

# APPENDIX-1

## Norms for Duration, Entry Level Qualifications and Statutory Reservations of the Technical Programmes

- i) To make the students employable after every exit, the skill component with progressive enhancement in skills in respective disciplines may be introduced in the curriculum right from the 1<sup>st</sup> year of the program by the concerned regulatory body/ University/ Technical Board, as the case may be.

While allowing exit at the end of first year, institutes may prescribe mandatory skill course module on Technical Communication and Computer Proficiency (Data Entry etc.), Civil / Mechanical Draughtmanship, Electrical maintenance etc.

Sr. No	Academic Level	Entry Level Qualifications	Qualifications at Exit	NCrF Level
1	10 <sup>th</sup> Std.		10 <sup>th</sup> Standard	3.0
2	11 <sup>th</sup> Std. /1 <sup>st</sup> yr. of Diploma	10 <sup>th</sup> Completed	A candidate exits with 10+1 year of Diploma; Certificate of Vocation (C.Voc.)	3.5
3a	12 <sup>th</sup> Std.	Passed 11 <sup>th</sup> std.	12 <sup>th</sup> Standard	4.0
3b	2 <sup>nd</sup> yr. of Diploma	A candidate completing 10+1 year of Diploma (C. Voc.) or equivalent vocational training with level 3.5 or passed 12 <sup>th</sup> std.	A candidate exits with 10+2 years with Diploma of Vocation	4.0
4a	Third yr. of Diploma	A candidate completing 10+2 years with Diploma of Vocation or equivalent vocational training with level 4	Diploma Engg.	4.5
4b	1 <sup>st</sup> yr. of UG Degree	A candidate completing 10+2 years with Diploma of Vocation or passed 12 <sup>th</sup> std. or equivalent vocational training with level 4	UG Certificate	4.5
5	2 <sup>nd</sup> yr. of UG Degree	A candidate with Diploma in appropriate branch of Engineering/ UG Certificate/ Equivalent Vocational or Technical Program level 4.5	UG Diploma (Engg.)	5.0
6	3 <sup>rd</sup> yr. of UG Degree	A candidate with 10+3+1/12+2/ UG Diploma (Engg.) in appropriate domain with level 5	B.Voc./ B.Sc (Engg.)/ UG Degree	5.5
7	Final yr. of UG Degree	A candidate with 3 yrs. Bachelor degree in Vocation / B.Sc (Engg.)/ UG Degree with level 5.5	B.E./B. Tech./ UG Degree (Hons.)	6.0
8	1 <sup>st</sup> yr. of PG Degree	A candidate with 4 yrs. Bachelor( level 6.00)	PG Diploma / M.Voc	6.5
9	Final Year of PG Degree	1 year of PG Degree/ PG Diploma/ M.Voc(Level 6.5) in appropriate domain	M Tech/ PG Degree (Engg.)/ PG Degree	7.0
10	Ph.D/ Fellow Program	B.Tech. with 75% Marks or equivalent CGPA/ PG		8.0

National Credit Framework(NCrF) for UG & PG Courses in Engineering Students who exit after 2nd year of B.Tech. course must undergo skill modules on IT/Hardware Networking / METLAB or Branch specific skill module.

Course structure at 3rd year and 4th year of B.Tech. is already Engineering specific, students who exit after 3-years may be awarded UG Degree/ B. Voc/ B.Sc(Engg.).

ii) For Diploma students who exit after 1st year, Certificate of Vocation (C.Voc.) and who exit after 2nd year Industrial Training Certificate(ITC)/ Diploma of Vocation may be awarded.

At each entry level, Institution/ University has to identify the educational gaps/ skill gaps and suitable bridge courses may be offered.

## Diploma Course:

Sl. No.	Programme	Duration	Eligibility	NCrF Level
I	Engineering and Technology	3 -years	Passed 10 <sup>th</sup> Std./ SSC examination	3.0
li	Applied Arts and Crafts	3 Years	Passed 10 <sup>th</sup> Std./ SSC examination	3.0
lii	Design	3 years	Passed 10 <sup>th</sup> Std./ SSC examination	3.0
Iv	Hotel Management and Catering Technology	3 years	Passed 10+2 examination	4.0
		5 years	Passed 10 <sup>th</sup> Std./ SSC examination	3.0
V	All Programmes (Lateral Entry to Second Year Diploma)	2 years	<p>Passed 10+2 examination with Physics/ Mathematics / Chemistry/ Computer Science/ Electronics/Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/ Entrepreneurship as per table 1.3(a).</p> <p>Or</p> <p>10<sup>th</sup> + 2 year ITI shall be eligible for admission to Second Year Diploma Course(s) in Any branch of Engineering and Technology.</p> <p>(The Affiliating Body will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the programme)</p>	4.0

## 1.2 Post Diploma

Sl. No.	Programme	Duration	Eligibility
1	Engineering and Technology	18 Months or 2 years	Passed Diploma examination with at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.

### 1.3 Under Graduate Degree

Sl. No.	Programme	Duration	Eligibility	NCrf Level
I	Engineering and Technology#	4 years	<p>Passed 10+2 examination with Physics/ Mathematics/ Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/ Entrepreneurship as per table 1.3(a)</p> <p>Agriculture stream (for Agriculture Engineering)</p> <p>Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.</p> <p>OR</p> <p>Passed D.Voc. Stream in the same or allied sector.</p> <p>(The Universities will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to prepare Level playing field and desired learning outcomes of the programme)</p>	4.0
li	Planning	4 years	<p>Passed 10+2 examination with eligibility as per table 1.3(a)</p> <p>Obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the qualifying Examination.</p> <p>OR</p> <p>Passed D.Voc. Stream in the same or allied sector.</p>	4.0
lii	Applied Arts and Crafts	4 years	<p>Passed 10+2 examination</p> <p>Obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the qualifying Examination.</p> <p>OR</p> <p>Passed D.Voc. Stream in the same or allied sector.</p>	4.0
Iv	Design	4 years	<p>Passed 10+2 examination</p> <p>Obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the qualifying Examination.</p> <p>OR</p> <p>Passed D.Voc. Stream in the same or allied sector.</p>	4.0
V	Hotel Management and Catering Technology	4 years	<p>Passed 10+2 examination</p> <p>Obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the qualifying Examination.</p> <p>OR</p> <p>Passed D.Voc. Stream in the same or allied sector.</p>	4.0



Vi	Engineering and Technology (Lateral Entry to Second year)	3 years	<p>Passed Minimum 3-years / 2-Years (Lateral Entry) Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category).</p> <p>OR</p> <p>Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% marks in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject.</p> <p>(The Universities will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the program)</p> <p>Refer table 1.10 of Appendix-1</p>	4.5
Vii	Engineering and Technology (Lateral Entry to Third year)#	2 years	UG Diploma in Engg.	5.0
Viii	Engineering and Technology (Lateral Entry to Final year)#	1 year	B.Voc. in relevant discipline	5.5
Ix	All Programmes Other than Engineering and Technology/ Planning/ Design	Lateral Entry to Second year	Passed Minimum 3-years / 2-years (Lateral Entry) Diploma examination in a Programme with at least 45% marks (40% marks in case of candidates belonging to reserved category) in appropriate Programme.	4.5

**NOTE:** Admission of B.Tech/B E graduates, in other branches of Engineering as an additional degree through Lateral Entry will be facilitated by the respective Technical Universities by allowing them to take admission at appropriate level of B.Tech/B.E. discipline/branch of Engineering. [Refer AICTE circular No. F.No. AICTE/P&AP/ Misc/2020 dated 09.08.2021]

### 1.3(a) Diploma/Under Graduate Engineering Entry level qualification 10+2 level

Sr. No.	Major Disciplines	Mandatory Courses at 10+2 Level	Other relevant Course(s) for this discipline
1	Aeronautical Engineering	Phy, Chem, Maths	NA
2	Agriculture Engineering**	Phy, Chem OR Agriculture stream	Maths/Biology/Biotechnology/Agriculture/ Agriculture stream
3	Architecture	As per Norms of Council of Architecture ( CoA )	
4	Planning	Maths	For remaining two courses select any courses out of 14 <sup>#</sup>
5	Biotechnology**	Phy, Chem	Select any one from Bio/Biotechnology/Maths
6	Ceramic Engineering	Phy, Chem, Maths	NA
7	Civil Engineering	Phy, Chem, Maths	NA
8	Computer Science and Engineering	Phy, Maths	For remaining single course select any courses out of 14 <sup>#</sup>
9	Chemical Engineering	Phy, Chem, Maths	NA
10	Dairy Engineering	Phy, Chem, Maths	NA
11	Electrical Engineering	Phy, Maths	For remaining single course select any courses out of 14 <sup>#</sup>
12	Energy Engineering	Phy, Chem, Maths	NA
13	Electronics Engineering	Phy, Maths	For remaining single course select any courses out of 14 <sup>#</sup>
14	Mechanical Engineering	Phy, Chem, Maths	NA
15	Fire and Safety Engineering	Phy, Chem, Maths	NA
16	Food Engineering	Chem	For remaining two courses select any courses out of 14 <sup>#</sup>
17	Leather Technology	Chem	For remaining two courses select any courses out of 14 <sup>#</sup>
18	Marine Engineering	Phy, Chem, Maths	NA
19	Metallurgy Engineering	Phy, Chem, Maths	NA
20	Military Engineering	Phy, Chem, Maths	NA
21	Mining Engineering	Phy, Chem, Maths	NA
22	Nano Technology	Phy, Chem, Maths	NA
23	Nuclear Science and Technology	Phy, Chem, Maths	NA
24	Packaging Technology	Nil	Select any courses out of 14 <sup>#</sup>
25	Pharmaceutical Engineering**	Phy, Chem	Select any one from Bio/Biotechnology/Maths
26	Printing Engineering**	Phy, Chem	For remaining single course select any courses out of 14 <sup>#</sup>
27	Textile Engineering	Phy, Chem, Maths	NA
28	Fashion Technology	Nil	Select any courses out of 14 <sup>#</sup>
29	Textile Chemistry	Chem	For remaining two courses select any courses out of 14 <sup>#</sup>

\*\* First one or two Semesters may be so designed that students with Biology/Biotechnology background have adequate courses on Maths and Vice Versa and then the class is at level studying field for the rest of the semesters.

#Physics/ Mathematics / Chemistry/ Computer Science/Electronics/Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/Entrepreneurship

## 1.4 Post Graduate Diploma / Post Graduate Degree / Post Graduate Certificate

Sl. No.	Programme	Duration	Eligibility	NCrf Level
i	Engineering and Technology	2 years	Passed Bachelor's Degree or equivalent.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	6.0
ii	Engineering and Technology (Certificate)	1 year	Passed Bachelor's Degree or equivalent.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	6.0
iii	Planning	2 years	Passed Bachelor Degree in Planning/ Architecture/ Civil Engineering OR  Passed Master Degree of Geography/ Economics/ Social Sciences or equivalent Degree.	6.0
iv	Applied Arts and Crafts	2 years	Passed Bachelor Degree in Fine Arts or equivalent Degree.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	6.0
v	Design	2 years	Passed Bachelor Degree of minimum 4 years duration.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	6.0
vi	Hotel Management and Catering Technology	2 years	Passed Bachelor Degree in Hotel Management and Catering Technology/ Hotel Management of minimum 4 years duration or equivalent Degree.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	6.0
vii	Computer Application (MCA 1 <sup>st</sup> Year)	2 years	Passed any graduation degree (e.g.: B.E. / B.Tech./ B.Sc / B.Com. / B.A./ B. Voc./ BCA etc.,) preferably with Mathematics at 10+2 level or at Graduation level  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.  (for students having no Mathematics background compulsory bridge course will be framed by the respective University/ Institution and additional bridge courses related to computer subjects as per the norms of the concerned University).	5.5



viia	Computer Application [MCA Second Year (Lateral Entry)]	1 year	B Tech/B.E. ( CSE/IT) subject to availability of seats	6.0
viii	Management (MBA/MMS)	2 years	Passed Bachelor Degree of minimum 3 years duration.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	5.5
ix	Management (PGCM)	1 year	Passed Bachelor's Degree of minimum 3 years duration.  Obtained at least 50% marks (45% marks in case of Candidates belonging to reserved category) in the qualifying examination.	5.5
x	Management (PGDM)	2 years*	Passed any Bachelors Degree of minimum 3 years duration.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	5.5
		18 months	Passed any Bachelors Degree of minimum 3 years duration and a minimum of 3 years relevant managerial/ supervisory experience.  Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	5.5

\*(With exit option of PGCM after completion of 1st year subject to fulfilling the required credits) refer table 1.10 of appendix 1

## 1.5 Integrated / Dual Degree Courses

Sl. No.	Programme	Duration	Eligibility
i	Engineering and Technology	5 years	<p>Passed 10+2 examination with Physics/ Mathematics / Chemistry/ Computer Science/Electronics/Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/Entrepreneurship as per table1.3(a)</p> <p>Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.</p> <p>OR</p> <p>Passed min. 3 years Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category) subject to vacancies in the First Year, in case the vacancies at lateral entry are exhausted.</p> <p>(The Universities will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the programme).</p>
ii	Planning	5 years	<p>Passed 10+2 examination with eligibility as per table1.3(a)</p> <p>Obtained at least 45% marks (40% in case of candidates belonging to reserved category) in the qualifying examination.</p>
iii	Hotel Management and Catering Technology	5 years	<p>Passed 10+2 examination.</p> <p>Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the qualifying examination.</p>
iv	Computer Application (MCA)	5 years	<p>Passed 10+2 examination with Mathematics/ Statistics/ Accountancy as compulsory subjects.</p> <p>Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.</p>
v	Management (MBA)	5 years	<p>Passed 10+2 examination.</p> <p>Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the qualifying examination.</p>



## 1.6 Fellow Programme

Sl. No.	Programme	Duration	Eligibility
i	Fellow Programme in Management	Minimum 3 years but shall not exceed 5 years	Master's Degree or equivalent in Engineering and Technology/ Management/ Economics/ Social Science/Biological Science/ Pure Science/ Commerce/ Humanities with FIRST CLASS

## 1.7 Reservation Policy of the Central Government (Including EWS) / Respective State Government/ UT as the case shall be applicable to all the above Programmes (1.1 to 1.6)

## 1.8 The concerned State Government/ UT Admission authority shall decide Modalities of Admission

- a) The admission for Integrated/Dual Degree Course in Management shall be effected on the basis of separate merit lists of students passed in various streams at 12th Std.as,
- Science stream: 20 seats
  - Commerce stream: 20 seats
  - Arts Stream: 20 seats

In case of non – availability of students from one stream, remaining seats in that stream shall be allotted to students from other two streams on an equal basis. In case of non-availability of students from two streams, remaining seats in those streams shall be allotted to students from third-stream.

- b) In case of Integrated Hotel Management and Catering Technology, selection of the students for this Course shall be done at the start of the Second year of Bachelor's Degree. Students selected for this Course shall take additional Course in Management along with the Third Semester of the Regular Course.
- c) For integrating vocational and conventional education, the Skill Assessment Matrix for Vocational Advancement of Youth (SAMVAY) had been launched by MoE) in November, 2014. The credit framework (as per the following) is now in operation which allows lateral and vertical mobility within the vocational educational system and between current education systems. It defines the rules for credit allotment and follows the National Skills Qualification Framework.

The detailed SAMVAY document is available at: [https://www.aicte-india.org/sites/default/files/SAMVAY\\_1\\_.pdf](https://www.aicte-india.org/sites/default/files/SAMVAY_1_.pdf)

## 1.9 Open Distance Learning / Online Learning Courses

The Duration and Entry Level Qualifications for the ODL/OL Courses shall be the same as specified by UGC on the subject from time-to-time.