

**Self-Assessment Report of the existing/proposed Engg./Pharmacy/HMCT/MBA/MCA/ARCH College  
&  
INSPECTION REPORT**

*for*

**Establishment of new AICTE College / Institute**

**Introduction of AICTE approved additional course(s) in the existing AICTE College / Institute**

**Variation in Intake approved by AICTE in the existing affiliated AICTE course(s)**

**Extension (Renewal) of Affiliation in the existing AICTE approved Institution / College**

[Please give tick-mark(s) in the above appropriate box (es) by the College]

Date of Inspection:

1. COLLEGE NAME:

[ To be filled by the College ]

2. (a) COLLEGE CODE :

[To be filled by the College]

2. (b) Whether inspection held in the last Academic Year (2021-22). If yes, please enclose the copy of the Summary of Inspection Report.

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

3. Intake position of the College year-wise and course-wise :

*[N = Present Academic Year (AY) when the Institute is filling this format e.g. 2022-2023, N-1 = (2021-2022),*

*N-2 = (2020-2021) and N+1 = (2023-2024)]*

[To be filled by the College]

Existing affiliated AICTE Course(s) / Branch(es) [UG / PG] and / or Proposed AICTE Course(s) / Branch(es) [UG / PG]	Approved Intake academic year (N-2)	Approved Intake academic year (N-1)	Approved Intake present academic year (N e.g 2022-23)	Proposed Intake for academic year (N+1)	Total Intake (Course/Branch-wise)
<b>Total Intake (Year-wise)</b>					
<b>Grand Total Intake</b>					

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**4. AICTE Norms for Instructional Area (Carpet Area) in sq.mt. – Engineering / Technology (Degree Institute)**

	<b>Numbers of Rooms required</b>	<b>Carpet Area in sq.mt. per Room</b>
Class Room	Total Number of Division @ x 0.75	66/33*
Tutorial Rooms+	25% of total Classrooms	33
Laboratory (for First Year) #	4 (Which includes 2 Laboratories for Basic Sciences )	66
Laboratory (other than First Year) \$	2 per Course per Year	66
Laboratory for Post Graduate	1 per course	66
	1 Research Laboratory	66
Workshop #	1	200
Additional Laboratory / Workshop for “X” Category Courses	1	200
Computer Centre #	1	150
Drawing Hall #	1	132
Seminar Hall	1	132
Library ++	1	400
Language Laboratory +	1	66

For Courses having more than 2 Divisions, additional Laboratories equivalent to the required number on pro rata basis for the said Courses shall be created.

\*Applicable for Post Graduate Courses only.

+Language Laboratory shall have a minimum of 20 Computers with appropriate Software. Additional Laboratory required if number of Divisions > 5.

++ Additional Library area of 50 sq.mt. per 60 students beyond 420 “Approved Intake”.

“X” Category Courses such as Mechanical, Production, Civil, Electrical, Chemical, Textile, Marine, Aeronautical and Allied Courses shall require an Additional Laboratory/ Workshop.

# Drawing Hall, Computer Centers and Workshops to be created as given below:

Approved Intake	Computer Center	Workshop	Drawing Hall
Up to 600	1	1	1
601-1200	2	2	2
Infrastructure Requirement shall be calculated on pro rata basis for “Approved Intake” greater than 1200			

Additional Laboratories to be created (if required) as per Curriculum of the concerned University.

Under Graduate Laboratories if shared with Post Graduate Courses shall be upgraded to meet requirements of Post Graduate Curriculum

The Institution shall have one Smart Class Room /Course with LCD projector, Smart Board, Internet Connection, etc.  
 Seminar Hall shall have proper furnishing and equipment such as LCD projector, Smart Board, PA system and Executive chairs.  
 Institutions shall have MOOCS Facility Centre and Innovation / Fab Laboratory.

**4. (a) Availability of Instructional Area (for Engineering /Technology) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Class Rooms</b> (size 66 sq.mt each)				
<b>No. of Tutorial Rooms</b> (size 33 sq.mt. each)				
<b>No. of PG Class Rooms</b> (size 33 sq.mt. each)				
<b>No. of Laboratories</b> other than First year (size 66 sq.mt. each)				
<b>No. of Laboratory for Post Graduate Courses</b> (size 66 sq.mt.)				
<b>No. of Research Laboratory for Post Graduate</b> (size 66 sq.mt.)				
<b>No. of Work Shop</b> (size 200 sq.mt. each)				
No. of Additional Laboratory / Workshop for “X” Category Courses (size 200 sq.mt. each)				
<b>No. of Computer Centre</b> (size 150 sq.mt. each)				
<b>No. of Drawing Hall</b> (size 132 sq.mt. each)				
<b>No. of Library</b> (size 400 sq.mt. each)				
<b>No. of Language Laboratory</b> (size 66 sq.mt.)				
<b>No. of Seminar Hall</b> (size 132 sq.mt. each)				
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.		Signature of the Members of the Inspection Team	

**5. AICTE Norms for Instructional Area (Carpet Area) in sq.mt. – Pharmacy (Under Graduate/ Postgraduate Degree) Institute**

<b>Class Rooms</b>	<b>Number of Rooms required</b>	<b>Carpet Area in sq.mt. per Room</b>
Class Rooms	Total Number of Division @ X 0.75	66/75#/33**
Tutorial Rooms+	25% of total Classroom	33
Laboratory (for First Year)	4	75
Laboratory (other than First Year)	1 per Course per year	75
Laboratory for Post Graduate	1 per Specialization	75
Machine Room	1	75
Instrument Room (Second Year)	1	75
Animal House **	1	75
Computer Center inclusive of Language Laboratory	1	75
Seminar Hall	1 per Under Graduate Courses	132
Library	1	150

# 66 and 75 sq.mt for 60 and 100 intake respectively.

\*\* Applicable for Post Graduate Course Only

+ No Tutorial Rooms required for Post Graduate Courses

Language Laboratory shall have a minimum of 20 Computers with appropriate Software.

Seminar Hall may be shared, if Diploma and a Degree Pharmacy are offered in the same Institution.

For Post Graduate Programmes, Seminar Hall of respective Under Graduate Programme may be shared.

Diploma Laboratories, if shared with Under Graduate Courses shall be upgraded to meet requirements of Under Graduate Curriculum.

Under Graduate Laboratories, if shared with Post Graduate Courses shall be upgraded to meet requirements of Post Graduate Curriculum

Research Laboratory is to be provided with an area of 66 sq.mt. for each Institution offering Post Graduate Courses

The Institution shall have one Smart Class Room /Course with LCD projector, Smart Board, Internet Connection, etc.

Seminar Hall shall have proper furnishing and equipment such as LCD projector, Smart Board, PA system and Executive chairs.

Institutions shall have MOOCS Facility Centre and Innovation / Fab Laboratory.

Wherever the animal experiments are being conducted using simulations, the requirement of animal house and registration with the Committee for the Purpose of Control And Supervision of Experiments on Animals (CPCSEA) is not required for such Institutions, else the same shall be in conformity with the provisions of the Prevention of Cruelty to Animals Act., 1960 and the Breeding and Experiments on Animals (Control And Supervision) Rules 1998.

**5. (a) Availability of Instructional Area (for Pharmacy) taking into account the aforesaid AICTE norms:**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Class Rooms</b> (size 66 sq.mt. each)				
<b>No. of Tutorial Rooms</b> (size 33 sq.mt.. each)				
<b>No. of PG Class Rooms</b> (size 33 sq.mt.. each)				
<b>No. of Laboratory for Post Graduate</b> (size 75 sq.mt.)				
<b>No. of Laboratories</b> (for first year) (other than First year) (size 75 sq.mt. each)				
<b>No. of Computer Centre inclusive of Language Laboratory</b> (size 75 sq.mt. each)				
<b>No. of Library</b> (size 150 sq.mt. each)				
Machine Room (size 75 sq.mt.)				
Instrument Room (Second Year) (size 75 sq.mt.)				
<b>No. of Animal House</b> (size 75 sq. mt.)				
<b>No. of Seminar Halls</b> (size 132 sq.mt. each)				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**6. AICTE Norms for Instructional Area (Carpet Area) in sq.mt. – Management (MBA) / MCA (Degree Institute)**

	<b>Number of Rooms required</b>	<b>Carpet Area in sq.mt. per Room</b>
Class Rooms	1 per division per year	66
Tutorial Rooms+	25 % of total Class room	33
Computer Center	1	150
Computer Laboratory	1	66
Seminar Hall	1	132
Library	1	100

If the Institution has more than 2 Divisions, One Additional Laboratory for each Division need to be created.

Each Class Room shall be equipped with LCD projector, Smart Board, Internet Connection, etc.

Seminar Hall shall have proper furnishing and equipment such as LCD projector, Smart Board, PA system and Executive chairs.

Institutions shall have MOOCS Facility Centre and Innovation Laboratory.

**6. (a) Availability of Instructional Area [for MCA/ Management (MBA)] taking into account the aforesaid AICTE norms:**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Class Rooms</b> (size 66 sq.mt. each)				
<b>No. of Tutorial Rooms</b> (size 33 sq.mt. each)				
<b>No. of Computer Laboratories</b> (size 66 sq.mt. each)				
<b>No. of Computer Centre</b> (size 150 sq.mt. each)				
<b>No. of Library</b> (size 100 sq.mt. each)				
<b>No. of Seminar Hall</b> (size 132 sq.mt. each)				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**7. AICTE Norms for Instructional Area (Carpet Area) in sq.mt. – Hotel Management and Catering Technology (HMCT) [Degree Institute]**

	<b>Number of Rooms required</b>	<b>Carpet Area in sq.mt. per Room</b>
Classrooms	Total Number of Divisions @ X 0.75	66/33**
Tutorial Rooms +	25% of total Classroom	33
Laboratory (Guest Room/ House Keeping / Front Office) for First Year	3	66
Laboratory (Guest Room /House Keeping / Front Office / Kitchen) other than First Year	2 per Course per year	66
Laboratory / Guest Room for Post Graduate	1 per Specialization	66
Kitchen with Dinning Hall	1	132
Computer Center	1	75
Restaurant	2	66
Seminar Hall	1 per Under Graduate Courses	132
Library	1	150
Language Laboratory	1	66

+ For Post Graduate Course Tutorial Rooms not required.

\*\* Applicable for Post Graduate Course Only

For Post Graduate Programme, Seminar Hall of respective Under Graduate Programme may be shared.

For Courses having more than 2 Divisions, ONE Additional Laboratory for each Division need to be created.

Under Graduate Laboratories, if shared with Post Graduate Courses shall be upgraded to meet requirements of Post Graduate Curriculum.

Diploma Laboratories, if shared with Under Graduate Courses shall be upgraded to meet requirements of the Under Graduate Curriculum.

Research Laboratory shall be provided with an area of 66 sq.mt. for each Institution offering Post Graduate Courses.

Language Laboratory shall have a minimum of 20 Computers with appropriate Software.

The Institution shall have one Smart Class Room /Course with LCD projector, Smart Board, Internet Connection, etc.

Seminar Hall shall have proper furnishing and equipment such as LCD projector, Smart Board, PA system and Executive chairs.

Institutions shall have MOOCS Facility Centre.

**7. (a) Availability of Instructional Area for Hotel Management and Catering Technology (HMCT) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Class Rooms</b> (size 66 sq.mt. each)				
<b>No. of Tutorial Rooms</b> (size 33 sq.mt. each)				
<b>No. of Laboratories (Guest Room/ House Keeping / Front Office) for First Year</b> (size 66 sq.mt. each)				
<b>No. of Laboratories (Guest Room/ House Keeping / Front Office) for other than First Year</b> (size 66 sq.mt. each)				
<b>No. of Laboratory/ Guest Room for Post Graduate</b> ( size 66 sq. mt. each)				
<b>No. of Computer Centre</b> (size 75 sq.mt. each)				
<b>No. of Library</b> (size 150 sq.mt. each)				
<b>No. of Seminar Hall</b> (size 132 sq.mt. each)				
<b>No. of Kitchen with Dining Hall</b> (size 132 sq.mt. each)				
<b>No. of Restaurant</b> (size 66 sq.mt. each)				
<b>No. of Language Laboratory</b> (size 66 sq.mt.)				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**8. AICTE Norms for Instructional Area (Carpet Area) in sq.mt. - Architecture & Architecture (General) (Degree Institute)**

	<b>Numbers of Rooms required</b>	<b>Carpet Area in sq.mt. per Room</b>
Class Rooms	Total Numbers of Divisions @ x 0.75	66/30**
Resource Centre	1	80
Computer Laboratory (for First Year)	1	60
Studio (other than First Year)	1 per course per year	120
Post Graduate Studio	2	60
Model making and Carpentry Work Shop	1	120
Art Court	1	100
Multi- Purpose Hall	1	150
Research Laboratory +	1	60
Computer Center	1	75
Seminar Hall	1 per Under Graduate Institution	132
Library	1	150
Language Laboratory	1	60

\*\*Applicable for Post Graduate Course only.

+ Only for Institutions offering Post Graduate Courses.

For Post Graduate Courses, Seminar Hall of respective Under Graduate Degree Course may be shared

For courses having more than 2 Divisions, ONE Additional Studio for each Division need to be created

Under Graduate Laboratories, if shared with Post Graduate Courses shall be up graded to meet requirements of Post Graduate Curriculum

Diploma Laboratories, if shared with Under Graduate Degree Courses shall be upgraded to meet requirements of the Under Graduate Curriculum.

Language Laboratory shall have a minimum of 20 Computers with appropriate Software.

The Institution shall have one Smart Class Room /Course with LCD projector, Smart Board, Internet Connection, etc.

Seminar Hall shall have proper furnishing and equipment such as LCD projector, Smart Board, PA system and Executive chairs.

Institutions shall have MOOCS Facility Centre and Innovation / Fab Laboratory.

8. (a) *Availability of Instructional Area ( for Architecture & Architecture [General] ) taking into account the aforesaid AICTE norms :*

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Class Rooms</b> (size 66 sq.mt. each)				
<b>No. of PG Graduate Studio</b> (size 60 sq.mt. each)				
<b>No. of Studio (other than First Year)</b> (size 120 sq.mt.)				
<b>No. of Computer Laboratory (for First Year) (size 60 sq.mt. each)</b>				
<b>No. of Model making and Carpentry Workshop</b> (size 120 sq.mt each)				
<b>No. of Computer Centre (size 75 sq.mt. each)</b>				
<b>No. of Art Court (size 100 sq.mt.)</b>				
<b>No. of Multi-Purpose Hall (size 150 sq.mt.)</b>				
<b>No. of Library</b> (size 150 sq.mt. each)				
<b>No. of Seminar Hall (size 132 sq.mt. each)</b>				
<b>Language Laboratory (size 60 sq.mt. each)</b>				
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company		Signature of the Members of the Inspection Team	

**9. AICTE Norms for Administrative Area (Carpet Area) in sq. mt.**

	Principal / Director Office	Board Room	Office all inclusive	Cabin for Head of Department and Department Office	Faculty Rooms	Central Stores	Maintenance	Security	Housekeeping	Pantry for Staff	Examinations Control Office	Placement Office
Carpet Area in sq.mt. per Room	30	20	$\frac{150*}{300\$}$	20	5	30	10	10	10	10	30	30
Numbers of Rooms required for New Technical Institution	1	1	1	---	First Year Student intake/15	1	1	1	1	1	1	-
Total Number of Rooms	1	1	1	1/ Department	One per Faculty (as per norms ) in the Institution	1	1	1	1	1	1	1

\$ Technical Campus having more than one Programme

\*Technical Institution having one Programme

**9.(a) Availability of Administrative Area (for Engineering / Pharmacy / HMCT / MBA / MCA/ARCH) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Principal / Director Office</b> (size 20 sq.m. each)				
<b>No. of Board Room</b> (size 20 sq.m. each)				
<b>No. of Office all inclusive</b> (size 150 / 300 sq.m. each)				
<b>No. of Cabins for Head of Departments and Department Offices (size 20 sq.m. each)</b>				
<b>No. of Faculty Rooms (size 5 sq.m. each)</b>				
<b>No. of Central Stores (size 30 sq.m. each)</b>				
<b>No. of Maintenance (size 10 sq.m. each)</b>				
<b>No. of Security (size 10 sq.m. each)</b>				
<b>No. of Housekeeping (size 10 sq.m. each)</b>				
<b>No. of Pantry for Staff (size 10 sq.m. each)</b>				
<b>No. of Examinations Control Office (size 30 sq.m. each)</b>				
<b>No. of Placement Office (size 30 sq.m. each)</b>				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**10. AICTE Norms for Amenities Area (Carpet Area) in sq.mt.**

	Toilets (Ladies & Gents)	Boys Common Room	Girls Common Room	Cafeteria	Stationery Store & Reprography	First Aid cum Sick room	Principal' s quarter	Guest House	Sports Club / Gymnasium	Auditorium / Am phi Theater	Boys Hostel	Girls Hostel
Carpet Area in sq.mt per room for Technical Campus having more than one Program	350*	100	100	150	10	10	150	30	200	400	<b>Adequate</b>	<b>Adequate</b>
Carpet Area in sq.mt. per room for Technical Campus having one Program	150 <sup>s</sup>	75	75	150	10	10	150	30	100	250		
Number of Rooms required for New Technical Institutions	Adequate	1	1	1	1	1	-	-	-	-	-	-
Total Number of Rooms	Adequate	1	1	1	1	1	Desirable	Desirable	Desirable	Desirable	Desirable	Desirable

*	Total area for Technical Campus having more than one programme
\$	Total area for Technical Campus having one programme

**10.(a) Availability of Amenities Area (for Engineering / Pharmacy / HMCT / MBA / MCA/ARCH) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Toilets (Ladies &amp; Gents)</b> (size 350/150 sq.m.in total)				
<b>No. of Boys Common Room</b> (size 100/75 sq.m. each)				
<b>No. of Girls Common Room</b> (size 100/75 sq.m. each)				
<b>No. of Cafeteria</b> (size 150 sq.m. each)				
<b>No. of Stationery Store &amp; Reprography</b> (size 10 sq.m. each)				
<b>No. of First Aid cum Sick room</b> (size 10 sq.m. each)				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>Principal's quarter</b> (size 150 sq.m. each)				
<b>Guest House</b> (size 30 sq.m. each)				
<b>Sports Club / Gymnasium</b> (size 200/100 sq.m.)				
<b>Auditorium / Am phi Theater</b> (Size 400 / 250 sq.m. )				
<b>Boys Hostel</b>				
<b>Girls Hostel</b>				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

### 11. AICTE Norms for Computers, Software, Internet and Printers

Programme		Number of PCs/Laptops to students ratio (Min 20 PCs)	Legal System Software @	Legal Application Software**	LAN & Internet	Mail Server & Client	Printers including Colors Printer (% of total No. of PCs/Laptops)
Engineering/ Technology	UG PG	<u>1:6</u> <u>1:4</u>	03	20	All	Desirable	5%
Pharmacy	UG PG	<u>1:8</u> <u>1:6</u>	01	10	All	Desirable	5%
HMCT	UG	<u>1:6</u>	01	10	All	Desirable	5%
Management	PG	1:6	01	10	All	Desirable	5%
MCA	PG	1:4	03	20	All	Desirable	5%
Architecture & Planning	UG PG	<u>1:6</u> <u>1:4</u>	01	10	All	Desirable	5%*

\* At least one printer to be A1 sized Color Printer/Plotter.

\*\* Includes Plagiarism checking Software

#### Internet speed required for the Institution

Approved Intake	Internet speed
Up to 300	32 Mbps
301 – 600	48 Mbps
601 – 900	64 Mbps
901 – 1500	100 Mbps
> 1500	200 Mbps

Arrangement to view NPTEL/SWAYAM etc. shall be made available.

At least 4 Mbps Wi-Fi connectivity at 4 or 5 hotspots shall be made available.

a. Utilization of Open Source Software shall be encouraged
b. Secured Wi Fi facility is highly recommended
c. Purchase of the most recent hardware is desirable.
d. Library, Administrative offices and Faculty members shall be provided with exclusive computing facilities along with LAN and Internet. This shall be considered as over and above the requirement meant for PCs to student's ratio.
e. @Adequate number of Software licenses is required
f. Central Xeroxing facility for students is preferred
g. PC shall also include laptop in the inventory of the Institution
h. Every department shall have separate computer Laboratory with at least 20 computers and a centralized computer Laboratory with at least 100 computers.

**11. (a) Availability of Computers/Software/Internet/Printers (for Engineering / Pharmacy / HMCT / MBA / MCA/ARCH) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of PCs/Laptops to students ratio</b> (Min 20 PCs)				
<b>No. of Legal System Software</b>				
<b>No. of Legal Application Software</b>				
<b>LAN and Internet for number of PCs</b>				
<b>Mail Server &amp; Client</b>				
<b>Internet speed required as per approved intake of the Institution</b>	Approved Intake- ..... Internet speed .... Mbps			
<b>No. of Black Printers</b>				
<b>No. of Color Printers</b>				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

## 12. AICTE Norms for Books, Journals and Library facilities

Programme	Total number of Divisions	Titles	Volumes	Journals Published in India	Journals Published at Abroad	E Journals	Reading room seating	Multimedia PCs for Digital Library /internet Surfing located in reading room
		Number				% of total Students		% of total Students
Engineering/ Technology(UG)	B	100# 50 per * course	500xB# 250 per* course	6xB#	desirable	As per Appendix 10	15% (Max 150)	Minimum 10
Pharmacy(UG)	B	100# 50*	500xB# 500xB*	6xB#				
Architecture / Planning (UG)	B	100# 50*	400xB# 400xB*	6xB#				
Applied Arts & Crafts (UG)	B	100# 50*	500xB# 500xB*	6xB#				
HMCT (UG)	B	100# 50*	500xB# 500xB*	6XB#				
MBA/MCA(PG)	B	100# 50*	500xB# 500xB*	6XB #				
Engineering and Technology/Pharmacy/ Architecture/ Planning/Applied Arts and Crafts (PG)	B	50# As <sup>s</sup> Required	200# 100 <sup>s</sup>	6XB#	6XB#	25% (Max100)		

**B = Number of Division at First year**

1#	Book Titles and volumes required at the time of starting new Institution equally distributed per subject.
2.	Total numbers of Titles and volumes shall be increased in continuation till 15 years, which shall be the minimum stock of books. Institutions shall have to add annual increment of Books based on the changes in Curriculum and Syllabus from time to time by the Affiliating University / Board.
3*	Annual Increment equally distributed per subject.
4\$	Component for additional Division / Course.

5.	Books shall also include subjects of Science, Humanities, Management and Social Science as per the requirements of the Curriculum and Syllabus.
6.	Digital Library facility with multimedia facility is essential.
7.	Reprographic facility in the library is essential.
8.	Document scanning facility in the library is essential.
9.	Library books/non books classification as per standard classification and cataloging system is essential.
10.	Facilities to access the Online Courses is essential.
11.	Library automation software including Bar coding is desirable.
12.	Upto 50% of total number of Titles and Volumes may be in the form of e-books with intranet access is mandatory in case of Post Graduate Level Programme(s) and shall be desirable in case of UG/ Diploma Programme (s). Member in NDL/Indian National Digital Library in Engineering Sciences and Technology (INDEST) or any other National Consortium is permissible for e-books.
13.	The Institution shall be a member of National Digital Library. Aggregators shall also be used.

### **E- Journals (Appendix 10)**

All the Journals in the Library are to be “Subscribed” and at least 25% are to be indexed by Scopus/Web of Science / Medline (Pharmacy).

It is desirable to procure the hard copy of Journals published abroad. However, subscription to Journals published in India is essential.  
E- Journals are recommended.

# As per the Programme (s) /Course(s) offered by the Institution, relevant e- journals from web of Science or Scopus shall be subscribed.

The e-Shodh Sindhu is providing support in negotiating the prices of e- resources to AICTE approved Technical Institutions. The same shall be explored by the Institutions.

Journals shall also include subjects of science and Humanities, Management and Social Science.

**12. (a) Availability of Books/Journals/Library facilities (for Engineering / Pharmacy / HMCT / MBA / MCA/ARCH) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>No. of Book Titles #(course-wise) in the College Library</b>				
<b>No. of Volumes #(course-wise) in the College Library</b>				
<b>No. of Journals Published in India (course-wise) in the College Library</b>	Essential			
<b>No. of Journals Published at Abroad (course-wise) in the College Library</b>	Desirable			
<b>Reading Room's seating capacity for the number of students 15% (Max 150) for UG and 25% (Max 100) for PG</b>				
<b>Multimedia PCs for Digital Library / Internet Surfing located in reading room</b>	Essential			
<b>Total numbers of Titles and volumes shall be increased in continuation till 15 years, which shall be the minimum stock of books. Institutions shall have to add annual increment of Books based on the changes in Curriculum and Syllabus from time to time by the Affiliating University / Board.</b>				
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.		Signature of the Members of the Inspection Team	

Particulars	AICTE requirement [To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>Reprographic facility in the library</b>	Essential			
<b>Component for additional Division / Course</b>				
<b>Books shall also include subjects of Science and Humanities Management and Social Science as per the requirements of the Curriculum and Syllabus.</b>				
<b>Document scanning facility in the library</b>	Essential			
<b>Annual Increment equally distributed per subject</b>				
<b>Upto 50% of total number of Titles and Volumes may be in the form of e-books with intranet access is mandatory in case of Post Graduate Level Programme(s) and shall be desirable in case of UG/ Diploma Programme (s). Member in NDL/Indian National Digital Library in Engineering Sciences and Technology (INDEST) or any other National Consortium is permissible for e-books.</b>				
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.		Signature of the Members of the Inspection Team	

Particulars	AICTE requirement [To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
<b>Digital Library facility with multimedia facility</b>	Essential			
<b>Library books/non books classification as per standard classification methods and cataloging system is essential</b>	Essential			
<b>Facilities to access the Online Courses are essential.</b>	Essential			
<b>Library automation software including Bar coding is desirable</b>	Desired			
<b>Institution should be a member of National Digital Library. Aggregators shall also be used.</b>				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**13. AICTE Norms for Faculty requirements and Cadre Ratio for Technical Campus: -**

**AICTE Norms for Faculty Requirements and Cadre Ratio (Under Graduate) Degree Programmes:**

	Faculty student based on Approved intake	Principal / Director	Professor	Associate Professor	Assistant Professor	Total
		A	B	C	D	A+B+C+D
Engineering/ Technology	1:20	1	$\frac{S}{20xR} - 1$	$\frac{S}{20xR} \times 2$	$\frac{S}{20xR} \times 6$	$\frac{S}{20}$
Pharmacy	1:15	1	$\frac{S}{15xR} - 1$	$\frac{S}{15xR} \times 2$	$\frac{S}{15xR} \times 6$	$\frac{S}{15}$
Architecture	1:10	1	$\frac{S}{10xR} - 1$	$\frac{S}{10xR} \times 2$	$\frac{S}{10xR} \times 6$	$\frac{S}{10}$
Applied Arts & Crafts	1:10	1	$\frac{S}{10xR} - 1$	$\frac{S}{10xR} \times 2$	$\frac{S}{10xR} \times 6$	$\frac{S}{10}$
HMCT	1:20	1	$\frac{S}{20xR} - 1$	$\frac{S}{20xR} \times 2$	$\frac{S}{20xR} \times 6$	$\frac{S}{20}$
<b>S - Sum of number of students as per "Approved Intake" for all years, R = (1+2+6)</b>						

**AICTE Norms for Faculty Requirements and Cadre Ratio (Post Graduate) Degree Programme**

Programme	Faculty student ratio based on approved intake	Principal / Director	Professor	Associate Professor	Assistant Professor	Total
		A	B	C	D	A+B+C+D
*Engineering/ Technology	1:15	-	$\frac{S}{15xR}$	$\frac{S}{15xR}$	$\frac{S}{15xR}$	$\frac{S}{15}$
*Pharmacy	1: 10	-	$\frac{S}{10xR}$	$\frac{S}{10xR}$	$\frac{S}{10xR}$	$\frac{S}{10}$
*Architecture	1:8	-	$\frac{S}{8xR}$	$\frac{S}{8xR}$	$\frac{S}{8xR}$	$\frac{S}{8}$
*Applied Arts & Crafts	1:10	-	$\frac{S}{10xR}$	$\frac{S}{10xR}$	$\frac{S}{10xR}$	$\frac{S}{10}$
*HMCT	1:12	-	$\frac{S}{12xR}$	$\frac{S}{12xR}$	$\frac{S}{12xR}$	$\frac{S}{12}$
#MBA/PGDM	1:20	1	$\frac{S}{20xR} - 1$	$\frac{S}{20xR} \times 2$	$\frac{S}{20xR} \times 6$	$\frac{S}{20}$
#MCA	1:20	1	$\frac{S}{20xR} - 1$	$\frac{S}{20xR} \times 2$	$\frac{S}{20xR} \times 6$	$\frac{S}{20}$
S - Sum of number of students as per "Approved Intake" for all years In case of non-availability of qualified Professor, an Associate Professor may be considered. * R = (1+1+1); # R= (1+2+6)						

In Integrated Planning Course, Faculty requirement is 1:16 for the first three years and 1:10 for the next two years.

However, Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have faculty : student as 1:15 and maintain a better Cadre ratio in order to achieve excellence in Technical Education.

Number for Science and Humanities Faculty depends on the University Curriculum.

For every Post Graduate Course, there should be at least one Professor with Ph. D. qualification.

**Cadre Ratio shall be 1:2:6**

**AICTE Norms for Faculty Cadre and Qualifications (Degree & Post Graduate)**

Programme	Cadre	Qualifications	Experience
Engineering / Technology	Assistant Professor	BE / B. Tech and ME / M. Tech in relevant branch with First Class or equivalent either in BE / B. Tech or ME / M. Tech	
MCA	Assistant Professor	BE / B. Tech and ME / M. Tech in relevant branch with First Class or equivalent either in BE / B. Tech or ME / M. Tech <b>OR</b> BE / B. Tech and MCA with First class or equivalent in either BE / B. Tech or MCA <b>OR</b> MCA with first class or equivalent with two years relevant experience.	
Management	Assistant Professor	First Class or equivalent in Master's Degree in Business Administration or equivalent And 2 years relevant Experience is desirable.	
Pharmacy	Assistant Professor	Bachelors and Master's Degree in Pharmacy with First Class or equivalent either in Bachelors or Master's Degree.	
HMCT	Assistant Professor	First class at Bachelors (3 year degree or Diploma after 10+2 in HMCT) or equivalent and Master's Degree in Hotel Management and Catering Technology with First Class or equivalent either in Bachelors or Master's Degree OR 8 years relevant experience <b>OR</b> First class at Bachelors 4 year degree or equivalent and Master's Degree in Hotel Management and Catering Technology with First Class or equivalent either in Bachelors or	

		Master's Degree OR 7 years relevant experience	
All Program	Associate Professor	Qualification as above that is for the post of Assistant Professor, as applicable and PhD or equivalent, in appropriate discipline  Post PhD publications and guiding PhD student is highly desirable.	Minimum of 5 years' experience in teaching and/or research and/or industry of which at least 2 years shall be post PhD is desirable. In case of Architecture, Professional Practice of 5 years as certified by the Council of Architecture shall also be considered valid.
All Program	Professor	Qualifications as above that are for the post of Associate Professor, as applicable.  Post PhD publications and guiding PhD students is highly desirable.	Minimum of 10 years teaching and/or research and/or industrial experience of which at least 5 years should be at the level of Associate Professor. Or Minimum of 13 years' experience in teaching and/or Research and/or Industry. In case of research experience, good academic record and books/research paper publications/IPR/patents record shall be required as deemed fit by the expert members in Selection Committee.
			If the experience in industry is considered, the same shall be at managerial level equivalent to Associate Professor with active participation recorded in devising/designing, planning, executing, analyzing, quality control, innovating, training, technical books/research paper publications/IPR/patents etc. as deemed fit by the expert members in Selection Committee.  In case of Architecture, Professional Practice of 10 years as certified by the Council of Architecture shall also be considered valid.

All Program	Principal / Director	<p>Qualifications as above that is for the post of Professor, as applicable</p> <p>Post PhD publications and guiding PhD students is highly desirable</p> <p>Adjunct Faculty/ Resource Person from Industry in AICTE approved Technical Institution</p>	<p>Minimum of 10 years teaching and/or research and/or industrial experience of which at least 3 years should be at the level of Associate Professor or minimum of 13 years' experience in teaching and/or Research and/or Industry. In case of research experience, good academic record and books/research paper publications/IPR/patents record shall be required as deemed fit by the expert members in Selection Committee.</p> <p>If the experience in industry is considered, the same shall be at managerial level equivalent to Professor with active participation record in devising / designing, developing, planning, executing, analyzing, quality Control, innovating, training, technical books / research paper publications / IPR / patents etc. As deemed fit by the expert members in Selection Committee.</p> <p>Flair for Management and Leadership is essential.</p> <p>In case of Architecture, Professional Practice of 10 years as certified by the Council of Architecture shall also be considered valid.</p> <p>Adjunct Faculty/ Resource Person shall be a Faculty retired from Technical Institution or a person of eminence, with or without Post Graduate of Ph.D qualifications having 10 to 15 years of experience from Industry / Organization. There shall be no upper age limit for Adjunct Faculty/ Resource person as long as he/she add value to the education and Academic activities of the Institution. He/She shall satisfy the following norms:</p> <ul style="list-style-type: none"> <li>*Teaching and research organization of State/ Central Government Institutions/ Universities</li> <li>*Central and State Public Sector undertakings(PSUs)</li> <li>*Reputed Industries.</li> <li>* Civil Servants (IAS/IPS/Officials from Central and Provincial Services) and Professionals and Officials from Professional Councils.</li> <li>*NRIs and PIOs working with reputed overseas academic, research and Industrial organizations or having a demonstrated in Indian issues.</li> </ul>
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A	Equivalence for PhD is based on publication of 5 International Journal papers, each Journal having a cumulative impact index of not less than 2.0, with incumbent as the main author and all 5 publications being in the authors' area of specialization
B	PhD shall be from a recognized University
C	For incumbent Assistant Professor, experience at the level of Assistant Professor will be considered equivalent to experience at the level of Associate Professor provided incumbent assistant professor has acquired or acquires PhD degree in relevant discipline.
D	Experience at Diploma Institutions is also considered equivalent to experience in degree level Institutions at appropriate level and as applicable. However, qualifications as above shall be mandatory.
E	If a class / division is not awarded, minimum of 60% marks in aggregate shall be considered equivalent to first class / division. If a Grade Point System is adopted the CGPA will be converted into equivalent marks as below.

<b>Grade Point</b>	<b>Equivalent Percentage</b>
6.25	55%
6.75	60%
7.25	65%
7.75	70%
8.25	75%

**13.(a) Availability of Faculty (for Engineering / Pharmacy / HMCT / MBA / MCA/ARCH) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
Faculty : Student (for UG) Faculty : Student (for PG)				

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society/ Company.	Signature of the Members of the Inspection Team

**13.(b) Availability of Faculty (Principal / Director) taking into account the aforesaid AICTE norms :**

**FORMAT REGARDING PRINCIPAL / DIRECTOR (APPOINTED ON PERMANENT BASIS IN ACCORDANCE WITH THE AFORESAID AICTE NORMS)**

Name of the Principal / Director	Date of Birth	Date of Joining	Qualification mentioning the year of passing, branches / specialization and University			Experience in different Organizations			Total years of experience	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			UG	PG	PhD	Organization	From	To		O.K.	Deficiencies
Signature of the Principal / Director with Seal			Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society/ Company.						Signature of the Members of the Inspection Team		



**13.(d) Availability of Faculty (Professor) (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid AICTE norms :  
 FORMAT REGARDING PROFESSOR(S) (APPOINTED ON PERMANENT BASIS IN ACCORDANCE WITH THE AFORESAID AICTE NORMS)**

Sl. No.	Name of the Professor(s)	Date of Birth	Date of Joining	Qualification mentioning the year of passing, branches / specialization and University			Experience in different Organizations			Total years of experience	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
				UG	PG	PhD	Organisation	From	To		O.K.	Deficiencies

**Please multiply this page and attach for submission of exhaustive list.**

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team



**13.(f) Availability of Faculty (Associate Professor) (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid AICTE norms :**  
**FORMAT REGARDING ASSOCIATE PROFESSOR(S) (APPOINTED ON PERMANENT BASIS IN ACCORDANCE WITH THE AFORESAID AICTE NORMS)**

Sl. No.	Name of the Associate Professor(s)	Date of Birth	Date of Joining	Qualification mentioning the year of passing, branches / specialization and University			Experience in different Organizations			Total years of experience	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
				UG	PG	PhD	Organization	From	To		O.K.	Deficiencies

**Please multiply this page and attach for submission of exhaustive list.**

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society. / Company	Signature of the Members of the Inspection Team



**13.(h) Availability of Faculty (Assistant Professor) (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid AICTE norms :**  
**FORMAT REGARDING ASSISTANT PROFESSOR(S) (APPOINTED ON PERMANENT BASIS IN ACCORDANCE WITH THE AFORESAID AICTE NORMS)**

Sl. No.	Name of the Professor(s)	Date of Birth	Date of Joining	Qualification mentioning the year of passing, branches / specialization and University			Experience in different Organizations			Total years of experience	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
				UG	PG	PhD	Organisation	From	To		O.K.	Deficiencies

**Please multiply this page and attach for submission of exhaustive list.**

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**14. AICTE Norms for Essential and Desired requirements for Technical Campus (Marked as essential need to be made available at the time of the Expert committee visit)**

1	Standalone Language Laboratory	Essential
2	Potable Water supply and outlets for drinking water at strategic locations	Essential
3	Electrical Grid Power Supply Connection	Essential
4	Sewage Disposal System	Essential
5	Telephone	Essential
6	Vehicle Parking	Essential
7	Barrier Free Built Environment for disabled and elderly persons ( As per Chapter VII of Approval Process Handbook 2020-21)	Essential
8	Safety and Security measures in the Campus ( as per Chapter VII of Approval Process Hand book 2020-21)	Essential
9	Fire and Safety Certificate	Essential
10	General Insurance provided for assets against fire, burglary and other calamities	Essential
11	Road suitable for use by Motor vehicle-Motorized Road	Essential
12	General Notice Board and Departmental Notice Boards	Essential
13	Fast aid, Medical and Counseling Facilities	Essential
14	Appointment of Student Counselor	<b>Essential</b>
15	Establishment of Anti-Ragging Committee (As per AICTE notified Regulation for prevention & prohibition of ragging in AICTE approved Technical Institutions vide No. 37-3/Legal/AICTE/2009 dated 01.07.2009)*	<b>Essential</b>
16	Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University. (As per AICTE (Establishment of Mechanism for Grievance Redressal) Regulations, 2012, F. No. 37-3/Legal/2012, dated 25.05.2012)*	<b>Essential</b>
17	Establishment of Internal Complain Committee (ICC) (As per Section 4 AICTE (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and students and Redressal of Grievances in Technical Institutions) Regulations, 2016 vide No. F. AICTE/WH/2016/01 dated 10 <sup>th</sup> June 2016*	<b>Essential</b>
18	Establishment of Committee for SC/ST (As per the Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act, 1989, No. 33 of 1989, dated 11.09.1989)*	<b>Essential</b>
19	Copies of AICTE approvals (LoA and EoA of subsequent years) obtained since inception of the Institution till date shall be placed in the web site of the Institution	<b>Essential</b>
20	Digital payment for all financial transactions as per MHRD directives	<b>Essential</b>
21	Compliance of the National Academic Depository (NAD) as per MHRD directives, (Applicable for standalone Institutions and University)	<b>Essential</b>
22	Provision to watch MOOCS through SWAYAM	<b>Essential</b>
23	Display board within the premises as well as in the web site of the Institution indicating the feedback facility of students and faculty available in the AICTE Web-Portal	<b>Essential</b>
24	Implementation of Food Safety and Standards Act, 2006 at the Institution	<b>Essential</b>
25	Institution-Industry Cell	<b>Essential</b>
26	Applied for membership of National Digital Library	<b>Essential</b>
27	Group Accident Policy to be Provided for the Employees	<b>Essential</b>

28	Display of information submitted to AICTE ( including the accreditation status and Board of Governors) along with mandatory disclosures in the Web site of the Institution	<b>Essential</b>
29	Students Safety Insurance	<b>Essential</b>
30	Establishment of Online Grievance Redressal Mechanism as per Annexure 13 of Approval Process Handbook 2020-21	<b>Essential</b>
31	Internal Quality Assurance Cell*	<b>Essential</b>
32	Implementation of mandatory Internship policy for student**	<b>Essential</b>
33	Implementation of Teacher Tanning policy	<b>Essential</b>
34	Implementation of Examination reforms (Applicable for Standalone Institutions and University)****	<b>Essential</b>
35	Sports facilities	<b>Essential</b>
36	Implementation of student Induction Programme***	<b>Essential</b>
37	At least 5 MOUs with Industries	<b>Essential</b>
38	Implementation of the schemes announced by Government of India	Desirable
39	Offering of Skill development Courses approved by the Council	Desirable
40	Auditorium	Desirable
41	Innovation Cell / Club	Desirable
42	Social Media Cell	Desirable
43	Participation in the National Innovation Ranking	Desirable
44	Participation in the National Institutional Ranking Framework (NIRF)	Desirable
45	Fabrication facility Laboratory (FABLAB)/Tinkering Laboratory/Innovation Laboratory	Desirable
46	Backup Electric Supply	Essential
47	Availability of at least ONE Smart Classroom per Department	Desirable
48	Rain water Harvesting	Essential
49	Waste Management and environment improvement measures to ensure a sustainable Green Campus	Essential
50	Public announcement system at strategic locations for general announcements/paging and announcements in emergency	Desirable
51	Enterprise Resource Planning (ERP) Software for Student-Institution-Parent interaction	Desirable
52	Transport	Desirable
53	Post Office, Banking Facility / ATM	Desirable
54	Implementation of Startup Policy	Desirable
55	LCD (or similar) projectors in Classrooms	Desirable
56	Implementation of Unnat Bharat Abhiyan /Saansad Adarsh Gram Yojana (SAGY)	Desirable
57	Availability of quality sanitary napkins through sanitary napkin vending machines and ensuring safe and environment friendly disposal of used sanitary napkin through sanitary napkin incinerator	Desirable
58	Staff Quarters	Desirable

59	Display of Course(s) and “Approved Intake” in the Institution at the entrance of the Institution. Course(s) taken through duly recognized MOOCs shall be used as Supplementary Course(s).	Desirable
60	Efforts to encourage Final Year students to write GATE examination	Desirable
61	Intellectual Property Right Cell	Desirable
62	Installation of grid connected Solar rooftops/Power Systems	Desirable
63	Plastic Free Campus	Desirable

**\* Appointment of Committees/IQAC/Grievance Mechanism should be made before commencement of the session, however, an Affidavit to that effect need to be submitted by the new Technical Institution at the time of Inspection by Expert Visit Committee**

**\*\* An affidavit to be uploaded on the Portal for the compliance of Implementation of Internship Policy of AICTE**

**\*\*\* An Undertaking to be uploaded on the Portal that the Institution shall possess and UHV Induction Programme trained Faculty for every 20 newly joined students before AY 2022-23.**

**\*\*\*\* An undertaking to be uploaded on the Portal that the Internal Assessment & Laboratory Work shall be carried out following AICTE Exam Reforms and all the existing Faculty shall be trained for the same.**

**Note. The abovementioned documents need to be uploaded before downloading the EoA. The Council shall verify their implementation at any point of time.**

**14.(a) Availability of Essential and Desired requirements (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid AICTE norms :**

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
Standalone Language Laboratory	Essential			
Portable Water supply and outlets for drinking water at strategic locations	Essential			
Electrical Grid Power Supply Connection	Essential			
Copies of AICTE approvals (LoA and EoA of subsequent years) obtained since inception of the Institution till date shall be placed in the web site of the Institution	Essential			
Digital payment for all financial transactions as per MHRD directives	Essential			
Compliance of the National Academic Depository (NAD) as per MHRD directives (Applicable to Standalone Institutions and University)	Essential			
Provision to watch MOOCS through SWAYAM	Essential			
Sewage Disposal System	Essential			
Telephone	Essential			
Vehicle Parking	Essential			
Barrier Free Built Environment for disabled and elderly persons (as per Chapter VII of the Approval Process Handbook 2020-21)	Essential			
Road suitable for use by Motor vehicle-Motorized Road	Essential			
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.		Signature of the Members of the Inspection Team	

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
General Notice Board and Departmental Notice Boards	Essential			
First aid, Medical and Counseling Facilities	Essential			
Group Accident Policy to be provided for the employees	Essential			
Students Safety Insurance	Essential			
Applied for Membership of National Digital Library	Essential			
Institution-Industry Cell	Essential			
Display of information submitted to AICTE (including the accreditation status and Board of Governors) along with mandatory disclosures in the Web site of the Institution	Essential			
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.		Signature of the Members of the Inspection Team	

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
Students Safety Insurance	Essential			
Implementation Food Safety and Standards Act, 2006 at the Institution	Essential			
Safety and Security measures in the Campus (as per Chapter VII of Approval Process Hand book 2020-21)	<b>Essential</b>			
Appointment of Student Counselor	<b>Essential</b>			
Establishment of Anti-Ragging Committee (as per AICTE notified regulation for prevention & prohibition of ragging in AICTE approved Technical Institutions vide No. 37-3/Legal/AICTE/2009 dated 01.07.2009)	<b>Essential</b>			
Establishment of Internal Complain Committee (ICC) (As per Section 4 AICTE (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and students and Redressal of Grievances in technical Institutions) Regulations, 2016 vide No. F. AICTE/WH/2016/01 dated 10.06.2016.	<b>Essential</b>			
Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University. (As per AICTE (Establishment of Mechanism for Grievance Redressal) Regulations, 2012, F. No. 37-3/Legal/2012, dated 25.05.2012)	<b>Essential</b>			
Establishment of Committee for SC/ST (As per the Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act, 1989, No. 33 of 1989, dated 11.09.1989).	<b>Essential</b>			
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company		Signature of the Members of the Inspection Team	

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]		Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]
			OK	Deficiencies
Display board within the premises as well as in the web site of the Institution indicating the feedback facility of students and faculty available in the AICTE Web-Portal	<b>Essential</b>			
Establishment of Online Grievance Redressal Mechanism as per Annexure 13 of Approval Process Handbook 2020-21	<b>Essential</b>			
Internal Quality Assurance Cell	<b>Essential</b>			
Implementation of mandatory Internship policy for student	<b>Essential</b>			
Implementation of Teacher Tanning policy	<b>Essential</b>			
Implementation of Examination reforms (Applicable for Standalone Institutions & University)	<b>Essential</b>			
Sports facilities	<b>Essential</b>			
Implementation of student Induction Programme	<b>Essential</b>			
Rain Water Harvesting	<b>Essential</b>			
Waste Management and environment improvement measures to ensure a sustainable Green Campus	<b>Essential</b>			
General Insurance provided for assets against fire, burglary and other calamities	<b>Essential</b>			
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.		Signature of the Members of the Inspection Team	

Particulars	AICTE requirement [ To be filled by the College ]			Available [ To be filled by the College ]
			OK	Deficiencies
Fast aid, Medical and Counseling Facilities	Essential			
At least 5 MOUs with Industries	Essential			
Availability of at least ONE Smart Classroom per Department	Desirable			
Availability of quality sanitary napkins through sanitary napkin vending machines and ensuring safe and environment friendly disposal of used sanitary napkin through sanitary napkin incinerator	Desirable			
Efforts to encourage Final Year students to appear GATE examination	Desirable			
Enterprise Resource Planning (ERP) software for Student-Institution –Parent interaction	Desirable			
Post Office, Banking facility / ATM	Desirable			
LCD (or similar) projectors in Classrooms	Desirable			
Staff Quarters	Desirable			
Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.			Signature of the Members of the Inspection Team

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
			O.K.	Deficiencies
Implementation of Unnat Bharat Abhiyan/ Saansad Adarsh Gram Yojana (SAGY)	Desirable			
Implementation of the schemes announced by Government of India	Desirable			
Offering of Skill development Courses approved by the Council	Desirable			
Participation in the National Institutional Ranking Framework (NIRF)	Desirable			
Fabrication facility Laboratory (FABLAB)/Tinkering Laboratory/Innovation Laboratory	Desirable			
Installation of grid connected Solar rooftops/Power Systems	Desirable			
Plastic Free Campus	Desirable			
Display of Course(s) and “Approved Intake” in the Institution at the entrance of the Institution. Course (s) taken through duly recognized MOOCs shall be used as Supplementary Course(s).	Desirable			
Implementation of Startup Policy	Desirable			

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

Particulars	AICTE requirement [ To be filled by the College ]	Available [ To be filled by the College ]	Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]
Intellectual Property Right Cell	Desirable		
Auditorium	<b>Desirable</b>		
Innovation Cell / Club	<b>Desirable</b>		
Social Media Cell	<b>Desirable</b>		
Participation in the National Innovation Ranking	<b>Desirable</b>		
Transport	<b>Desirable</b>		
Public Announcement system at strategic locations for general announcement / paging and announcements in emergency.	<b>Desirable</b>		

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**15. Norms for Laboratories – AICTE Institute**

\* All apparatus as required in strict conformity with the syllabus of MAKAUT, WB in each relevant branch of study are to be installed in the Laboratories.

\* Laboratories List as per MAKAUT, WB syllabus (Course-wise & Semester-wise) ---- enclosed as ANNEXURE – I

**15.(a) Availability of Laboratories requirements (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid MAKAUT,WB norms :**

Course / Branch [To be filled by the College]	Semester [To be filled by the College]	Name of the Laboratory with MAKAUT,WB Paper Code [ To be filled by the College ]	Room No. / Area (Sq.ft.) [ To be filled by the College ]	Experimental Set-up required as per MAKAUT,WB syllabus (Maximum four students shall work on one set) [ To be filled by the College ]		Observations of the Inspection Team [ If found in order, please write OK, otherwise enumerate deficiencies ]	
				All available =>Yes	Deficiencies =>Please enumerate	O.K.	Deficiencies

**Please multiply this page and attach for submission of exhaustive list.**

Signature of the Principal / Director with Seal	Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.	Signature of the Members of the Inspection Team

**Whether the action has been taken in regard to the Prevention and Prohibition of Ragging in accordance with the Provisions of AICTE Regulations Vide No. 37-3/Legal/AICTE/2009 dated 01.07.2009 is satisfactory or not ?**

<p><i>Information to be furnished the College</i></p>	<p><i>Observation of the Inspection Team/EVC</i></p>
<p><i>Yes / No</i></p>	<p><i>Satisfactory / Not up to the mark / Suggestion for improvement</i></p>

<p>Signature of the Principal / Director with Seal</p>	<p>Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.</p>	<p>Signature of the Members of the Inspection Team</p>

**Undertaking by the Management of the College in respect of deficiencies if self assessed by the College  
or if noticed by the Inspection Team**

Signature of the Principal / Director with Seal

Signature with Seal of the Chairman / Secretary / Trustee / Director of the College sponsoring Trust / Society / Company.

**Opinion of the Inspection Team in respect of *Establishment of new College / Variation in Intake / Introduction of additional course(s) / Extension of Affiliation***

**Recommended / Not Recommended for *Establishment of new College / Variation in Intake / Introduction of additional course(s) / Extension of Affiliation with following intake :***

**Recommended for *Establishment of new College / Variation in Intake / Introduction of additional course(s) / Extension of Affiliation with following intake subject to the fulfillment of following condition(s) :***

Signature of the Members of the Inspection Team

**SEMESTER WISE LABORATORY LIST (AICTE UG COURSES)**

**Semester wise Laboratory for all courses (AICTE Courses)-UG**

**B.Tech in Apparel & Production Management (2018-19) [As on dated 14.06.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3 <sup>rd</sup> Semester	ES TT 391	Theory of Machines Lab
	PC APM 391	Testing of Fibres and Yarns Lab
	PC APM 392	Apparel Production – I Lab
4 <sup>th</sup> Semester	ES TT 491	Numerical Method Lab
	ES TT 492	Digital Electronics & Microprocessor Lab
	PC APM 491	Textile Fabrics Formations Lab
	PC APM 492	Chemical Processing of Textile Lab I
	PC APM 493	Apparel Production Lab II
	HU 481	Technical Report Writing and Language Lab
5 <sup>th</sup> Semester	PC APM 591	Chemical Processing of Textile Lab II
	PC APM 592	Apparel Production Lab III
	PC APM 593	Testing of Fabric & Design Analysis Lab
	PE APM 591 A/B	Knitting & Knitwear Technology Lab/ Manufacturing of Apparel Allied Accessory Lab
6 <sup>th</sup> Semester	PC APM 691	Apparel Quality Assurance Lab
	PC APM 692	IT & CAD/CAM in Apparel Production Lab
	PC APM 693	Technology of Apparel Machinery and Maintenance lab
	PE APM 691A/B	Advance Pattern Making and Garment Construction Lab/ Home Furnishing Lab
7 <sup>th</sup> Semester	PC APM 791	Product Design Lab and Portfolio Presentation

**B.Tech in Applied Electronics & Instrumentation Engineering (2018-19) [As on dated 15.02.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3 <sup>rd</sup> Semester	PC-EI 391	Circuits and Network Lab
	PC-EI 392	Sensors and Transducers Lab
	PC-EI 393	Analog Circuits Design Lab
	PC-EI 394	Digital Circuits Design Lab
4 <sup>th</sup> Semester	PC-EI 491	Electrical & Electronic Measurement Lab
	PC-EI 492	Microprocessor and Microcontroller Lab
	ES-CS 491	Data Structure and algorithm Lab

	HMHU481	Advanced Language Lab
5 <sup>th</sup> Semester	PC-EI 591	Control System Lab
	OEEI591/OEEI 592	Object Oriented Programming Language Lab/Data Base Management System Lab
	PC-EI 592	Industrial Instrumentation Lab
6 <sup>th</sup> Semester	PC-EI691	Process Control Lab
	PC-EI692	Instrumentation System Design Lab
	OE-EI691/OE-EI692	Internet of Things Lab (IoT)/Artificial Intelligence Lab (AI)

### **Bachelor in Architecture (2019-20) [As on dated 28.01.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
1 <sup>st</sup> Semester	ARCH 183	Model Making
	ARCH 184	NSS/ ECA/NCC/ Sports
3 <sup>rd</sup> Semester	ARCH 383	Computer Education
	ARCH 384	Materials Testing Lab
4 <sup>th</sup> Semester	ARCH 483	Computer Graphics-I
5 <sup>th</sup> Semester	ARCH 583	Comp Graphics-II
6 <sup>th</sup> Semester	ARCH 683	Estimation & Valuation
7 <sup>th</sup> Semester	ARCH 783	Illumination
8 <sup>th</sup> Semester	ARCH 883	Office Management

### **B.Tech in Automobile Engineering (2018-19) [As on dated 14.06.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
1 <sup>st</sup> Semester	BS-PH 191	Physics-I Laboratory
	ES-EE191	Basic Electrical Engineering
	ES-ME192	Workshop/Manufacturing Practices
2 <sup>nd</sup> Semester	BS-CH291	Chemistry-I
	ES-CS291	Programming for Problem Solving
	ES-ME291	Engineering Graphics & Design (Gr- A)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PC-AUE391	Machine Drawing
4 <sup>th</sup> Semester	PC-AUE 491	Manufacturing & Testing Lab
	MC481	Environmental Science
5 <sup>th</sup> Semester	PC-AUE591	Fluid Mechanics & Heat Transfer Lab
	PC-AUE592	Automobile Engineering Lab I (Engine & Chassis Component Lab)

	PC-AUE593	Automobile Engineering Lab II (ETPM Lab)
6 <sup>th</sup> Semester	PC-AUE691	Automobile Engineering Lab III (Automotive Design Lab)
	PC-AUE692	Automobile Engineering Lab IV (Vehicle Maintenance Lab)
7 <sup>th</sup> Semester	PC-AUE 791	Automobile Engineering Lab V (Automotive Electrical & Electronics Lab)

### **B.Tech in Biomedical Engineering (2018-19) [As on dated 15.02.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	ES – EC 391	Analog Electronic Circuits Lab
	PC – BME 391	Signal Analysis Lab
	PC – BME 392	Physiology & Biochemistry Lab
	HM – HU 381	Interpersonal Skills & Technical Report Writing
4 <sup>th</sup> Semester	ES – EC 491	Digital Electronic Circuits Lab
	PC – BME 491	Biosensors & Transducers Lab
	PC – BME 492	Biomedical Instrumentation Lab
	PE – EE 491/ PE – EE 492	Professional Elective –I Lab
5 <sup>th</sup> Semester	PC – BME 591	Medical Equipments & Simulation Lab
	PC – BME 592	Medical Instruments & System Lab
	OE – EI 591/ OE – EI 592	Open Elective – I Lab
	OE – CS 591/ OE – CS 592	Open Elective – II Lab
6 <sup>th</sup> Semester	PC – BME 691	Biomedical Digital Signal Processing Lab
	PC – BME 692	Biomaterials & Biomechanics Lab
	OE – CS 691/ OE – CS 692 / OE – CS 693	Open Elective – III Lab
7 <sup>th</sup> Semester	PC – BME 791	Medical Image Processing Lab
8 <sup>th</sup> Semester	PROJ – BME 891	Design Lab / Industrial problem related practical

### **B.Tech in Biotechnology (2018-19) [As on dated 15.02.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	PC-BT391	Structure of Biomolecules Lab
	HM-BT391	Technical Report Writing and Language Lab

		Practices
	PC-BT392	Biochemistry Lab
	BS-BT391	Microbiology Lab
4 <sup>th</sup> Semester	OE-BT491	Numerical Methods and Biostatistics
	OE-BT492	Data Structure and Algorithms
	ES-BT491	Transfer Operation I Lab
	PC-BT402	Molecular Biology
5 <sup>th</sup> Semester	PC-BT591	Genetics Lab
	PC-BT592	Bioinformatics Lab
	ES-BT591	Transfer operation -II Lab
	OE-BT591	Data Base Management System Lab
6 <sup>th</sup> Semester	PC-BT691	Recombinant DNA Technology Lab
	PC-BT692	Immunology Lab
	PC-BT693	Plant Biotechnology Lab
	PC-BT694	Fermentation Technology and Bioseparation Lab
7 <sup>th</sup> Semester	PE-BT791	Food Biotechnology Lab (PE-BT791A)/ Bioprocess and Process Instrumentation Control Lab (PE-BT791B)

#### **B.Tech in Chemical Engineering (2018-19) [As on dated 03.02.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
4 <sup>th</sup> Semester	CHE-PC491	Numerical Methods in Chemical Engineering Lab
5 <sup>th</sup> Semester	CHE-PC591	Chemical Engineering Lab- I
6 <sup>th</sup> Semester	CHE-PC691	Chemical Engineering Lab- II
7 <sup>th</sup> Semester	CHE-PC791	Design & Simulation Lab
	CHE-PC792	Instrumentation & Control Lab

#### **B.Tech in Civil & Environmental Engineering (2018-19) [As on dated 28.01.2020]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3 <sup>rd</sup> Semester	CH391	Environmental Engineering Lab
	CH392	Chemistry-2 Lab
	CE392	Surveying Practice-I
	CE393	Building Design & Drawing
4 <sup>th</sup> Semester	HU481	Tech. Writing/Lang. Lab
	M(CS)491	Numerical Methods
	CE492	Surveying Practice - II

	CE493	Soil Mechanics Lab-I
	CHE484	Unit Operation Lab -I
5 <sup>th</sup> Semester	CE591	Soil Mechanics Lab-II
	CE592	Concrete Lab
	CE593	Quantity Surveying , Specification and Valuation
	CE594	Engineering Geology Laboratory
6 <sup>th</sup> Semester	CVE 691	Environmental Chemistry Lab
	FT692	Microbial Tech Lab
7 <sup>th</sup> Semester	CVE791	Environmental Engineering & Design Lab
	CVE792	Free Elective Laboratory

### **B.Tech in Civil Engineering (2018-19) [As on dated 15.02.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	CE(ES)391	Basic Electronics
	CE(ES)392	Computer-aided Civil Engineering Drawing
	CE(ES)393	Life Science
4 <sup>th</sup> Semester	CE(ES)491	Fluid Mechanics Laboratory
	CE(ES)492	Solid Mechanics Laboratory
	CE(ES)493	Engineering Geology Laboratory
	CE(PC)493	Surveying & Geomatics
	CE(PC)494	Concrete Technology Laboratory
5 <sup>th</sup> Semester	CE(PC)591	RC Design Sessional
	CE(PC)594	Soil Mechanics Laboratory
	CE(PC)595	Environmental Engineering Laboratory
	CE(PC)596	Transportation Engineering Laboratory
	CE(PC)597	Computer Application in CE
6 <sup>th</sup> Semester	CE(PC)693	Water Resource Engineering Laboratory
	CE(PC)694	Steel Structure Design Sessional
	CE(PC)695	Quantity Survey Estimation and Valuation Sessional

### **B.Tech in Computer Science & Engineering (2020-21) [As on dated 23.08.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	PCC-CS393	IT Workshop (Sci Lab/MATLAB/Python/R)
	ESC 391	Analog and Digital Electronics
	PCC-CS391	Data Structure & Algorithms

	PCC-CS392	Computer Organisation
4 <sup>th</sup> Semester	PCC-CS 492	Computer Architecture
	PCC- CS494	Design & Analysis of Algorithms
5 <sup>th</sup> Semester	ESC-591	Software Engineering
	PCC- CS592	Operating Systems
	PCC- CS593	Object Oriented Programming
6 <sup>th</sup> Semester	PCC- CS691	Database Management Systems
	PCC- CS692	Computer Networks

### **B.Tech in Electrical & Electronics Engineering (2018-19) [As on dated 21.12.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	PC-EEE-391	Electric Circuit Theory Laboratory
	PC-EEE-392	Analog Electronics laboratory
	PC-CS-391	Numerical Methods laboratory
4 <sup>th</sup> Semester	PC-EEE-491	Electric Machine-I laboratory
	PC-EEE-492	Digital Electronics laboratory
	PC-EEE-493	Electrical and Electronic measurement laboratory
	ES-ME-491	Thermal Power Engineering laboratory
5 <sup>th</sup> Semester	PC-EEE-591	Electric Machine-II laboratory
	PC-EEE-592	Control system laboratory
	PC-EEE-593	Power Electronics laboratory
6 <sup>th</sup> Semester	PC-EEE-691	Power system laboratory
	PC-EEE-692	Microprocessor & Microcontroller laboratory
	PC-EEE-681	Electrical & Electronic design laboratory
7 <sup>th</sup> Semester	PC-EEE 791	Analog and digital Communication laboratory
8 <sup>h</sup> Semester	PC-EEE-891	Digital Signal processing laboratory

### **B.Tech in Electrical Engineering (2018-19) [As on dated 21.12.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	PC-EE 391	Electric Circuit Theory Laboratory
	PC-EE 392	Analog Electronics laboratory
	PC-CS 391	Numerical Methods laboratory
4 <sup>th</sup> Semester	PC-EE 491	Electric machine-I laboratory
	PC-EE 492	Digital electronics laboratory
	PC-EE 493	Electrical and electronic measurement laboratory
	ES-ME 491	Thermal power engineering laboratory

5 <sup>th</sup> Semester	PC-EE 591	Electric Machine-II laboratory
	PC-EE 592	Power system-I laboratory
	PC-EE 593	Control system laboratory
	PC-EE 594	Power Electronics laboratory
6 <sup>th</sup> Semester	PC-EE 691	Power system-II laboratory
	PC-EE692	Microprocessor & microcontroller laboratory
	PC-EE 681	Electrical & Electronic design laboratory
7 <sup>th</sup> Semester	PC-EE 791	Electric Drive laboratory

### **B.Tech in Electronics & Communications Engg (2018-19) [As on dated 15.02.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	EC391	Electronic Devices Lab.
	EC392	Digital System Design Lab.
	ES-CS391	Data Structure Lab(ES)
4 <sup>th</sup> Semester	EC491	Analog Communication Lab
	EC492	Analog Electronic Circuits Lab.
	EC493	Microprocessor & Microcontrollers Lab
	BS-M(CS)491	Numerical Methods Lab
5 <sup>th</sup> Semester	HS-HU481	Soft Skill Development Lab
	EC591	Electromagnetic Wave Lab
	EC592	Digital Communication Lab.
	EC593	Digital Signal Processing Lab.
6 <sup>th</sup> Semester	EC692	Computer Network Lab.
	EC691	Control System and Instrumentation Lab.
	EC681	Mini Project/ Electronic Design Workshop

### **B.Tech in Electronics & Communications Engg (Industry Integrated) (2018-19) [As on dated 15.02.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3rd Semester	EC391	Electronic Devices Lab.
	EC392	Digital System Design Lab.
	ES-CS391	Data Structure Lab(ES)
4 <sup>th</sup> Semester	EC491	Analog Communication Lab
	EC492	Analog Electronic Circuits Lab.
	EC493	Microprocessor & Microcontrollers Lab
	BS-M(CS)491	Numerical Methods Lab
	HS-HU481	Soft Skill Development Lab

5 <sup>th</sup> Semester	EC591	Electromagnetic Wave Lab
	EC592	Digital Communication Lab.
	EC593	Digital Signal Processing Lab.
6 <sup>th</sup> Semester	EC692	Computer Network Lab.
	EC691	Control System and Instrumentation Lab.
	EC681	Mini Project/ Electronic Design Workshop

**B.Tech in Food Technology (2018-19) [As on dated 15.02.2022]**

Semester	Paper Code	Subjects
3rd Semester	PC-FT 391	Chemistry of Food Lab
	PC-FT 392	Microbiology of Food Lab
4 <sup>th</sup> Semester	ES-FT 491	Unit Operation Lab
	ES-FT 492	Biochemistry Lab
	BS-FT 491	Numerical Methods Lab
5 <sup>th</sup> Semester	PC-FT 591	Food Engineering Lab
	PC-FT 592	Food Analysis & Quality Control Lab-I
6 <sup>th</sup> Semester	PC-FT 691	Food Processing Lab
	PC-FT 692	Food Analysis & Quality Control lab-II
	OE-FT 691	Data Structure & Algorithm Lab/DBMS Lab
7 <sup>th</sup> Semester	PC-FT 791	Product development & quality assurance lab

**Bachelor in Hotel Management & Catering Technology (2019-2020) [As on dated 15.02.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	HM191	FOOD PRODUCTION PRACTICAL - 1
	HM192	FOOD & BEVERAGE SERVICE PRACTICAL - 1
	HM193	FRONT OFFICE PRACTICAL - 1
	HM194	HOUSE KEEPING PRACTICAL - 1
	HM196	APPLICATION OF COMPUTERS PRACTICAL - 1
2 <sup>nd</sup> Semester	HM291	FOOD PRODUCTION PRACTICAL - II
	HM292	FOOD & BEVERAGE SERVICE PRACTICAL -II
	HM293	FRONT OFFICE PRACTICAL - II
	HM294	HOUSE KEEPING PRACTICAL - II
3 <sup>rd</sup> Semester	HM391	FOOD PRODUCTION PRACTICAL- III
	HM392	FOOD & BEVERAGE SERVICE PRACTICAL -III
	HM393	FRONT OFFICE PRACTICAL - III
	HM394	HOUSE KEEPING PRACTICAL - III

4 <sup>th</sup> Semester	HM491A	FOOD PRODUCTION PRACTICAL - IV
	NHM492	FOOD & BEVERAGE SERVICE PRACTICAL - IV
	HM493	FRONT OFFICE PRACTICAL - IV
	HM494	HOUSE KEEPING PRACTICAL - IV
7 <sup>th</sup> Semester	HM791A/B/C/D	ADVANCED FOOD PRODUCTION AN PÂTISSERIE SPECIALISATION LAB/ADVANCED FOOD AND BEVERAGE SERVICE -II SPECIALISATION LAB/FRONT OFFICE MANAGEMENT (FOM) SPECIALISATION LAB/HOUSEKEEPING MANAGEMENT(HKM)SPECIALISATION LAB (CHOOSE ANY ONE)

### **B.Tech. in Information Technology (2018-19) [As on dated 02.05.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3 <sup>rd</sup> Semester	PCC-CS393	IT Workshop (Sci Lab/MATLAB/Python/R)
	ESC 391	Analog and Digital Electronics
	PCC-CS391	Data Structure & Algorithms
	PCC-CS392	Computer Organisation
4 <sup>th</sup> Semester	PCC-CS 492	Computer Architecture
	PCC- CS494	Design & Analysis of Algorithms
5 <sup>th</sup> Semester	ESC-591	Software Engineering
	PCC- CS592	Operating Systems
	PCC- CS593	Object Oriented Programming
6 <sup>th</sup> Semester	PCC- CS691	Database Management Systems
	PCC- CS692	Computer Networks

### **B.Tech in Instrumentation & Control Engineering (2018-19) [As on dated 15.02.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3 <sup>rd</sup> Semester	PC-IC391	Electric Circuit Lab
	PC-IC392	Analog circuits Design Lab
	PC-IC393	Digital Circuits Design Lab
	ES-CS391	Data Structure and algorithm Lab
4 <sup>th</sup> Semester	PC-IC491	Electrical & Electronic Measurement Lab
	PC-IC492	Sensor & Transducer
	PC-IC493	Microprocessor and Microcontroller Lab
	PC-IC494	Control system I Lab

5 <sup>th</sup> Semester	PC-IC591	Industrial Instrumentation Lab
	PC-IC592	Control System II
	OE-IC591/OE- IC592	Embedded System/DBMS Lab
6 <sup>th</sup> Semester	PC-IC691	Process control Lab
	PC-IC692	Instrumentation system Design Lab
	OEIC691/OE-IC692	IOT Lab/AI lab

**B.Tech in Leather Technology (2018-19) [As on dated 15.02.2022]**

Semester	Paper Code	Subjects
3 <sup>rd</sup> Semester	CH(LT) 391	Histology and Microbiology of Leather Manufacture Lab - I
	LT 391	Fluid Mechanics Lab
	LT 392	Tannery Practice I
	LT 393	Applied Information Technology Lab
4 <sup>th</sup> Semester	HU 481	Communication skill & Report Writing
	M(CS)491	Numerical Methods with C Programming
	LT 491	Tannery Practice II
	LT 492	Analytical Chemistry of Leather Auxiliaries Lab-I
	LT 493	Footwear Design Lab
	LT 494	Histology and Microbiology of Leather Manufacture Lab - II
5 <sup>th</sup> Semester	LT 591	Tannery Practice III
	LT 592	Leather Goods Design Lab
	LT 593	Studies on JAVA Lab
	LT 594	Analytical Chemistry of Processing
6 <sup>th</sup> Semester	LT 691	Physical Testing Lab
	LT 692	Mechanics of Leather Machines Lab
	LT 693	Instrumental Analysis of Leather & Leather Chemicals
	LT 694	DATABASE Management Lab
7 <sup>th</sup> Semester	LT 791	Tannery Practice IV
	LT 792	Analytical Chemistry of Leather Auxiliaries Lab- II
	LT 793	E-Commerce & Application Lab
8 <sup>th</sup> Semester	HU 891	Design Lab

**B.Tech in Mechanical Engineering (2018-19) [As on dated 06.04.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191	Physics-I Laboratory
	ES-EE191	Basic Electrical Engineering Laboratory
	ES-ME192	Workshop/Manufacturing Practices
2 <sup>nd</sup> Semester	BS-CH291	Chemistry-I Laboratory
	ES-CS291	Programming for Problem Solving
	ES-ME291	Engineering Graphics & Design (Gr-A)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PC-ME391	Practice of Manufacturing Processes
4 <sup>th</sup> Semester	PC-ME491	Practice of Manufacturing Processes and Systems Laboratory
	PC-ME492	Machine Drawing- I
	MC 481	Environmental Science
5 <sup>th</sup> Semester	PC-ME591	Mechanical Engineering Laboratory I (Thermal)
	PC-ME592	Machine Drawing-II
6 <sup>th</sup> Semester	PC-ME691	Mechanical Engineering Laboratory II (Design)
7 <sup>th</sup> Semester	PC-ME791	Mechanical Engineering Laboratory III (Manufacturing)

**Bachelor of Pharmacy (2021-22) [As on dated 21.02.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	PT195	Human Anatomy and Physiology– Practical
	PT191	Pharmaceutical Analysis I – Practical
	PT196	Pharmaceutics I – Practical
	PT193	Pharmaceutical Inorganic Chemistry – Practical
	PTB185	Remedial Biology – Practical (sessional)*
2 <sup>nd</sup> Semester	PT298	Human Anatomy and Physiology II –Practical
	PT296	Pharmaceutical Organic Chemistry I– Practical
	PT297	Biochemistry – Practical
3 <sup>rd</sup> Semester	PT382	Computer Applications In Pharmacy Practical (sessional)*
	PT 394	Pharmaceutical Organic Chemistry II – Practical
	PT 396	Physical Pharmaceutics I – Practical
	PT 399	Pharmaceutical Microbiology –Practical
	PT 397	Pharmaceutical Engineering –Practical

4 <sup>th</sup> Semester	PT493	Medicinal Chemistry I – Practical
	PT496	Physical Pharmaceutics II – Practical
	PT498	Pharmacology I – Practical
	PT492	Pharmacognosy and Phytochemistry I – Practical
5 <sup>th</sup> Semester	PT596	Industrial Pharmacy I – Practical
	PT598	Pharmacology II – Practical
	PT 592	Pharmacognosy and Phytochemistry II – Practical
6 <sup>th</sup> Semester	PT693	Medicinal chemistry III – Practical
	PT698	Pharmacology III – Practical
	PT692	Herbal Drug Technology – Practical
7 <sup>th</sup> Semester	PT791	Instrumental Methods of Analysis – Practical

### **B.Tech in Textile Technology (2018-19) [as on dated 14.06.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
3 <sup>rd</sup> Semester	ES TT 391	Theory of Machines Lab
	PC TT 391	Textile Fibre Lab
	PC TT 392	Yarn Formation Lab I
	PC TT 393	Textile Testing Lab I
4 <sup>th</sup> Semester	ES TT 491	Numerical Method Lab
	ES TT 492	Digital Electronics & Microprocessor Lab
	PC TT 491	Fabric Manufacturing Lab I
	PC TT 492	Textile Chemical Processing Lab I
	HU 481	Technical Report Writing and Language Lab
5 <sup>th</sup> Semester	PC TT 591	Yarn Formation Lab II
	PC TT 592	Fabric Manufacturing Lab II
	PC TT 593	Textile Chemical Processing Lab II
	PC TT 594	Textile Testing Lab II
6 <sup>th</sup> Semester	PC TT 691	Yarn Formation & Fabric Manufacturing Lab
	PC TT 692	Textile Chemical Processing Lab III
	PE TT 691 A/B	Theory of Elasticity Lab /Theory of Textile Structure Lab

7 <sup>th</sup> Semester	PE TT 791A/B/C	Colour Science in Textile Lab/ Home Furnishing Lab / IT and CAD & CAM in Textile Lab
	PE TT 792 A/B	Advances in Chemical Processing Lab / Apparel Technology Lab

**B.Tech. in Robotics (2020-21) [as on dated 15.02.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191	Physics-I Laboratory
	ES-EE191	Basic Electrical Engineering Laboratory
	ES-ME192	Workshop/ Manufacturing Practices
2 <sup>nd</sup> Semester	BS-CH291	Chemistry-I Laboratory
	ES-CS291	Programming for Problem Solving
	ES-ME291	Engineering Graphics & Design (Gr-A)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PC-ROB391	Analog & Digital Electronics Lab
	PC-ROB392	Practice of Manufacturing Processes
	PC-ROB393	Machine Drawing Lab -I
4 <sup>th</sup> Semester	PC-ROB491	Robotics Laboratory I (Strength of Materials)
	MC 481	Environmental Science
	PC-EE491	Electric Machines Laboratory
	PC-ROB492	Robotics Laboratory II (Fluid Power & Control)
	PC-EE493	Electrical & Electronics Measurements lab
5 <sup>th</sup> Semester	PC-ROB591	Robotics Laboratory III- Practice of Manufacturing Processes and Systems Laboratory
	PC-ROB592	Machine Drawing II
	PC-ROB593	Microprocessor & Microcontrollers Lab
	PC-EE591	Power Electronics Laboratory
6 <sup>th</sup> Semester	PC-ROB691	Computer Vision Lab
	PC- CS691	Artificial Intelligence & Machine Learning Laboratory
7 <sup>th</sup> Semester	PE- ROB791	Robotics laboratory IV- (Advanced Manufacturing

		Techniques)
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**B.Tech in Data Science (2020-21) [As on dated 10.05.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH 191/ BS-CH191	Physics-I Laboratory(Gr- A) / Chemistry-I Laboratory (Gr-B)
	ES- EE191	Basic Electrical Engineering Laboratory
	ES- ME191/ ES- ME192	Engineering Graphics & Design(Gr-B)/Workshop/ Manufacturing Practices(Gr-A)
2 <sup>nd</sup> Semester	BS-PH291/ BS-CH291	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A)
	ES-CS291	Programming for Problem Solving
	ES-ME291/ ES-ME292	Engineering Graphics & Design(Gr-A)/ Workshop/ Manufacturing Practices(Gr-B)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PCC- CS391	Data Structure & Algorithms Lab
	ESC391	Analog and Digital Electronics Lab
	PCC- CS392	Computer Organization
	PCC- DS391	Data Science Lab using Python
4 <sup>th</sup> Semester	PCC-DS 491	Database Management System Lab
	PCC- CS 494	Design & Analysis of Algorithms Lab
	PCC- DS492	Data Mining Lab
5 <sup>th</sup> Semester	ESC- 591	Software Engineering Lab
	PCC- CS592	Operating Systems Lab
	PCC- CS593	Object Oriented Programming Lab
6 <sup>th</sup> Semester	PCC- CS(DS)691	Artificial Intelligence Lab
	PCC- CS692	Data Communication and Computer Networks Lab
	PCC- DS693	Big Data Technology and OLAP Lab

**B.Tech in Computer Science and Engineering (Data Science) (2020-21) [As on dated 10.05.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191/ BS-CH191	Physics-I Laboratory(Gr- A) / Chemistry-I Laboratory (Gr-B)
	ES- EE191	Basic Electrical Engineering Laboratory
	ES- ME191/ ES- ME192	Engineering Graphics & Design(Gr-B)/ Workshop/Manufacturing Practices(Gr-A)
2 <sup>nd</sup> Semester	BS-PH291/ BS-CH291	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A)

	ES-CS291	Programming for Problem Solving
	ES-ME291/ ES-ME292	Engineering Graphics & Design(Gr-A)/ Workshop/ Manufacturing Practices(Gr-B)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PCC- CS391	Data Structure & Algorithms Lab
	ESC391	Analog and Digital Electronics Lab
	PCC- CS392	Computer Organization
	PCC- DS391	Data Science Lab using Python
4 <sup>th</sup> Semester	PCC-DS 491	Database Management System Lab
	PCC- CS 494	Design & Analysis of Algorithms Lab
	PCC- DS492	Data Mining Lab
5 <sup>th</sup> Semester	ESC- 591	Software Engineering Lab
	PCC- CS592	Operating Systems Lab
	PCC- CS593	Object Oriented Programming Lab
6 <sup>th</sup> Semester	PCC- CS(DS)691	Artificial Intelligence Lab
	PCC- CS692	Data Communication and Computer Networks Lab
	PCC- DS693	Big Data Technology and OLAP Lab

### **B.Tech in Artificial Intelligence and Machine Learning (2020-21) [as on dated 11.04.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subjects</b>
1 <sup>st</sup> Semester	BS-PH191	Physics-I Laboratory(Gr- A)
	ES- EE191	Basic Electrical Engineering Laboratory
	ES- ME192	Workshop/Manufacturing Practices(Gr-A)
2 <sup>nd</sup> Semester	BS-CH291	Chemistry-I Laboratory (Gr-A)
	ES-CS291	Programming for Problem Solving
	ES-ME291	Engineering Graphics & Design(Gr-A)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PCC- CS391	Data Structure & Algorithms Lab
	ESC391	Analog and Digital Electronics Lab
	PCC- CS392	Computer Organization
	PCC- CS393	IT Workshop(Python I)
4 <sup>th</sup> Semester	PCCAIML 491	Artificial Intelligence Lab
	PCCCS494	Design and Analysis of Algorithm Lab
	PCCAIML 492	Python II / R Programming Language Lab
5 <sup>th</sup> Semester	PCCCS592	Operating System Lab

	PCCCS59 3	Object Oriented Programming & Java Lab
	PCCAIML592	Machine Learning Lab
6 <sup>th</sup> Semester	PCCAIML 691	Machine Learning Applications lab
	PCCAIML 693	Soft Computing Lab
	PCCCS692	Computer Networks Lab

**B.Tech in Computer Science And Engineering (Internet of Things and Cyber Security including Block Chain Technology) (2020-21)  
[As on dated 24.05.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191/ BS-CH191	Physics-I Laboratory(Gr- A) / Chemistry-I Laboratory (Gr-B)
	ES- EE191	Basic Electrical Engineering Laboratory
	ES- ME191/ ES- ME192	Engineering Graphics & Design(Gr-B)/ Workshop/ Manufacturing Practices(Gr-A)
2 <sup>nd</sup> Semester	BS-PH291/ BS-CH291	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A)
	ES-CS291	Programming for Problem Solving
	ES-ME291/ ES-ME292	Engineering Graphics & Design(Gr-A)/ Workshop/ Manufacturing Practices(Gr-B)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PCCCS391	Data Structure and Algorithms
	ESC391	Analog and Digital Electronics
	PCCCS392	Computer Organization
	PCCCS393	IT Workshop (Python/Matlab/R)
4 <sup>th</sup> Semester	PCCICB49 1	Data Communication and Networks Lab
	PCCCS49 4	Design and Analysis of Algorithm Lab
5 <sup>th</sup> Semester	PCCICB591	IoT Application and Design Lab
	PCCCS592	Operating System Lab
	PCCICB593	Object Oriented Programming Lab
6 <sup>th</sup> Semester	PCCCS691	Database Management System lab
	PECICB691	Lab based on Cloud Computing/ Cyber law and 'Cy crime/ Steganography and Watermarking/ Software Engineering/ Digital Forensics (PECICB601)

**B.Tech in Artificial Intelligence And Data Science (2020-21) [as on dated 10.05.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191/ BS-CH191	Physics-I Laboratory(Gr-A)/ Chemistry-I Laboratory (Gr-B)
	ES-EE191	Basic Electrical Engineering Laboratory
	ES-ME191/ESME192	Engineering Graphics & Design(Gr-B)/ Workshop/ Manufacturing Practices (Gr-A)
2 <sup>nd</sup> Semester	BS-PH291/ BS-CH291	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A)
	ES-CS291	Programming for Problem Solving
	ES-ME291/ ES-ME292	Engineering Graphics & Design(Gr-A)/ Workshop/ Manufacturing Practices(Gr-B)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	PCCCS39 1	Data Structure and Algorithms
	ESC391	Analog and Digital Electronics
	PCCCS392	Computer Organization
	PCCCS39 3	IT Workshop (Python/Matlab/R I)
4 <sup>th</sup> Semester	PCCAIDS4 91	Artificial Intelligence
	PCCCS49 4	Design and Analysis of Algorithm
	PCCAIDS4 92	Python/Matlab/R II
5 <sup>th</sup> Semester	PCCCS592	Operating System
	PCCCS593	Object Oriented Programming & Java
	PCCAIDS592	Data Science
6 <sup>th</sup> Semester	PCCAIDS6 91	Big Data
	PCCCS69 1	Database Management System
	PCCCS69 2	Computer Networks

**B.Tech in Computer Science and Business System (2020-21) [As on dated 10.05.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191/ BS-CH191	Physics-I Laboratory(Gr-A)/ Chemistry-I Laboratory (Gr-B)
	ES-EE191	Basic Electrical Engineering Laboratory
	ES-ME191/ESME192	Engineering Graphics & Design(Gr-B)/ Workshop/ Manufacturing Practices (Gr-A)
2 <sup>nd</sup> Semester	BS-PH291/ BS-CH291	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A)

	ES-CS291	Programming for Problem Solving
	ES-ME291/ ES-ME292	Engineering Graphics & Design(Gr-A)/ Workshop/ Manufacturing Practices(Gr-B)
	HM-HU291	Language Laboratory
3 <sup>rd</sup> Semester	ESC-391	Digital Electronics Lab
	PCC-CSBS391	Data Structure & Algorithms Lab
	BSC-391	Computational Statistics Lab
4 <sup>th</sup> Semester	ESC-481	DESIGN THINKING
	PCC -492	Object Oriented Programming with C++ Lab
	PCC- 493	COMPUTER ORGANIZATION & ARCHITECHTURE
5 <sup>th</sup> Semester	PCC-CSBS 591	Computer Networks
	PCC-CSBS 592	Database Management Systems
	ESC 591	Software Engineering

**Bachelor in Hospitality and Tourism Administration (2020-2021) [as on dated 12.012.2020]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BHTA104	Business Communication
	BHTA105	Basic Knowledge of Computer

**B.Tech in Computer Science & Design (CSD) [ As on dated 08.09.2022]**

Semester	Paper Code	Subjects
3 <sup>rd</sup> Semester	PCC-CS393	IT Workshop (Sci Lab/ MATLAB/Python/R)
	ESC 391	Analog and Digital Electronics
	PCC-CS391	Data Structure & Algorithms
	PCC-CS392	Computer Organisation & Architecture
4 <sup>th</sup> Semester	PCC-CSD 491	Computer Graphics & Animation Lab
	PCC-CSD 492	Design & Analysis of Algorithms Lab
	PCC-CSD 493	Object Oriented Programming and Design Lab
5 <sup>th</sup> Semester	PCC-CSD591	AR, VR & MR Lab
	PCC-CSD592	Data Base Management System Lab
	PCC-CSD593	Operating System Design Lab
6 <sup>th</sup> Semester	PCC-CSD691	Game & App Design Lab
	PCC-CSD692	AI & ML Lab

**B.Tech in Ceramic Technology (2010-11) [As on dated 06.05.2022]**

Semester	Paper Code	Subjects
3 <sup>rd</sup> Semester	CT-391	Chemical Analysis Lab
	CS(CT)-391	Software Lab
	CHE(CT)-392	Unit Operation Lab
	CT-392	Physical Testing of Ceramic Raw materials
4 <sup>th</sup> Semester	Engg. Sc	Fuel Testing Lab
	Prof. Core I	Geology Lab
	Prof. Core II	Instrumental Analysis Lab
5 <sup>th</sup> Semester	CT 591	Refractories Lab
	CT 592	Glass Lab
	CT 593	Whitewares Lab
	Free Elective CT 594A(IT 594D)	Operation Research Lab
	CT 594B(CS 691)	DBMS Lab
	CT 594C(CS504D)	Object Oriented Programming Lab
6 <sup>th</sup> Semester	CT 691	Cement & Concrete Lab
	CT 692	Materials Characterization Lab
	CT 693	Metal & Ceramic coating Lab
7 <sup>th</sup> Semester	CT 793	Monolithic Lab
	CT 795	Quality Management Lab

**B.Tech in Marine Engineering (2010-11) [As on dated 06.05.2022]**

Semester	Paper Code	Subjects
3 <sup>rd</sup> Semester	PH - 391	Physics - 2
	MML – 306	Mechanical Lab - I
	MWP – 307	Workshop Practical
	MMD - 308	Machine Drawing
4 <sup>th</sup> Semester	HU - 481	Communication skill & Report writing Lab
	MSML - 408	Practical Seamanship and Elementary Navigation Lab
	MED - 410	Marine Engineering Drawing
	MMT - 411	Materials Testing Lab
5 <sup>th</sup> Semester	MEML - 507	Electrical Machine Lab

	MML - 508	Mechanical Lab – II
	MEDR - 510	Marine Engineering Design & Drawing - I
6 <sup>th</sup> Semester	MMBL - 607	Boiler Chemical Lab & Fuel Oil & L Oil testing Lab
	MML - 608	Mechanical Lab – III
7 <sup>th</sup> Semester	MPPL - 707	Power Plant Lab
	MEML - 708	Electrical Measurement Lab
	MFCL – 709	Fire Control Lab
8 <sup>th</sup> Semester	MCTR - 806	Control & Simulator Lab

**B.Tech in Power Engineering (2010-11) [As on dated 06.05.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191/ BS-CH191	Physics-I Laboratory(Gr-A)/ Chemistry-I Laboratory (Gr-B)
	ES-EE191	Basic Electrical/Electronics Engineering Laboratory
	ES-ME191/ESME192	Engineering Graphics & Design(Gr-B)/ Workshop/ Manufacturing Practices (Gr-A)
2 <sup>nd</sup> Semester	BS-PH291/ BS-CH291	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A)
	CS 291	Basic Computation & Principles of Computer Programming
	ES291	Basic Electrical/Electronics Engineering Laboratory II
	ME291/ 292	Workshop Practice (Gr-B)/Basic Engg Drawing & Computer Graphics (Gr-A)
3 <sup>rd</sup> Semester	M(CS) 391	Numerical methods
	ME-393	Engineering Materials
	ME-394	Strength of Materials
	EE-391	Electric Circuit theory
	HU 381	Technical Report Writing and Lang Lab Practice
4 <sup>th</sup> Semester	ME-491	Fluid Mechanics & Hydraulic Machines Lab
	EE-492	Electrical & Electronic measurement Lab

	PH-491	Physics-II Lab
5 <sup>th</sup> Semester	PWE-591	Electrical Machines Lab
	PWE(ME)-592	Heat Transfer Lab
	PWE 595A OR	Refrigeration lab
	PWE 595B	Microprocessor & Digital electronics Lab
6 <sup>th</sup> Semester	PWE-691	Combustion Lab
	PWE-692	Study of Power Plant & T&D Schemes
7 <sup>th</sup> Semester	PWE 792	Control & Instrumentation Lab.
	PWE-793	Protection Lab.

**B.Tech in Production Engineering (2010-11) [as on dated 06.05.2022]**

Semester	Paper Code	Subjects
1 <sup>st</sup> Semester	BS-PH191/ BS-CH191	Physics-I Laboratory(Gr-A)/ Chemistry-I Laboratory (Gr-B)
	ES-EE191	Basic Electrical/Electronics Engineering Laboratory
	ES-ME191/ESME192	Engineering Graphics & Design(Gr-B)/ Workshop/ Manufacturing Practices (Gr-A)
2 <sup>nd</sup> Semester	BS-PH291/ BS-CH291	Physics-I Laboratory (Gr-B)/ Chemistry-I Laboratory (Gr-A)
	CS 291	Basic Computation & Principles of Computer Programming
	ES291	Basic Electrical/Electronics Engineering Laboratory II
	ME291/ 292	Workshop Practice (Gr-B)/Basic Engg Drawing & Computer Graphics (Gr-A)
3 <sup>rd</sup> Semester	HU-381	Technical Report Writing & Language Lab Practice
	PH 391	Physics Lab II
	ME 391	Machine Drawing –I
	ME 392	Workshop Practice-II

	ME 393	Applied Mechanics Lab
4 <sup>th</sup> Semester	M(CS)491	Numerical Methods Lab
	ME491	Fluid Mechanics & Hydraulics Lab
	ME 492	Manufacturing Technology Lab
	ME493	Material Testing Lab
	ME 494	Machine Drawing-II
5 <sup>th</sup> Semester	ME 592	Applied Thermodynamics & Heat Transfer Lab
	ME 593	Design Practice-I
	ME594	Metrology & Measurement Lab
	PE 591A/B	Professional Elective Lab-I **
6 <sup>th</sup> Semester	PE 691	Machining Technology & Machine tools Systems Lab
	ME 692	IC Engine Lab
	ME 693	Design Practice-II
7 <sup>th</sup> Semester	PE 791	CAD-CAM Laboratory

#### **M.Tech in VLSI and Micro-Electronics [As on dated 27.07.2022]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	MVLSI 191	CAD Tools for VLSI Design
	MVLSI 192A/B	1. Microelectronic Technology / 2. Embedded Systems
2 <sup>nd</sup>	MVLSI 291A/B	1. Microelectronic Technology / 2. Embedded Systems

#### **M.Tech in Microelectronics and VLSI Technology (2019-20) [As on dated 26.10.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	PGMVD-191	Microelectronics Lab-I ( Fabrication Technics)
	PGMVD-192	VLSI Design Lab-I
2 <sup>nd</sup>	PGMVD-291	Microelectronics Lab-II (Characterisation)
	PGMVD-292	VLSI Design Lab-II

**M.Tech in VLSI Design (2021-22) [As on dated 26.10.2021]**

Semester	Paper Code	Subject
1 <sup>st</sup>	MVDL191	Semiconductor Device Modelling Lab
	MVDL192	Digital VLSI Design Lab
2 <sup>nd</sup>	MVDL291	Analog VLSI Design Lab
	MVDL292	Testing and Verifications Lab
3 <sup>rd</sup>	MVDL391	Machine Learning using Python

**M.Tech in Electronics & Communication Engg (2018-19) [As on dated 19.09.2019]**

Semester	Paper Code	Subject
1 <sup>st</sup>	MCE 191	Advanced Communication Networks Lab
	MCE 192	Wireless and Mobile Communication Lab
2 <sup>nd</sup>	MCE 291	Antennas and Radiating Systems lab
	MCE 292	Advanced Digital Signal Processing Lab

**M.Tech in Leather Technology [As on dated 23.08.2021]**

Semester	Paper Code	Subject
1 <sup>st</sup>	MLT 191	Leather Auxiliaries Laboratory - I
	MLT 192	Biotechnology Laboratory - I
2 <sup>nd</sup>	MLT 291	Leather Auxiliaries Laboratory - II
	MLT 292	Instrumental Analysis Laboratory
3 <sup>rd</sup>	MLT 391	Biotechnology Laboratory - II
	MLT 392	Advanced Techniques in Leather Processing
	MLT 393	Materials Testing Laboratory

**M.Tech in Information Technology [As on dated 26.12.2019]**

Semester	Paper Code	Subject
1 <sup>st</sup>	PGIT191	Real Time Operating System Laboratory
	PGIT192	College Specific Lab: A. Communication System Lab (IEM)
2 <sup>nd</sup>	PGIT291	Elective PART 1: Java & Web Tech Lab PART 2: Dot Net Lab [BCRCE-Durgapur] PART3: Advanced Computer Network & Security Lab (IEM)

**M.Tech in Computer Science & Engineering [As on dated 25.11.2019]**

Semester	Paper Code	Subject
1 <sup>st</sup>	PGCSE191	Operating System Laboratory
	PGCSE192	A) Advanced Programming Lab
2 <sup>nd</sup>	PGCSE291	Part-I – Computer Networking & DBMS Laboratory

**M.Tech in Geo-Technical Engineering**

Semester	Paper Code	Subject
1 <sup>st</sup>	GTE 191	Geotechnical Laboratory -I
	GTE 192	Computer Application in Engineering
2 <sup>nd</sup>	GTE 291	Geotechnical Investigation Practice
	GTE 292	Geotechnical Laboratory -II

**M.Tech in Structural Engineering**

Semester	Paper Code	Subject
1 <sup>st</sup>	SE191 Structural Laboratory I	
	SE192 CAD LAB	

**M.Tech in Control & Instrumentation**

Semester	Paper Code	Subject
1 <sup>st</sup>	CIM191	Laboratory I
	CIM192	Laboratory II
2 <sup>nd</sup>	CIM291	Laboratory III
	CIM292	Laboratory IV

**M.Tech in Manufacturing Technology (2021-22) [As on dated 21.09.2021]**

Semester	Paper Code	Subject
1 <sup>st</sup>	MT191	Manufacturing Technology Lab
	MT192	Machine Tools and Control Lab
2 <sup>nd</sup>	MT291	Modelling & Simulation Lab
	MT292	Flexible Manufacturing System Lab

**M.Tech in Mechatronics Engineering**

Semester	Paper Code	Subject
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1 <sup>st</sup>	ME191	Sensors & Signal Conditioning Lab
	ME192	Mechatronic Systems Lab
2 <sup>nd</sup>	ME292	Mechatronics Lab

#### **M.Tech in Mechanical Design (2017-18) [As on dated 06.08.2019]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	MED191	Design Practice Lab-I
	MED192	CAD/CAM Lab

#### **M.Tech in Production Engineering (2021-22) [As on dated 21.09.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	PEM 191	Manufacturing Process Laboratory
	PEM 192	Design Laboratory-I
2 <sup>nd</sup>	PEM 291	Manufacturing Process and Systems Laboratory
	PEM 292	Design Laboratory-II

#### **M.Tech in Multimedia & Software Systems [As on dated 14.08.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	MMS191	Software Development Lab
	MMS192	Multimedia Lab
2 <sup>nd</sup>	MMS291	Object Technology Lab

#### **M.Tech in Food Technology [As on dated 14.08.2021]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	PGFT191	Advanced Microbial Technology Laboratory
	PGFT192	Advanced Food Processing Laboratory
2 <sup>nd</sup>	PGFT291	Advanced Food Product Development and Quality Evaluation Laboratory
3 <sup>rd</sup>	PGFT391	Information System Laboratory

#### **M.Tech in Electrical Engineering (Power Electronics and Drives)**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	PEM191	Laboratory I
	PEM192	Laboratory II
2 <sup>nd</sup>	PEM291	Laboratory III

	PEM292	Laboratory IV
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#### **M.Tech in Electrical Engineering (Control & Automation)**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	CAM191	Laboratory I
	CAM192	Laboratory II
2 <sup>nd</sup>	CAM291	Laboratory III
	CAM292	Laboratory IV

#### **M.Tech in Electrical Engineering (Electrical Devices & Power System)**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	EDPM191	Laboratory I
	EDPM192	Laboratory II
2 <sup>nd</sup>	EDPM291	Laboratory III
	EDPM292	Laboratory IV

#### **M.Tech in Electrical Engineering (Power Systems) [As on dated 27.09.2019]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	PSM191	Laboratory I
	PSM192	Laboratory II
2 <sup>nd</sup>	PSM291	Laboratory III
	PSM292	Laboratory IV

#### **M.Tech in Electrical Machine & Drives (2017-18) [As on dated 06.01.2019]**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	EEMD191	Machine & Drives Lab
	EEMD192	Control and Power Electronics Lab
2 <sup>nd</sup>	EEMD291	Drives & Simulation Lab

#### **M.Tech in Heat Power Engineering**

<b>Semester</b>	<b>Paper Code</b>	<b>Subject</b>
1 <sup>st</sup>	MHPE-191	Thermal Engineering Laboratory-I
	MHPE-192	Thermal Engineering Laboratory-II
2 <sup>nd</sup>	MHPE291	Thermal Engineering Laboratory-III (CFD)

**M.Tech. in Computer Science and Engineering (IOT) (2021-22) [As on dated 07.07.2022]**

Semester	Paper Code	Subject
1 <sup>st</sup>	PGIT(IoT)192	Laboratory 1 (Advanced Data Structures)
	PGIT(IoT)193A/B/ C	Laboratory 2 (Based on Elective I)
	PGIT(IoT)194A/B/ C	Laboratory 3 (Based on Elective II)
2 <sup>nd</sup>	PGIT(IoT)291	Advanced Computer Architecture Lab
	PGIT(IoT)292	Wireless and Sensor Networks Lab

**M.Tech. in Computer Science and Engineering (Artificial Intelligence) [As on dated 27.10.2021]**

Semester	Paper Code	Subject
1 <sup>st</sup>	PGCSE(AI)191	Laboratory I – Python and Artificial Intelligence Lab
	PGCSE(AI)192	Laboratory II – Machine Learning Lab
2 <sup>nd</sup>	PGCSE(AI)291	Laboratory I – Knowledge Representation and Reasoning Lab

**M.Tech. in (Data Science) [As on dated 09.12.2021]**

Semester	Paper Code	Subject
1 <sup>st</sup>	PGIT(DS)192	Laboratory 1 (Advanced Data Structures)
	PGIT(DS)193A/B/C/D	Laboratory 2 (Based on Elective 1)
	PGIT(DS)194A/B/C/D	Laboratory 3 (Based on Elective 2)
2 <sup>nd</sup>	PGIT(DS)291	Advanced Computer Architecture Lab
	PGIT(DS)292	Advanced Database Lab
	PGIT(DS)293A/B	Big Data Analytics lab/ Data Warehouse and Data Mining lab

**M.Tech in Artificial Intelligence & Data Science [As on dated 08.08.2022]**

Semester	Paper Code	Subject
1 <sup>st</sup>	PGCS (AI & DS )192	Laboratory 1 (Advanced Data Structure and Algorithms Lab)
	PGCS (AI & DS)193A/B/C	Laboratory 2 (Elective-I)
2 <sup>nd</sup>	PGCS (AI & DS) 292	Laboratory 3 (Artificial Intelligence Lab)
	PGCS (AI & DS) 293A/B/C	Laboratory 4 (Elective III Lab)

**Master of Computer Applications [As on dated 20.07.2022]**

1 <sup>st</sup>	MCAN-190	Soft Skill and Interpersonal Communication
	MCAN-191	Python Programming Lab
	MCAN-192	Relational Database Management System Lab
2 <sup>nd</sup>	MCAN-291	Data Structure Lab with Python
	MCAN-292	Operating System Lab (Unix)
	MCAN-293	Object Oriented Programming Lab using JAVA

**M.Pharm in Pharmaceutics [As on dated 25.05.2022]**

Semester	Paper Code	Subject
1 <sup>st</sup>	MPT 1965	Pharmaceutics Practical I
2 <sup>ND</sup>	MPT 2065	Pharmaceutics Practical II

**M.Pharm in Pharmacology [As on dated 25.05.2022]**

Semester	Paper Code	Subject
1 <sup>st</sup>	MPT 1985	Pharmacology Practical I
2 <sup>ND</sup>	MPT 2985	Pharmacology Practical II

**M.Pharm in Pharmaceutical Chemistry [As on dated 25.05.2022]**

Semester	Paper Code	Subject
1 <sup>st</sup>	MPT1935	Pharmaceutical Chemistry Practical
2 <sup>ND</sup>	MPT 2935	Pharmaceutical Chemistry Practical

**M.Pharm in Pharmaceutical Biotechnology [As on dated 25.05.2022]**

SEMESTER	PAPER CODE	SUBJECT
1 <sup>st</sup>	MPB 105P	Pharmaceutical Biotechnology Practical I
2 <sup>nd</sup>	MPB 205P	Pharmaceutical Biotechnology Practical II

**M.Pharm in Industrial Pharmacy (2021-2022) as on 15.12.2021**

SEMESTER	PAPER CODE	SUBJECT
1 <sup>st</sup>	MIP 191	Industrial Pharmacy Practical I
2 <sup>nd</sup>	MIP 291	Industrial Pharmacy Practical II