Academic Council that the Department of Electronics and Communication Engineering proposed to introduce new M.Tech program in Communication Systems Specialization. The scheme and detailed syllabus were annexed in Agenda note.

Decision : Academic Council considered and deferred the agenda for introducing new M.Tech program in Communication Systems Specialization in the department of Electronics and Communication Engineering. The Council recommended that since similar M.Tech program in Microwave & Optical Communication (MOC) is already approved/offered in the past jointly by Applied Physics department and Electronics & Communication department, but the number of enrollment is very less in this program for last 5 years. Therefore, M.Tech (Microwave & Optical Communication) program will be solely offered by Electronics & Communication Engineering department and if necessary, its nomenclature may be revised in future. However, faculty members of Applied Physics, if interested, may teach subjects in MOC of their respective specialization.

Agenda 32.36 : Matter for information.

Academic Council in its 30th meeting vide agenda no. 30.15 has advised "to increase the intake to 60 and to constitute a committee to re-examine the eligibility criteria for admission to M.A. (Economics) program. The Council also authorized Vice Chancellor to approve the recommendations of the Committee."

Accordingly, Committee of experts met on 06.01.2022 and submitted its recommendations (Copy **Annexed at page 22 – 23**). The same has been approved by the Vice Chancellor. The same is submitted for the information of the Council.

The Academic Council noted the above information.

Agenda 32.37 : Any other item with the permission of the Chair.

The Council advised that for award of Ph.D. degree, publication in non-paid journal is necessary. No Ph.D. degree be awarded on publication of paper in the paid journals. Dean (PG) should notify it accordingly.

The meeting ended with vote of thanks to the members.


(Prof. Madhusudan Singh)
Registrar

ANNEXURE
for
Minutes

32nd meeting of
Academic Council
DTU

18-05-2022

- (M) Failed
- (b) Research Plan
 - (i) Approved
 - (ii) Not approved

R.8.3 A student will be provided a maximum of two attempts to pass the comprehensive examination.

R.8.4 Full-time and part-time students must complete the comprehensive examination within 18 and 24 months respectively from the date of joining the programme, failing which their registration will be cancelled.

9. ELIGIBILITY FOR THE CANDIDACY FOR THE DEGREE

R.9.1 Application for the candidacy for the Ph.D. Degree shall be made by the student to the BPGS&R on the approved form (Annexure 'B') soon after having passed the comprehensive examination.

R.9.2 A student shall be formally registered as a candidate for the Ph.D. Degree after he has complied with the following :

- (i) has completed his course work with a minimum CGPA of 7.50;
- (ii) has submitted a research plan duly recommended by DRC/CRC, and approved by SRC; and
- (iii) has passed the comprehensive examination.

R.10 PERFORMANCE MONITORING

R.10.1 The academic/research progress of each student/candidate will be monitored either by DRC/CRC or by its sub-committee. For this purpose, each candidate will be asked to submit a progress report at the end of each semester to his supervisor(s). On receipt of the progress report, the supervisor(s) shall arrange with DRC/CRC or its sub-committee for a review.

R.10.2 The DRC/CRC Secretary/Ph.D. Coordinator will be coordinating collection of progress reports written and signed by the scholars and forwarded by the supervisors every semester.

R.10.3 The supervisor(s) SRC/DRC/CRC will evaluate the progress report of the student every semester.

R.10.4 'X' grade is to be awarded during that semester if the progress is 'satisfactory'.

R.10.5 If the progress is 'unsatisfactory', 'U' grade is to be awarded and appropriate action taken. For the first appearance of 'U' grade, a warning would be issued to the candidate. Subsequently, the fellowship (in case of regular scholar) of the candidate would be withheld.

R.10.6 If there are two consecutive 'U' s, the registration will stand terminated.

III. A Supervisor resigns

A new Supervisor will be appointed, if necessary, as per I(a), and a caretaker supervisor as per I(b).

IV. A Supervisor dies

A new Supervisor will be appointed, if necessary, on the recommendation of DRC/CRC.

R.8 COMPREHENSIVE EXAMINATION

R.8.1 Each student will be required to take a comprehensive examination which will test students' comprehension of his broad field of research and his academic preparation and potential to carry out the proposed research plan. The comprehensive examination should be a combination of written and oral examination and should be separately conducted before evaluation of the research proposal. The examination will be conducted by a committee called Student's Research Committee (SRC), which will be constituted as follows :

- (a) Chairman, DRC/CRC or his nominee;
- (b) One expert in the field from the Department/Centre;
- (c) One Institute faculty expert, preferably in the concerned area, from outside the Department/Centre to which the student belongs; and
- (d) Supervisor(s).

Experts at (b) and (c) above will be nominated by DRC/CRC from amongst those proposed by Supervisor(s).

R.8.1. (i) The following procedures to be uniformly followed by all the Deptts./Centres in conducting the comprehensive examination for Ph.D. Scholars :

- (a) A student should first clear the requisite Ph.D. course work.
- (b) The written examination should then be conducted by the SRC of the student within the guidelines laid down by respective DRC/CRC.
- (c) The result of the written examination should be declared within two weeks.
- (d) After the student has passed the written examination, the oral examination should be conducted by the SRC of the student within the broad guidelines laid down by the respective DRC/CRC.
- (e) This should be followed by evaluation of the research proposal.

R.8.2 The Student's Research Committee on the basis of the performance of the student in the examination will make one of the following recommendations :

- (a) (i) Passed
- (ii) To reappear in the examination after a defined period of time specified by the SRC and after taking additional courses.
- (iii) To re-submit the research plan keeping in view suggestions of the Committee and to be evaluated after a defined period of time.

Annexure I

BBA – Innovation Entrepreneurship and Venture Development Program Admission, Eligibility Criterion and Curricular Structure and Regulations

Preamble

The recent initiative of the Delhi Government in the area of entrepreneurship development includes the Entrepreneurship Mindset Curriculum in schools and the Business Blasters competition. This competition is aimed at enhancing the mindset, skills and opportunities for school students in Delhi in the start-up arena.

As part of this program, there has been a directive from DTTE, to State Universities of Delhi to incorporate in their suitable undergraduate program (and its admissions process), the provision of sufficient number of seats meant specifically for those participants of the Business Blasters Competition, who have been members of the teams selected amongst the top teams in the Competition. Arrangements need also be made to ensure that adequate focus on entrepreneurship is provided during the course of undergoing the undergraduate program, including opportunities for undertaking the venture creation and development, by these participants.

The BBA - Innovation, Entrepreneurship and Venture Development (BBA-IEV)

The Business Blaster program being run in the schools of Delhi, encourages the students who are all studying the entrepreneurship mindset development curriculum, to propose their own venture ideas. These ideas are screened at various levels, and the final set of venture ideas will be selected through the competition, where students who have proposed these venture ideas, will receive the awards and facilities under the Business Blasters program.

One of the facilities is that the students so qualifying as one amongst the best teams, will be provided an opportunity to avail admission to the suitable undergraduate program run by various State Universities of Delhi NCT. These admissions will be against the seats allocated specifically under the scheme to promote the entrepreneurial activities of students so awarded under the Business Blasters scheme.

In this regard, as per directive, a new program, the BBA – Innovation, Entrepreneurship and Venture Development (IEV), is being proposed to be offered at USME, DTU, to cater to student's entrepreneurship mindset, skills enhancement and venture development facilitation.

This program has been designed to offer specific curriculum attuned to develop entrepreneurship skills and to have courses/modules facilitating venture development as a curricular component, including content specific to areas of venture ideation and development, including taught, guided, mentored and self-learning modules. This design has adopted various components from the the AICTE model curriculum for MBA-IEV.

1. Number of Seats for BBA-IEV Program:

It is further proposed that the BBA-IEV program may initially offer seats to **30 students**. All of these 30 seats would be provided to those students who are eligible due to the rank achieved in the Business Blasters Competition.

2. Eligibility and criterion for admission for the BBA-IEV

A. Eligibility

- (i) The candidate must have scored at least 50% marks in 12th board examination from a recognised board. Vocational/Skill-based courses (as specified in the CBSE list) will also be permitted to be included in the final percentage to be used for determining eligibility.
- (ii) Must necessarily be part of a team which has been awarded a position amongst the top ranking teams (acceptable ranking or performance for admission eligibility as specified by relevant authority), in the Business Blaster's Competition.
- (iii) Those who are appearing in the qualifying Std. XII (Board) examination may also apply, provided that they submit the proof of eligibility by a specific date declared by the University.

B. Admission criteria for BBA-IEV.

The merit list is proposed to be drawn on the basis of the following Two components:

- (i) Weightage of fifty percent (50%) in the final merit list calculation, will be given to the component "Indexed Score of the rank achieved in the Business Blasters competition)" wherein the rank obtained by the student in the Business Blaster program for all students will be used to calculate, based on total Ranks in the ranking list of eligible candidates, an index score, which will be used for determining the score for this component out of total of 50 marks.
- (ii) The weightage of 50% (fifty percent) will be assigned to the component of "Personal Interview" based on Venture Ideation and Development, and overall fitness of candidate for the program. A duly constituted panel will conduct interviews of all candidates selected for interviews to the BBA-IEV track by the admission committee.
- (iii) They will assign marks out of a total of 50 marks based on candidates' suitability.
- (iv) The total score of 100 will be used for determining the merit list of candidates.
- (v) To resolve and determine inter-se merit of candidates having same score out of 100 from above two components, the following will be given preference:
 - a. Candidates date of birth will be considered. Elder candidate will be given preference.
 - b. Candidate with higher rank in Business Blasters' program will be given preference if the above date of birth criterion also results in a tie.

3. Program Structure

(i) It is proposed that the University shall offer BBA-IEV IEV program, as a Three-year duration BBA -IEV degree program with Option of four-year program for BBA (Honours) IEV Degree, on completing which they would be eligible for and have an option to apply for, direct admission to at least 15 specifically allocated seats in the Final Year of the MBA-IEV program offered by the University, in the form of an Integrated MBA-IEV program. The admission to the MBA IEV program

would be based on their position in the separate merit list of such direct applicants, where merit would be determined based on their CGPA in the Four Year program CGPA.

(ii) A BBA -IEV student shall be required to earn a minimum number of credits through various curricular components like teaching/laboratory/studio courses, seminar, industrial training, project, MOOCs, workshops etc. at the University or at such other institutions/industry as have been approved by the University.

(iv) A BBA-IEV student shall be required to complete all the requirements for the award of the Bachelor of Business Administration degree within such period as may be specified in the Regulations, for the Three year BBA-IEV degree, the Four Year BBA (Hons) IEV or the Integrated MBA-IEV degree.

(v) A BBA-IEV student shall be required normally to attend every required component of curricular requirements, from classes, tutorials, MOOCs, workshops or mentored/guided session for the Action Learning Segment as specified by the department. However, for late registration, sickness or other such exigencies, absence may be allowed as provided for in the Regulations. In all other matters, the rules governing the BBA-IEV program, and DTU norms, as applicable and amended from time to time, would be applicable.

(vi) A B.B.A-IEV student may be granted such scholarship/ studentship/ assistantship/ stipend/funding, etc. and awarded such prizes and medals as may be specified in the Regulations in accordance with the directions of the Government of India/Government of NCT of Delhi and/or the decision of the AC/BoM.

(vii) The procedure for the withdrawal from the BBA-IEV program, re-joining the program, the award of grades and the SGPA/CGPA in the examination and all such matters as may be connected with the running of a program shall be such as may be specified in the Regulations.

(viii) The award of the Bachelor of Business Administration -IEV degree, the BBA (Hons) IEV degree and the Integrated MBA-IEV degree, to an eligible student shall be made in accordance with the procedure laid down in the Regulations and amended from time to time.

(ix) The procedure for temporarily suspending or phasing out of BBA-IEV program, shall be such, as may be laid down in the Regulations.

(x) Notwithstanding anything contained in the above, no Regulations shall be made in contravention of the decision of the AC/BoM in regard to the duration of the program, the number of studentships, the procedure of admission and the percentage of students of various categories, viz. reserved (SC, ST, OBC, PD, NRI, FN, PIO) and unreserved categories. The Regulations for the Bachelor of Business Administration- IEV program can be modified / amended from time to time and the same shall be approved by the AC and the BoM.

(xi) In special circumstances, the Chairman of the BoM may, on behalf of the BoM, approve amendment, modification, insertion or deletion of an ordinance(s), which in his opinion is necessary or expedient for the smooth running of a program, provided that all such changes shall be reported to the BoM in its next meeting for ratification.

4. Program Curricular Structure

The proposed curriculum for the BBA-IEV Track leading to Three year BBA-IEV degree and Four year BBA(Hons) IEV degree, is as follows:

Table 1. Credits of Different Curricular Components

CURRICULAR COMPONENTS		Credits: III Yr. Program	Credits: IV Yr. Program
(a) Departmental Core Courses (DCC)		44	44
i)	Core Courses	44	44
b) Action Learning/Project Courses (AEC)		30	50
i)	ALS	16	26
ii)	Capstone Project	14	14
c) Departmental Elective Courses (DEC/MOOCs)		50	46
i)	Departmental Elective Courses/AEC	8*	16
ii)	MOOCs	36/44	28
d) Research Based courses/ Thesis /Dissertation		-	20
GRAND TOTAL		124	164

DECs are optional for III Yr. Program students in Semester 6; MOOCs can be opted instead for equal credit.

DECs are mandatory for IV Yr. program students in Semester 6.

Semester-wise Course Structure for B. B.A. IEV Program

L	Lecture	T	Tutorial	P	Practical
CWS	Class Work Sessional	PRS	Practical Sessional	MTE	Mid Term Examination
ETE	End Term Examination	PRE	Practical Examination	MOOC	Massive Open Online Courses
DEC	Departmental Elective Courses	OEC	Open Elective Courses	DCC	Departmental Core Course
AEC	Ability Enhancement Course	EME	End Module Exam	CMS	Class Module Sessional

First Year: First Semester

S.No	Course		Discipline	Credits	Contact Hours			Relative Weights				
	Code	Title			L	T	P	CWS	PRS / CMS	MT E	ETE / EME	PRE
1	BBA 101	Principles of Management	DCC	4	4	-	-	25	-	25	50	-
2	BBA 102	Business Mathematics	DCC	4	4	-	-	25	-	25	50	-
3	BBA 103	Financial Accounting	DCC	4	4	-	-	25	-	25	50	-
4	BBA MC101	Business Economics	MOOCs	4	4	-	-		40		60	
5	BBA 105	Computer Applications	AEC	4	2	1	2	15	25	20	40	-
7	BBA 303	Entrepreneurship Development	DCC	4	4	0	0	25	-	25	50	
			Credits	24	22	1	6					

First Year: Second Semester

S.No	Course		Discipline	Credits	Contact Hours			Relative Weights				
	Code	Title			L	T	P	CWS	PR S/ C MS	MT E	ETE/ EME	P R E
1	BBA MC111	Demand forecasting/ Opportunity mapping	MOOCs	2	4	-	-		40		60	
2	BBA 112	Business Statistics & Operations Research	DCC	4	4	-	-	25	-	25	50	
3	BBAMC112	Managing Innovation	MOOCs	2	2	-	-		40		60	
	BBAMC113	New Product Development	MOOCs	2	2	0	0		40		60	
4	BBA 114	E-Commerce	DCC	4	2	1	2	15	15	20	50	
5	BBA 115	Business Communication	DCC	2	2	-	-	25	-	25	50	

7	BBA117	Capstone 1	Project Work	4	0	0	8		40			60
				20	16	0	10					

Second year: Third Semester

S.No	Course		Discipline	Credits	Contact Hours			Relative Weights				
	Code	Title			L	T	P	CWS	PRS/CM S	MT E	ETE / EM E	PR E
1	BBA MC201	Leadership/ Organisational dynamics/ Entrepreneurial leadership	MOOCS	2	2	-	-		40		60	
	BBA MC202	Managing teams	MOOCS	2	2	-	-		40		60	
2	BBA 202	Marketing Management	DCC	2	2	-	-	25	-	25	50	-
3	BBA MC203	Business Ethics and Corporate Social Responsibility	MOOCs	2	2	-	-					
4	BBA 204	Management Accounting	DCC	4	4	-	-	25	-	25	50	-
	BBA MC204	Sales and Distribution Management	MOOCs	2	2	0	0		40		60	
5	BBA MC205	Design Thinking	MOOCS	2	2	-	-		40		60	
6	BBA 208	CAPSTONE 2	Project work	4	-	-	8		40			60
				20	16	0	8					

Second year: Fourth Semester

S.No	Course		Discipline	Credits	Contact Hours			Relative Weights				
	Code	Title			L	T	P	CWS	PR S C	MT E	ET E E	PR E

									M S		M E	
1	BBA MC212	Strategic Management	MOOCs	2	2	0	0		40		60	
2	BBA 113	Business Laws	DCC	4	4	-	-	25	-	25	50	-
3	BBA MC 213	Financial Management	DCC	4	4	-	-		40		60	
4	BBA MC 214	Start-up Law/Regulatory environment	MOOCs/Workshop Mode*	2	2	-	-		40		60	
5	BBA 214	Management Information and Decision Support Systems	MOOCs/Workshop Mode*	4	4	-	-	25	-	25	50	-
6	BBA 215	Capstone 3	Project Work	6		-	12		40	-		60
				22	18	0	12					

* Workshop: One credit =1 hour per week for entire semester, or a total of 14 hours in one semester.

Third year: Fifth Semester

At the beginning of the Third Year, Student must indicate option of Three Year or Four Year program.

S.No	Course		Credits	Contact Hours			Relative Weights				
	Code	Title		L	T	P	CWS	PR S/ C M S	MT E	ET E/ E M E	PR E
1	BBA 301	Income-tax Law and Practice	DCC	4			25	-	25	50	-
2	BBA 302	Venture Financing	MOOCs/Workshop Mode	2			25	-	25	50	-
4	BBA 304	ALS1*	Project work	6				40			60
5@	BBA XXX/ BBA 305-308 (MOOCs)	Discipline Specific Elective/ MOOCs	DSE/ MOOCs	2 DSE=8 Or 4 MOOCs = 8/Or any combination.	8	-	-	As per norms	-		

6 [#]	BBA XXX/	Discipline Specific Elective	DSE	2 DSE=8	8	-	25		25	50	
			Total	20	16/ 16 [#]	20					

@ Only for those opting for Three Year BBA-IEV program.

Only for Those students opting for Four year Program. This is in place of courses mentioned in Serial No. 5 above.

Third Year: Sixth Semester

S. No	Course		Discipline	Credits	Contact Hours			Relative Weights				
	Code	Title			L	T	P	CW S	PR S/ C M S	MT E	ET E/ E M E	PR E
1	BB A 311	Measuring and managing performance of new ventures	Workshops	4	4	-	-	25	-	25	50	-
2	BB A 313	ALS2 ^{\$}	Project work	10/6 ^{\$}		-	20/12		40	-		60
3	BB A 314	Discipline Specific Elective/ MOOCs	DEC/ MOOCs	4/2+2	4	-	-	As per norms for chosen component.				
4 ^{\$}	BB A 315 ^{\$}	Discipline Specific Elective ^{\$}	DEC	4 ^{\$}	4			25		25	50	
				18/22	8/12 ^{\$}		20/12 ^{\$}					

\$: Sr, No 4 is Mandatory Option for those opting for Four Year Program, in lieu of Sr. No 3; Credit in other courses, as indicated by \$ is for Four Year Program Students.

Four Year Program: Fourth Year Curricular Structure

Seventh Semester

S.No	Course		Discipline	Credits	Contact Hours			Relative Weights				
	Code	Title			L	T	P	CW S	PR S/ C M S	MT E	ET E/ E M E	PR E

1	BBA 401	Researching Venture Growth- 1	Dissertation 1	10					40			60
2	BBA 313	ALS3	Project work	10		-	20		40	-		60
				20								

1. Can be guided by industry expert/external experts.

Fourth Year: Eighth Semester

S.No	Course		Discipline	Credits	Contact Hours			Relative Weights				
	Code	Title			L	T	P	CW S	PR S/ C M S	MT E	ET E/ E M E	PR E
1	BBA 401	Researching Venture Growth -2	Dissertation 2	10					40			60
2	BBA 313	ALS4	Project work	10		-	20		40	-	60	60
				20								

DISCIPLINE SPECIFIC ELECTIVE COURSE: A Student of BBA-IEV would be free to choose any papers from group that is on offer as per the DTU norms (with minimum of 20 students from BBA-IEV subscribing the elective) or being currently offered in any semester in the regular BBA program.

S. No.	DSE - I (Finance) BBA	DSE - II (Marketing)	DSE - III (Human Resource)	DSE - IV (Management of Global Business)
1.	International Finance	Consumer Behaviour	HRD: Systems & Strategies	International Trade Policy & Strategy
2	Investment Banking & Financial Services	Personal Selling & Sales Force Management	Training & Development	Global Business Environment
3	Investment Analysis & Portfolio Management	Integrated Marketing Communications	Management of Industrial Relations	Transnational & Cross Cultural Marketing
4	Project Appraisal	Retail Management	Performance & Compensation Management	International Distribution & Supply Chain Management

5	Business Analysis & Valuation	Distribution & Supply Chain Management	Counselling & Negotiation Skills for Managers	International Accounting & Reporting System
6	Financial Modelling & Derivatives	Marketing of Services	Cross Cultural HRM	Multinational Business Finance
7	Strategic Corporate Finance	International Marketing	Talent & Knowledge Management	International Joint Ventures, Mergers & Acquisitions
		Strategic Brand Management		

5. REGULATIONS

The students of the program will be governed by the Regulation R1 (B) which is applicable to all UG and PG programs offered by the University. Specific modifications for the program as approved from time to time will be followed accordingly as per the change intimated.

Modified Guidelines for Setting Good Quality Question Papers



Delhi Technological University, Delhi

Introduction

National education policy 2020 lays emphasis on the development of the cognitive capacities - both the 'foundational capacities' of literacy and numeracy and 'higher-order' cognitive capacities, such as critical thinking and problem solving, along with social, ethical, and emotional capacities and dispositions.

It is widely acknowledged that "*assessment drives learning*", that is "*what and how students learn depends to a major extent on how they think they will be assessed*". Thus, it is necessary that the assessment plan for each course is aligned with learning outcomes of the course and level of learning student is expected to achieve. The guidelines were framed for improving the quality of assessment and setting a good quality question paper. However, a slight modification may be required to adopt these guidelines for specific courses. Moreover, it should be noted that only written examinations may not be appropriate for the assessment of the all the outcomes and cognitive levels for a course. Other methods such as course project, minor project, major projects, capstone projects etc. are used to assessment of higher order learning levels (as per Bloom's learning levels). Thus, it should be identified that which topic of the syllabus (of a course) is contributing in achieving to a particular course outcome (CO) and which learning level (L) is involved.

L1: Remembering

L2: Understanding

L3: Applying

L4: Analysing

L5: Evaluating

L6: Creating

Moreover, the method of assessment for each CO should be identified. Table 1 gives a method for alignment of COs with the syllabus of a course-topics ($t_1, t_2, t_3, t_4, \dots$). One topic may contribute to more than one CO. Further, the weightage of each course outcome (CO) for assessment through written exams should be assigned by course coordinator/subject expert, and should be approved by Board of Studies (BOS) of respective department.

NOTE: In general, the overall weightage of CO (desired) $W_{CO,d}$ for written examinations should be in proportion to CO-PO correlation (PO: Program Outcome) by considering CO related to written examination. That is weightage of a CO in the written examination should be in proportion to whether it has High (3), Moderate (2), or Low (1) correlation with POs. However, there may be deviation in the weightage as the assessment of a CO may involve other methods along with written examination.

Table 1: CO-Syllabus alignment

Course Outcomes (COs)	Topics (Contributing to achieve a CO)	Method of Assessment	Level of learning	Overall weightage for written exams (Desired) : $W_{CO,d}$
CO1	$t_1, t_2, t_6, t_9, \dots$	Written Exam, Projects	L ₂ , L ₃ , L ₆	$W_{CO1,d} = 15\%$
CO2	$t_2, t_3, t_4, t_{11}, \dots$	Written Exams	L ₂ , L ₃ , L ₄	$W_{CO2,d} = 25\%$
CO3	$t_4, t_5, t_6, t_{20}, \dots$	Projects	L ₅ , L ₆	$W_{CO3,d} = 0\%$
CO4	$t_1, t_{17}, t_{19}, \dots$	Written Exams	L ₃ , L ₄	$W_{CO4,d} = 30\%$

Note that values in the above table are for demonstration purpose only. Actual values shall be assigned by course coordinator and approved by BOS. Moreover, overall weightages of CO in written exams will be different for Quizzes, Mid Term, and End Term Examinations.

- The question paper shall clearly indicate associated CO and Learning level (L) against each question (sub-part of the question) along with marks.
- The question paper shall be evaluated on the basis of coverage of syllabus, level of difficulty, learning level, alignment of questions with COs, and choice in attempt.

The summary of these guidelines is given in the following Table.

Table 2: Criterion for TES calculation

S. No.	Criterion	Weightage	Score*	Weighted Score
1.	Coverage of Syllabus	0.2	A	$0.2 \times A$
2.	Level of difficulty	0.3	B	$0.3 \times B$
3.	Order of learning level	0.2	C	$0.2 \times C$
4.	Alignment of questions with COs	0.2	D	$0.2 \times D$
5.	Choice in Attempt	0.1	E	$0.1 \times E$
			TOTAL	TES

The total evaluation score (TES) shall be calculated using the following formula:

$$TES = 0.2 \times A + 0.3 \times B + 0.2 \times C + 0.2 \times D + 0.1 \times E$$

An adherence index (AI) of the question paper is computed that indicates adherence to guidelines. The AI is given as:

$$AI = 1 - \left(\frac{TES}{Max. Marks (M)} \right)$$

*Note: To compute score of a question paper, use data sheet given in the following section.

- Coverage of Syllabus (A):** 35%-40% of the syllabus should be completed till Mid Term Examination, and remaining 60-65% of the syllabus should be completed before the last day of teaching.
 - Question paper of the Mid Term Examination should be uniformly distributed over the syllabus.

- b. Question paper of the End Semester Examination should carry 20-25% weightage from Syllabus-I and 75-80% weightage from Syllabus-II. For example, a question paper of total marks 50, should carry 10 marks questions from Syllabus-I and 40 marks questions from Syllabus-II.

NOTE:

For the illustrations in this document, contact hours prescribed in the syllabus for different COs are unequal. Thus, to arrive at the **desired allocation** of marks for different COs of the syllabus, the weightages for each CO shall be calculated using marks per contact hours (α). Marks per contact hour would be different for syllabus covered till Mid-Term exam. The same is illustrated below.

H: Total contact hours as per syllabus

T: Total Marks (including choices)

$$\rho = T/H$$

Table 3: Marks per contact hour

S. No.	Syllabus	Contact Hours	Marks	Marks per Contact hour
1.	Syllabus I	$0.4 \times H$	$0.2 \times T$	$\alpha_1 = \frac{1}{2}\rho$
2.	Syllabus	$0.6 \times H$	$0.8 \times T$	$\alpha_2 = \frac{4}{3}\rho$

Example: Consider a subject CO-203, H = 42, Syllabus-I = 16 hours, Syllabus-II = 26 hours.

MID Term Examination: Total Marks should be uniformly distributed over unit covered in Syllabus-I

END Term Examination:

Let a question paper is set of total marks (T) = 48,

$$\rho = \frac{8}{7}, \alpha_1 = \frac{4}{7}, \alpha_2 = \frac{32}{21}$$

Desired distribution of the Marks for a course with five COs is shown in the following table:

Table 4: Unit/Topic wise marks distribution

S. No.	Units/Topics	Contact Hours	Desired Marks distribution
1.	I / (t_{11}, t_{12}, \dots)	8	$\alpha_1 \times 8 = 5$
2.	II / (t_{13}, t_{14}, \dots)	8	$\alpha_1 \times 8 = 5$
3.	III / (t_{32}, t_{33}, \dots)	10	$\alpha_2 \times 10 = 15$
4.	IV / (t_{43}, t_{44}, \dots)	10	$\alpha_2 \times 10 = 15$
5.	V / (t_{51}, t_{52}, \dots)	6	$\alpha_2 \times 6 = 8$
Total		42	48

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2. Level of difficulty (B): The question paper should have questions with different difficulty levels viz. easy, moderate, and difficult.

- Easy 25% (approx.)
- Moderate 40% (approx.)
- Difficult 35% (approx.)

3. Learning Level (C): Most of the questions in the question paper should be based on varying order of learning levels viz. revised Bloom's taxonomy as per following details:

- L2 Understand 30%
- L3 Application 40%
- L4 Analyse, L5 Evaluate 30% (approx.)

Note:

- Action verbs for the different level of learning are given in Appendix-I.
- The order of learning levels (L_1, L_2, L_3, \dots) may vary from course to course. Thus, the deviation from above limits of learning level should be assigned by course coordinator and approved by the BOS of the respective department.

4. Alignment of questions with Course Outcomes (COs) (D): Questions in a question paper should be properly aligned to COs (related to written exam). The weightage of each CO in a written exam is obtained from Table 1. The marks allocated to each CO (desired) should be in the same proportion as weightage of CO in Table 1. For example, let T_{CO} is total marks in a question paper (explained below) then

$$\text{Marks allocated to CO1 (desired)} = (T_{CO} \times W_{CO1_d})/100$$

Note: A question may be associated with more than one CO. Thus, for the purpose calculation of marks allocated to a CO, marks assigned to a question (part of question) shall be counted multiple times. For example, question 2(a), of 3 marks, may be associated with CO2, and CO4. Then 3 marks will be counted for CO2 as well as CO3. The marks allocated (actual) to each CO (related to written examination) should be calculated in above manner. Finally, total marks in a question paper T_{CO} is obtained by adding marks allocated to each CO (actual).

5. Choice in attempt (E): There shall be no choice in Mid Term Examination. The question paper for End Term Examination may have choice of not more than 20%.

A question paper should fulfil all the above requirements. But, still in order to evaluate question paper according to the said requirements, numerical values should be assigned to all these aspects. A criterion for evaluating the quality of question papers has been developed by the Committee, which is explained and illustrated with the help of some question papers.

Data sheet for Evaluation of the Question Paper

M = Maximum Marks; **T** = Total Marks; and **T_o** = **M**/ 0.8

1. Coverage of COs (A):

CO	Related Question(s)	Marks Allocated		Evaluation Score
		Desired (d)	Actual (a)	d-a
1				
2				
3				
4				
5				
Score (A)				

2. Level of difficulty (B):

Level	Related Question(s)	Marks Allocated		Evaluation Score
		Desired (d)	Actual (a)	d-a
Easy				
Moderate				
Difficult				
Score (B)				

3. Learning level (C):

Learning level	Related Question(s)	Marks Allocated		Evaluation Score
		Desired (d)	Actual (a)	d-a
L2				
L3				
L4,L5,L6				
Score (C)				

4. Alignment of questions with COs (D):

COs (Related to written examination)	Related Question(s)	Marks Allocated		Evaluation Score
		Desired (d)	Actual (a)	d-a
CO1				
CO2				
CO4				
Score (C)				

Note: Desired (d) and actual marks (a) allocation to COs should be calculated as explained in point 4.

5. Choice in attempt (E):

$$T_0 = \frac{M}{0.8}$$

$$\text{Score}(\mathbf{E}) = \begin{cases} 0, & \text{if } T \leq T_0 \\ T - T_0, & \text{else} \end{cases}$$

➤ Total Evaluation Score (TES) = 0.2 A + 0.3 B + 0.3C + 0.1 D + 0.1 E

➤ Adherence Index (AI) = $1 - \left(\frac{TES}{\text{Max. Marks}(\mathbf{M})} \right)$

Appendix – 1

Level	Skill Demonstrated	Question cues/Verbs for tests
1. Remember	<ul style="list-style-type: none"> • Ability to recall of information like facts, conventions, definitions, jargon, technical terms, classifications, categories and criteria • ability to recall methodology and procedures, abstractions, principles and theories in the field • knowledge of dates, events, places • Mastery of subject matter 	List, define, tell describe, recite, recall, identify, show, label, tabulate, quote, name, who, when, where
2. Understand	<ul style="list-style-type: none"> • understanding information • grasp meaning • translate knowledge into new context • Interpret facts, compare, contrast • order, group, inter causes • predict consequences 	Describe, explain, paraphrase, restate, associate, contrast summarize, differentiate interpret, discuss
3. Apply	<ul style="list-style-type: none"> • use information • use methods, concepts, laws, theories in new situations • solve problems using required skills or knowledge • Demonstrating correct usage of a method or procedure 	Calculate, predict, apply, solve, illustrate, use, demonstrate determine, model, experiment, show, examine, modify
4. Analyse	<ul style="list-style-type: none"> • break down a complex problem into parts • Identify the relationship and interaction between the different parts of a complex problem • identify the missing information, sometimes the redundant information and the contradictory information, if any 	Classify, outline, break down, categorize, analyze, diagram, illustrate, inter, select
5. Evaluate	<ul style="list-style-type: none"> • compare and discriminate between ideas • assess value of theories, presentations • make choices based on reasoned argument • verify value of evidence • Recognize subjectivity • Use of definite criteria for judgements 	Assess, decide, choose, rank, grade, test, measure, defend, recommend, convince, select, judge, support, conclude, argue, justify, compare, summarize, evaluate
6. Create	<ul style="list-style-type: none"> • use old ideas to create new ones • Combine parts to make (new) whole • generalize from given facts • relate knowledge from several areas • predict, draw conclusions 	Design, formulate, build, invent, create, compose, generate, derive, modify, develop, integrate



32.35 62

DELHI TECHNOLOGICAL UNIVERSITY
(Established by Govt. of Delhi vide Act 6 of 2009)
(formerly Delhi College of Engineering)
East Delhi Campus
Vivek Vihar, Phase-II, Delhi-110095

F.No.

Dated: 04.05.2022

Subject: Minutes of Meeting (Admission to Master of Arts (Economics) Programme)

Academic Council advised the formation of a committee for reviewing the eligibility and admission criterion for Master of Arts (Economics) program and the program objectives of Bachelor of Arts (Hon.) Economics program USME, DTU. The duly appointed committee of experts met was on 06th January 2022 at 3:30 PM in online mode.

The following members were present

1. Prof. Amit Mookerjee, HoD, USME
2. Prof. Nand Kumar, HoD, Humanities
3. Prof. Rajan Yadav, DSM
4. Prof. S. K. Jain
5. Dr. Rajesh Chadha, Senior Fellow, CSEP
6. Prof. Ravi Shankar, IIFT, Delhi

Subcommittee has recommended the following:-

1. Committee recommended that the Eligibility criteria for admission of Master of Arts (Economics) programme should include graduates from all disciplines to be eligible, provided they have a minimum of 50% in their graduation or equivalent CGPA. Candidates in final year of graduation are also eligible to apply.
2. It was further recommended that Admission to the MA Economics Program will be made based on the performance in an Entrance Test.
3. There should be Two Entrance Tests, One will include the section on economics, Second Test will be on Quantitative skills. Student will have option to choose either test.
4. A minimum cut off will be determined as pass percentage in the admission test, for eligibility for admission in the program, with appropriate relaxation for candidates from various categories. Tie break system should announced before hand.
5. Candidates will be chosen based on merit determined by the marks obtained in the entrance test; list of admitted candidates will be drawn up based on quota as per norms.

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6. The programme objectives of BA (H) Eco programme were modified as follows
PO, PEO, PSO.

1. The Program Outcomes/Program Learning Outcomes are as follows.

The Economics Graduates will:

- (i) PO 1: Grasp the knowledge of economic fundamentals.
- (ii) PO 2: Develop the ability to identify current economic issues, review and analyze relevant literature
- (iii) PO 3: Imbibe the ability to comprehend both theoretical and empirical models for analyzing various socio-economic problems.
- (iv) PO 4: Develop sensitivity to societal concerns and understand various socio-economic problems and be able to work towards development of sustainable solutions
- (v) PO 5: Acquire ability to apply mathematical/econometric methods for measurement of economic problems and their interpretation
- (vi) PO 6: Acquire managerial and communication skills

2. Program Educational Objectives

- (i) PEO 1: To acquire knowledge of basic principles of economics and understanding of rational decision making by economic agents.
- (ii) PEO 2: To develop critical, analytical and measurable approach towards problems of the economy, government and society.
- (iii) PEO 3: To develop mathematical, statistical, programming and analytical skills.
- (iv) PEO 4: To gain effective communication, interpersonal skill, motivational attitude as well as decision making and leadership skills.
- (v) PEO 5: To inculcate social perspective on equity and inclusiveness.

3. Program Specific Outcomes (PSOs)

- (i) The Economics Graduate will:
- (ii) PSO 1: Demonstrate knowledge of theoretical and applied economics
- (iii) PSO 2: Exhibit business economics and analytical skills.
- (iv) PSO3: Specialize in application of economics principles and methods, in various fields of Economics.
- (v) PSO 4: Able to understand theoretical and empirical economic models and their applications.

Submitted for kind approval please.

— 23 —

(Prof. Amit Mookerjee)
HoD, (USME)
DTU