

**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 (2019-20). 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. 2020-2021, N-1 = (2019-2020),

N-2 = (2018-2019) and N+1 = (2021-2022)]

[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 2020-21)	Proposed Intake for academic year (N+1)	Total Intake (Course/Branch-wise)
Total Intake (Year-wise)					
Grand Total Intake					

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)

	Numbers of Rooms required	Carpet Area in sq.mt. per Room
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
No. of Class Rooms (size 66 sq.mt each)				
No. of Tutorial Rooms (size 33 sq.mt. each)				
No. of PG Class Rooms (size 33 sq.mt. each)				
No. of Laboratories other than First year (size 66 sq.mt. each)				
No. of Laboratory for Post Graduate Courses (size 66 sq.mt.)				
No. of Research Laboratory for Post Graduate (size 66 sq.mt.)				
No. of Work Shop (size 200 sq.mt. each)				
No. of Additional Laboratory / Workshop for “X” Category Courses (size 200 sq.mt. each)				
No. of Computer Centre (size 150 sq.mt. each)				
No. of Drawing Hall (size 132 sq.mt. each)				
No. of Library (size 400 sq.mt. each)				
No. of Language Laboratory (size 66 sq.mt.)				
No. of Seminar Hall (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

Class Rooms	Number of Rooms required	Carpet Area in sq.mt. per Room
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
No. of Class Rooms (size 66 sq.mt. each)				
No. of Tutorial Rooms (size 33 sq.mt.. each)				
No. of PG Class Rooms (size 33 sq.mt.. each)				
No. of Laboratory for Post Graduate (size 75 sq.mt.)				
No. of Laboratories (for first year) (other than First year) (size 75 sq.mt. each)				
No. of Computer Centre inclusive of Language Laboratory (size 75 sq.mt. each)				
No. of Library (size 150 sq.mt. each)				
Machine Room (size 75 sq.mt.)				
Instrument Room (Second Year) (size 75 sq.mt.)				
No. of Animal House (size 75 sq. mt.)				
No. of Seminar Halls (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)

	Number of Rooms required	Carpet Area in sq.mt. per Room
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
No. of Class Rooms (size 66 sq.mt. each)				
No. of Tutorial Rooms (size 33 sq.mt. each)				
No. of Computer Laboratories (size 66 sq.mt. each)				
No. of Computer Centre (size 150 sq.mt. each)				
No. of Library (size 100 sq.mt. each)				
No. of Seminar Hall (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]

	Number of Rooms required	Carpet Area in sq.mt. per Room
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
No. of Class Rooms (size 66 sq.mt. each)				
No. of Tutorial Rooms (size 33 sq.mt. each)				
No. of Laboratories (Guest Room/ House Keeping / Front Office) for First Year (size 66 sq.mt. each)				
No. of Laboratories (Guest Room/ House Keeping / Front Office) for other than First Year (size 66 sq.mt. each)				
No. of Laboratory/ Guest Room for Post Graduate (size 66 sq. mt. each)				
No. of Computer Centre (size 75 sq.mt. each)				
No. of Library (size 150 sq.mt. each)				
No. of Seminar Hall (size 132 sq.mt. each)				
No. of Kitchen with Dining Hall (size 132 sq.mt. each)				
No. of Restaurant (size 66 sq.mt. each)				
No. of Language Laboratory (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)

	Numbers of Rooms required	Carpet Area in sq.mt. per Room
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
No. of Class Rooms (size 66 sq.mt. each)				
No. of PG Graduate Studio (size 60 sq.mt. each)				
No. of Studio (other than First Year) (size 120 sq.mt.)				
No. of Computer Laboratory (for First Year) (size 60 sq.mt. each)				
No. of Model making and Carpentry Workshop (size 120 sq.mt each)				
No. of Computer Centre (size 75 sq.mt. each)				
No. of Art Court (size 100 sq.mt.)				
No. of Multi-Purpose Hall (size 150 sq.mt.)				
No. of Library (size 150 sq.mt. each)				
No. of Seminar Hall (size 132 sq.mt. each)				
Language Laboratory (size 60 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	

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	<u>150*</u> <u>300\$</u>	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
No. of Principal / Director Office (size 20 sq.m. each)				
No. of Board Room (size 20 sq.m. each)				
No. of Office all inclusive (size 150 / 300 sq.m. each)				
No. of Cabins for Head of Departments and Department Offices (size 20 sq.m. each)				
No. of Faculty Rooms (size 5 sq.m. each)				
No. of Central Stores (size 30 sq.m. each)				
No. of Maintenance (size 10 sq.m. each)				
No. of Security (size 10 sq.m. each)				
No. of Housekeeping (size 10 sq.m. each)				
No. of Pantry for Staff (size 10 sq.m. each)				
No. of Examinations Control Office (size 30 sq.m. each)				
No. of Placement Office (size 30 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

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	Adequate	Adequate
Carpet Area in sq.mt. per room for Technical Campus having one Program	150 ^s	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
No. of Toilets (Ladies & Gents) (size 350/150 sq.m.in total)				
No. of Boys Common Room (size 100/75 sq.m. each)				
No. of Girls Common Room (size 100/75 sq.m. each)				
No. of Cafeteria (size 150 sq.m. each)				
No. of Stationery Store & Reprography (size 10 sq.m. each)				
No. of First Aid cum Sick room (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
Principal's quarter (size 150 sq.m. each)				
Guest House (size 30 sq.m. each)				
Sports Club / Gymnasium (size 200/100 sq.m.)				
Auditorium / Am phi Theater (Size 400 / 250 sq.m.)				
Boys Hostel				
Girls Hostel				

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
No. of PCs/Laptops to students ratio (Min 20 PCs)				
No. of Legal System Software				
No. of Legal Application Software				
LAN and Internet for number of PCs				
Mail Server & Client				
Internet speed required as per approved intake of the Institution	Approved Intake- Internet speed Mbps			
No. of Black Printers				
No. of Color Printers				

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 ^s Required	200# 100 ^s	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
No. of Book Titles #(course-wise) in the College Library				
No. of Volumes #(course-wise) in the College Library				
No. of Journals Published in India (course-wise) in the College Library	Essential			
No. of Journals Published at Abroad (course-wise) in the College Library	Desirable			
Reading Room's seating capacity for the number of students 15% (Max 150) for UG and 25% (Max 100) for PG				
Multimedia PCs for Digital Library / Internet Surfing located in reading room	Essential			
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.				
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
Reprographic facility in the library	Essential			
Component for additional Division / Course				
Books shall also include subjects of Science and Humanities Management and Social Science as per the requirements of the Curriculum and Syllabus.				
Document scanning facility in the library	Essential			
Annual Increment equally distributed per subject				
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.				
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
Digital Library facility with multimedia facility	Essential			
Library books/non books classification as per standard classification methods and cataloging system is essential	Essential			
Facilities to access the Online Courses are essential.	Essential			
Library automation software including Bar coding is desirable	Desired			
Institution should be a member of National Digital Library. Aggregators shall also be used.				

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	$\frac{S}{20xR} - 1$	$\frac{S}{20xR} \times 2$	$\frac{S}{20xR} \times 6$	$\frac{S}{20}$
S - Sum of number of students as per "Approved Intake" for all years, R = (1+2+6)						

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 OR BE / B. Tech and MCA with First class or equivalent in either BE / B. Tech or MCA OR 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 OR 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"> *Teaching and research organization of State/ Central Government Institutions/ Universities *Central and State Public Sector undertakings(PSUs) *Reputed Industries. * Civil Servants (IAS/IPS/Officials from Central and Provincial Services) and Professionals and Officials from Professional Councils. *NRIs and PIOs working with reputed overseas academic, research and Industrial organizations or having a demonstrated in Indian issues.
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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.

Grade Point	Equivalent Percentage
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.(c) Availability of Faculty (Professor) (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid AICTE norms:

No. of Professor(s) (branch-wise) [Science / Humanities / Engineering / Technology / Pharmacy / Computer Application / Management / Hotel Management and Catering Technology]	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
e.g. : <u>Science</u> Physics Chemistry Mathematics <u>Humanities</u> Economics English <u>Engg. & Technology</u> CSE CE EE EEE _____ _____ _____ HMCT Management (MBA)/MCA Architecture/ B.Arch. (General)	_____ Nos. _____ Nos.	_____ Nos. _____ Nos.		
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.(e) Availability of Faculty (Associate Professor) (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid AICTE norms :

No. of Professor(s) (branch-wise) [Science / Humanities / Engineering / Technology / Pharmacy / Computer Application / Management / Hotel Management and Catering Technology]	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
e.g. : <u>Science</u>	_____ Nos.	_____ Nos.		
Physics	_____ Nos.	_____ Nos.		
Chemistry	_____ Nos.	_____ Nos.		
Mathematics	_____ Nos.	_____ Nos.		
	_____ Nos.	_____ Nos.		
<u>Humanities</u>	_____ Nos.	_____ Nos.		
Economics	_____ Nos.	_____ Nos.		
English	_____ Nos.	_____ Nos.		
	_____ Nos.	_____ Nos.		
<u>Engg. & Technology</u>	_____ Nos.	_____ Nos.		
CSE	_____ Nos.	_____ Nos.		
CE	_____ Nos.	_____ Nos.		
EE	_____ Nos.	_____ Nos.		
EEE	_____ Nos.	_____ Nos.		
_____	_____ Nos.	_____ Nos.		
_____	_____ Nos.	_____ Nos.		
_____	_____ Nos.	_____ Nos.		
	_____ Nos.	_____ Nos.		
HMCT	_____ Nos.	_____ Nos.		
Management (MBA)/MCA	_____ Nos.	_____ Nos.		
	_____ Nos.	_____ Nos.		
Architecture/ B.Arch. (General)	_____ Nos.	_____ Nos.		
	_____ Nos.	_____ Nos.		
	_____ Nos.	_____ Nos.		
	_____ Nos.	_____ Nos.		

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.(g) Availability of Faculty (Assistant Professor) (for Engg./Pharmacy/HMCT/MBA/MCA/ARCH) taking into account the aforesaid AICTE norms :

No. of Assistant Professor(s) (branch-wise) [Science / Humanities / Engineering / Technology / Pharmacy / Computer Application / Management / Hotel Management and Catering Technology]	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
<p>e.g. : <u>Science</u></p> <p>Physics</p> <p>Chemistry</p> <p>Mathematics</p> <p> </p> <p> <u>Humanities</u></p> <p>Economics</p> <p>English</p> <p> </p> <p> <u>Engg. & Technology</u></p> <p>CSE</p> <p>CE</p> <p>EE</p> <p>EEE</p> <p>_____</p> <p>_____</p> <p>_____</p> <p> </p> <p>Architecture/ B.Arch. (General)</p>	<p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p>	<p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p> <p>_____ Nos.</p>		

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	Essential
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)*	Essential
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)*	Essential
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 th June 2016*	Essential
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)*	Essential
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	Essential
20	Digital payment for all financial transactions as per MHRD directives	Essential
21	Compliance of the National Academic Depository (NAD) as per MHRD directives, (Applicable for standalone Institutions and University)	Essential
22	Provision to watch MOOCS through SWAYAM	Essential
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	Essential
24	Implementation of Food Safety and Standards Act, 2006 at the Institution	Essential
25	Institution-Industry Cell	Essential
26	Applied for membership of National Digital Library	Essential
27	Group Accident Policy to be Provided for the Employees	Essential

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	Essential
29	Students Safety Insurance	Essential
30	Establishment of Online Grievance Redressal Mechanism as per Annexure 13 of Approval Process Handbook 2020-21	Essential
31	Internal Quality Assurance Cell*	Essential
32	Implementation of mandatory Internship policy for student**	Essential
33	Implementation of Teacher Tanning policy	Essential
34	Implementation of Examination reforms (Applicable for Standalone Institutions and University)****	Essential
35	Sports facilities	Essential
36	Implementation of student Induction Programme***	Essential
37	At least 5 MOUs with Industries	Essential
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)	Essential			
Appointment of Student Counselor	Essential			
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)	Essential			
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.	Essential			
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)	Essential			
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).	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]
			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	Essential			
Establishment of Online Grievance Redressal Mechanism as per Annexure 13 of Approval Process Handbook 2020-21	Essential			
Internal Quality Assurance Cell	Essential			
Implementation of mandatory Internship policy for student	Essential			
Implementation of Teacher Tanning policy	Essential			
Implementation of Examination reforms (Applicable for Standalone Institutions & University)	Essential			
Sports facilities	Essential			
Implementation of student Induction Programme	Essential			
Rain Water Harvesting	Essential			
Waste Management and environment improvement measures to ensure a sustainable Green Campus	Essential			
General Insurance provided for assets against fire, burglary and other calamities	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]
			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	Desirable		
Innovation Cell / Club	Desirable		
Social Media Cell	Desirable		
Participation in the National Innovation Ranking	Desirable		
Transport	Desirable		
Public Announcement system at strategic locations for general announcement / paging and announcements in emergency.	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

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	Subjects Code	Subjects
Bio Medical Engineering		
3 rd	M(CS) 391	Numerical Methods Lab
	BME 391	Biophysical Signals & Systems Ltd.
	BME(EC) 391	Circuits & Networks Lab
	BME 392	Physiology Lab
4 th	BME 491	Bio Physics & Bio Chemistry Lab
	BME 492	Biosensors & Transducers Lab
	BME (EC) 492	Digital Electronics & Integrated Circuits Lab
5 th	BME 591	Bio Medical Instrumentation Lab
	BME 592	Bio Medical Equipments Lab
	BME 593	Communication Engineering Lab
	BME 594 A/B/C	Elective (Data Structure & C Lab/OOP & Java Lab/Computer Organisation Lab)
6 th	BME 691	Medical Instruments Lab
	BME692	Bio Medical Signal Processing Lab
	BME 694 A/B	Microprocessor & Microcontrollers Lab/VLSI Design Lab
7 th	BME 791	Bio Materials & Bio mechanics Lab
	BME 792	Bio Medical Instruments & Systems Lab
	BME 793	Adaptive Signal Processing Lab
	BME 793A	Medical Image Processing Lab
8 th	BME 892	Design Lab/ Industrial problem related prac. Training.
Ceramic Technology		
3 rd	CT 391	Chemical Analysis Lab
	CSE(CT) 391	Software Lab
	CHE (CT) 392	Unit Operation Lab

	Semester	Subjects Code	Subjects
Bio Technology			
	3 rd	CH(BT) 381	Basic Environmental Engineering & Elementary Biology Lab
		CH(BT) 382	Chemistry -2 Lab for BT
		BT 391	Biochemistry Lab
		BT 392	Microbiology Lab
	4 th	HU481	Technical Report Writing & Language Lab Practice
		M(CS) 491	Numerical Methods
		CH 481	Transfer Operation Lab
		BT 491	Molecular Biology Lab
		BT 492	Fermentation Technology Lab
	5 th	BT 591	Genetics Lab
		BT 592	Bio informatics Lab
		CH 584	Transfer Operation Lab-II
		CS 584	Data Structure & Algorithm Lab
	6 th	BT 691	Recombinant DNA Technology Lab
		BT692	Immunology Lab
		BT 693	Plant Biotechnology Lab
		CS 684	DBMS and Computer Networking Lab
	7 th	BT 791	Bioreactor Design & Analysis Lab
		BT 792	Food Biotechnology Lab
		CHE 783	Process Instrumentation & Control Lab
	8 th	BT 891	Design Lab / Industrial Problem / Industrial related problem

	CT392	Physical Testing of Ceramic Raw materials
4 th	Basic Sc.	Numerical Methods
	Engg. Sc	Fuel Testing Lab
	Prof. Core I	Geology Lab
	Prof. Core II	Instrumental Analysis Lab
	HU	Communication skill & Report writing
5 th	CT 591	Refractories Lab
	CT 592	Glass Lab
	CT 593	White wares Lab
	CT594A (IT 594 D)	Operation Research Lab
	CT 594B(CS691)	DBMS Lab
	CT 594C / (CS 504 D)	Object Oriented Programming Lab
6 th	CT 691	Cement & Concrete Lab
	CT 692	Material Characterisation Lab
	CT 693	Metal & Ceramic Coating Lab
7 th	CT 791	Plant Design – I
	CT 793	Monolithic Lab
	CT 795	Quality Management Lab
8 th	CT 891	Plant Design – II

Chemical Engineering

3 rd	CH (CHE) 392	Chemistry Lab -2
	ES 392	Energy Laboratory
	CHE 391	Fluid Mechanics Lab
	CHE 392	Instrumental Method of Analysis Lab
4 th	HU 481	Technical Report Writing & Language Lab Practice
	M(CS) 491	Numerical Methods
	CHE491	Data Structure & DBMS Lab
	CHE492	Heat Transfer Lab
	CHE493	Mechanical Operation Lab

Civil Engineering

	3 rd	PH 391	Physics - 2
		CE 391	Solid Mechanics
		CE 392	Surveying Practice I
		CE 393	Building Design & Drawing
	4 th	HU 481	Technical Report Writing & Language Lab Practice
		M(CS) 491	Numerical Methods
		CE 491	Surveying Practice II
		CE 492	Fluid Mechanics
	5 th	CE 591	Solid Mechanics Lab II
		CE 592	Concrete Lab
		CE 593	Quality Surveying , Specification and Valuation
		CE 594	Engineering Geology Lab
	6 th	CE 691	Highway & Transportation Lab
		CE 692	Detailing of RC & Steel Structures
		CE 693	CAD Lab
	7 th	CE 791	Environmental Engg. Lab
		CE 792	Civil Engg. Practice Sessional
		CE 793	Free Electric Lab
	8 th	CE 891	Structural Engg. Design Practice
Leather Technology			
	3 rd	CH(LT) 391	Analytical Chemistry of Waste Water Lab
		LT 391	Chemical Engg. Lab

5 th	CHE 591	Heat Transfer Lab
	CHE 592	Process Equipment Design & Drawing I
	CHE 593	Chemical Reaction Engg. Lab
6 th	CHE 691	Numerical Computations Lab
	CHE 692	Process Equipment Design & Drawing II
	CHE 693	Mass Transfer Lab
	CHE 693B	Engg. Drawing Lab
7 th	CHE 791	Project work / Plant Design
	CHE 792	Process Instrumentation and Control Lab
	CHE 793	Process Equipment Design & Drawing III
8 th	CHE 891	Plant Design
	HU 891	Design Lab
Marine Engineering		
3 rd	PH 391	Physics - 2
	MML 306	Mechanical Lab - I
	MWP 307	Workshop Practical
	MMD 308	Machine Drawing
4 th	HU 481	Communication Skill & Report Writing Lab
	MSML 408	Practical Seamanship and Elementary Navigation Lab
	MWP 409	Workshop Practical
	MED 410	Marine Engg. Drawing
	MMT 411	Materials Testing Lab
5 th	MEML 507	Electrical Machine Lab

	MML 508	Mechanical Lab - II
	MWP 509	Marine Workshop Practical
	MEDR 510	Marine Engg. Design & Drawing - I
6 th	MMBL 607	Boiler Chemical Lab & Fuel Oil & L. Oil Testing Lab
	MML 608	Mechanical Lab III
	MWP 609	Marine Workshop Practical
7 th	MPPL 707	Power Plant Lab

		LT 392	Tannery Practice I
		LT 393	Applied Information Technology Lab
	4 th	HU 481	Communication Skill & Report Writing
		M(CS) 491	Numerical Methods & C Programming
		LT 491	Tannery Practice II
		LT 492	Analytical Chemistry of Leather Auxiliaries Lab
	5 th	LT 591	Tannery Practice III
		LT 592	Foot wear Design Lab
		LT 593	Data Structure & Analysis of Algorithm Lab
	6 th	LT 691	Physical Testing Lab
		LT 692	Mechanics of Leather Machines
		LT 693	Computer Aided Design for Leather Products
		LT 694	Database Management Lab
	7 th	LT 791	Tannery Practice IV
		LT 792	Leather Goods Design Lab
		LT 793	Computer Network Lab

Production Engineering

	3 rd	HU 381	Technical Report Writing & Language Lab Practice
		PH 391	Physics Lab – 2
		ME 392	Machine Drawing – I
		ME 393	Workshop Practical – II
	4 th	M(CS) 491	Numerical Methods Lab
		ME 491	Fluid Mechanics & Hydraulics Lab
		ME 492	Manufacturing Technology Lab
		ME 493	Material Testing Lab
		ME 494	Machine Drawing II
	5 th	ME 591A	Ergonomics and Work Design Lab
		ME 591B	Computer Graphics Lab
		ME 592	Applied Thermodynamics & Heat Transfer Lab
		ME 593	Design Practice
		ME 594	Metrology & Measurement Lab

	MEML 708	Electrical Measurement Lab
	MFCL 709	Fire Control Lab
	MMSD 791	Marine Machinery System Design & Drawing
8 th	MCTR 806	Control & Simulator Lab
Mechanical Engineering		
3 rd	HU 381	Technical Report Writing & Language Lab Practice
	PH 391	Physics Lab - 2
	ME 391	Machine Drawing I
	ME 392	Workshop Practical II
	ME 393	Applied Mechanics Lab
4 th	M(CS) 491	Numerical Methods Lab
	ME 491	Fluid Mechanics & Hydraulics Lab
	ME 492	Manufacturing Technology Lab
	ME 493	Material Testing Lab
	ME 494	Machine Drawing - II
5 th	ME 592	Applied Thermodynamics & Heat Transfer Lab
	ME 593	Design Practice - I
	ME 594	Metrology & Measurement Lab
	ME 595	Professional Elective - Lab – I
6 th	ME 691	Machining & Machine Tools Lab
	ME 692	IC Engine Lab
	ME693	Design Practice - II
	ME 694	Dynamics of Machines Laboratory
	ME 695	Professional Elective - II Lab
7 th	ME 791	Advanced Manufacturing Lab
8 th	ME 881	Design of Mechanical System

		PE 591 A/B	Professional Elective Lab – I (Ergonomics and Work Design Lab / Computer Graphics Lab)
	6 th	PE 691	Machining & Machine Tools Lab
		ME 692	IC Engine Lab
		ME 693	Design Practice - II
	7 th	PE 791	CAD- CAM Laboratory
	8 th	PE 891	Industrial Engineering Lab

Textile Technology

	3 rd	PH 391	Physics - 2 lab
		TT391	Instrumentation & Control Lab
		TT392	Textile Fibre Lab
		TT393	Yarn Formation Lab – I
	4 th	HU 481	Technical Report Writing & Language Lab Practice
		M(CS) 491	Numerical Methods Lab
		TT 491	Theory of Machines Lab
		TT 492	Fabric Formation Lab I
		TT 493	Textile Chemical Processing Lab – I
	5 th	TT 591	Yarn Formation Lab II
		TT 592	Fabric Formation Lab II
		TT 593	Textile Chemical Processing - II Lab
	6 th	TT 691	Yarn & Fabric Formation Lab III
		TT 692	Textile Testing Lab
		TT 693	Textile Elective - I Lab (Theory of Textile Structure Lab/Theory of Elasticity of Textile Lab)
		TT 694	Free Elective - II Lab (a – Colour Science Lab b. Java Prog. Lab c. Microprocessor Lab)
	7 th	TT791	Textile Chemical Processing - II Lab (a. Wool Technology/ b. Apparel Technology Lab/ c. Advanced Chemical Processing Lab/ d. Application of CAD/CAM)

Auto Mobile Engineering		
3 rd	HU 381	Technical Report Writing & Language Lab Practice
	PH 391	Physics Lab - 2
	ME 391	Machine Drawing I
	ME 392	Workshop Practical – II
	ME 393	Applied Mechanics Lab
4 th	M(CS) 491	Numerical Methods Lab
	ME491	Fluid Mechanics & Hydraulics Lab
	ME492	Manufacturing Technology Lab
	ME493	Material Testing Lab
	ME494	Machine Drawing – II
5 th	AUE 592	Engine Component Lab
	AUE593	Design Practice
	AUE 594	Professional Elective Lab I
6 th	AUE 691	Metrology & Measurement Lab
	AUE 692	Applied Thermodynamics & Heat Transfer Lab
	AUE 693	CAD Application in Automotive Engg.
	AUE 695	Professional Elective II Lab
7 th	AUE 791	ETPM Lab
8 th	AUE 891	Automotive Elec. & Electronics Lab
	AUE 892	Auto Scanning Lab
Food Technology		
3 rd	CH (FT) 392	Chemistry - 2 LAB
	CH 391	Environmental Engineering Lab
	FT 391	Chemistry of Food Lab – I
	FT 392	Food Microbiology Lab
4 th	FT 491	Biochemistry Lab

			in Textile)
		TT792	Textile Elective - III Lab
		TT793	Free Elective - III Lab
	8 th	TT891	Product Design Lab

Electronics & Communication Engineering

	3 rd	M(CS) 391	Numerical Lab
		EC 391	Circuit Theory & Network Lab
		EC 392	Solid State Devices
		EC 393	Signal System Lab
		EC 394	Analog Electronic Circuits Lab
	4 th	HU 481	Technical Report Writing & Language Lab Practice
		PH 491	Physics Lab - 2
		EC491	EM Theory & TX Lines Lab
		EC492	Digital Electronics & Integrated Circuits Lab
	5 th	EC 591	Analog Communication
		EC 592	Microprocessor & Microcontroller Lab
		EC 593	Control System LAB
		EC 594 A (Free Elec.)	Computer Architecture
		EC 594 B	Data Structure & C
	6 th	EC 691	Digital Communication
		EC 692	Digital Signal Processing Lab
		EC 695 A/B/C/	Object Oriented Prog. (IT)/Prog. Lang.(CSE)/Electronic Measurement & Instru.
	7 th	EC 792	VLSI Design Lab
		EC793A/B/C/D	RF & Microwave Engg. Lab/Optical Commn & N/W Lab./Comp. N/W Lab/FPGA & R.C Lab.
		EC 795 (Free Elec.)	A.I Lab (CSE)/ Robotics (CSE)/DBMS Lab (CSE)/Power Electronics Lab (EE)

	FT 492	Chemistry of Food Lab – II
	CHE 484	Unit Operation Lab – I
	M(CS) 491	Numerical Methods Lab
	HU 481	Technical Report Writing & Language Lab Practice
5 th	FT 591	Food Processing Lab I
	FT 592	Food Analysis & Quality Control Lab -I
	CHE 584	Unit Operation Lab – II
6 th	FT 691	Food Processing Lab – II
	FT692	Microbial Technology Lab
	CS 685	Data Structure & Algorithm Lab
7 th	FT 791	Food Engg. Lab
	ET 791	Instrumentation & Control Lab
8 th	FT 892	Product Development & Quality Assurance Lab
Applied Electronics & Instrumentation Engineering		
3 rd	M(CS) 391	Numerical Methods Lab
	EC(EI) 391	Digital Electronics Circuits Lab
	EC (EI) 392	Analog Electronic Circuits Lab
	EE (EI) 391	Circuits & Networks Lab
4 th	HU 481	Technical Report Writing & Language Lab Practice
	PH 491 (EE)	Physics - II Lab
	EI 491	Electrical Measurement & Instrumentation Lab
	EI 492	Microprocessor Lab
5 th	EI 591	Industrial Instrumentation Lab
	EI 592	Sensors & Transducers Lab
	EI 593 (EE)	Control Engineering Lab
	EI 594 A/B/C	Data Structures & Algorithms Lab/ DBMS Lab/Software Engg.(IT)
6 th	EI 691	Process Control Lab

	8 th	EC 881	Design Lab/Industrial Problem related Practical Training
Computer Science & Engineering			
	3 rd	PH 391	Physics -2
		CS 391	Analog & Digital Electronics
		CS 392	Data Structure & Algorithm
		CS 393	Computer Organisation
	4 th	HU 481	Technical Report Writing & Language Lab Practice
		M(CS)491	Technical Report Writing & Language Lab Practice
		CS 491	Communication Engg. & Coding Theory
		CS 492	Software Tools
		CS 493	Computer Architecture
	5 th	CS 591	Design & Analysis of Algorithm
		CS 592	Microprocessor & Microcontrollers Lab
		C S593	Programming Practice using C++
		CS594A/B/C/D	Circuit Theory & Networks/Data Comm/ DSP(ECE) /Object Oriented Prog. (IT)
	6 th	CS 691	DBMS Lab
		CS 692	Networks Lab
		CS 693	Operating System Lab
	7 th	CS 791	Software Engg. Lab
		CS793A/B/C/D	Pattern Recognition/Soft Computing/AI/IP
		CS795A/B/C/D	Internet Tech(IT) Microelect. & VLSI Design(ECE)/ Control System(EE)/Modelling & Simulation(M)
	8 th	CS 891	Design Lab / Industrial Problem related Practical Training(Workshop needed)
Apparel Production Management			
	3 rd	PH 391	Physics- 2 Lab
		TT 391	Instrumentation & Control Lab
		APM 391	Textile & Garment Testing Lab
		APM 392	Apparel Production Lab – I

	EI 692	Electronic Instrumentation & Measurement Lab
	EI 693	Adv. Microprocessor & Microcontroller Lab
7 th	EI 791	Telemetry & Remote Control Lab
	EI 794 A/B/C	Comm. Engg/Microelect. & VLSI Tech Lab/FPGA & RFC Lab.
	EI 795 A/B/C	Comp. Networking Lab(CS)/Multimedia Lab(IT)/Internet Tech. Lab (IT)
8 th	EI 891 A/B/C (EE)	Power Elect. Lab/Industrial Drives Lab/Power Plant Instrumentation Lab.
	EI 892	Instrumentation & Control Design Lab
Hotel Management & Catering Technology		
1 st	HM-191	Food Production Practical I
	HM-192	Food & Beverage Service Practical – I
	HM-193	Front office Practical I
	HM-194	House Keeping Practical I
	HM-196	Application of Computers Practical I
2 nd	HM-291	Food Production Practical II
	HM-292	Food & Beverage Service Practical - II
	HM-293	Front office Practical II
	HM-294	House Keeping Practical II
3 rd	HM-391	Food Production Practical III
	HM-392	Food & Beverage Service Practical-III
	HM-393	Front office Practical III
	HM-394	House Keeping Practical III
4 th	HM-491	Food Production Practical IV
	HM-492	Food & Beverage Service Practical – IV

	4 th	HU 481	Technical Report Writing & Language Lab Practice
		M(CS) 491	Numerical Methods Lab
		TT 491	Theory of Machines Lab
		APM 491	Chemical Processing Lab – I
		APM 492	Apparel Production Lab – II
	5 th	APM 591	Apparel Quality Assurance Lab
		APM 592	Apparel Machineries & Maintenance Lab
		APM 593	Chemical Processing Lab – II
		APM 594 A/B	Free Elec.- I Lab (Statistical Quality Control; Total Quality Mgmt.
	6 th	APM 691	Lab on IT & CAD in Apparel
		APM 692	Lab in Production Planning & Control in Apparel Industry
		APM 693 A/B	Lab in Knitting & Knitware Technology / Testing of Home Textiles
		APM 694 A/B	ERP Lab/ DBMS Lab /E- Commerce Lab
	7 th	APM 791	Lab on Physical & Chemical Testing of Garments
		APM792 A/B	Free Elec. (Fashion Designing Lab / Garment Surface Ornamentation Lab)
		APM793 A/B/C/D	Assignments on International Business & Documentary on market survey & Analysis/ Introduction to soft computing Lab/Image Processing Lab
	8 th	APM 891 (Design lab)	Apparel Product line Designing & Portfolio Presentation
Instrumentation & Control Engineering			
	3 rd	M(CS) 391	Numerical Method Lab
		EC(EE) 391	Analog & Digital Electronic Circuit Lab
		EE-391	Electric Circuit Lab
		HU-381	Technical Report writing & Language Laboratory Practice
	4 th	PH(EE) 491	Physics II Lab

	HM-493	Front office Practical IV
	HM-494	House Keeping Practical IV
5 th		Food Production – V
		Food & Beverage Service – V
		Personality Development Practical – I
7 th	HM-791	Food Production Practical VI
	HM-792	Food & Beverage Service Practical – VI
	HM-795	Personality Development Practical II
Electrical & Electronics Engineering		
3 rd	EC(EE)-391	Analog & Digital Electronic Circuit
	M(CS-391	Numerical Methods
	EE-391	Electric Circuit Theory
	HU-391	Technical Report writing & Language Practice
4 th	PH(EE)-491	Physics II Lab
	EI(EE)-491	Transducers & Sensors Lab
	EE-491	Electric Machine lab – I
	EE-492	Electrical & Electronics Measurement Lab
5 th	EEE-591	Electric machine II
	EEE-593	Digital Signal Processing
	EEE-594	a. Data Structure & Algorithm, b. Computer Organisation, C. Microprocessor & Micro Controller.
6 th	EEE-691	Power System

		IC 491	Basic Control Theory lab
		EI(IC)-491	Sensors & transducers Lab
		EE-492	Electrical & Electronics Measurement Lab
	5 th	IC-591	Industrial Instrumentation I
		IC-592	Control System
		IC-593	Electric Machine
		IC-594	a. Data Structure & Algorithm, b. Computer Organisation, c. Microprocessor & Micro Controller.
	6 th	IC-691	Process Control
		IC-692	Advanced Control System
		IC-693	Industrial Instrumentation II
		IC-694	a. Software Engineering, b. Database Management System, c. Object oriented Programming, d. Operating System
	7 th	IC-781	Logic & Distributed Control System.
		IC-791	a. System prog. & Operating system. b. Embedded System. c. AI & Soft Computing., d. Operating System
		IC-792	Instrumentation & Control System Design
	8 th	IC-882	Instrumentation & Control System Design II
Information Technology			
	3 rd	PH-391	Physics II Lab
		CS-391	Analog & Digital Electronics
		CS-392	Data Structure & Algorithm
		CS-393	Computer Organisation
	4 th	HU-481	Technical Report writing & Language Laboratory Practice

	EEE-692	Control System
	EEE-693	Power Electronics
	EEE-694	a. Operating System, b. Object oriented Programming & Java., c. Embedded System.
7 th	EEE-791	VLSI Design
	EEE-792	Digital Communication & Network
	EEE-793	a. Operating System, b. Embedded System, C. AI & Soft Computing
	EEE-781	Design & Electrical/Electronic System
8 th	EEE-882	Electrical Systems Lab II
Electrical Engineering		
3 rd	EC(EE)-391	Analog & Digital Electronic Circuit
	M(CS)-391	Numerical Methods
	EE-391	Electric Circuit Theory
	HU-381	Technical Report writing & Language Laboratory Practice
4 th	PH(EE)-491	Physics II Lab
	ME(EE)-481	Thermal Power Engineering Lab
	EE-491	Electric Machine – I
	EE-492	Electrical & Electronics Measurement Lab
5 th	EE-591	Electric Machine II
	EE592	Power System – I

		M(CS)491	Numerical Method Lab
		CS-491	Communication Engineering & Coding Theory
		CS-492	Software tools
		IT-491	Object -Oriented Programming & UML(IT)
	5 th	IT-591	Algorithm Lab
		IT-592	Computer Architecture
		IT-593	Operating System Lab.
		IT 594	A. Circuit Theory & Network(EE). B. Data Communication (ECE). C. Digital Signal Processing(ECE), D. Operation research -M E. Microprocessor & Microcontroller(CSE). F. Programming Practices Using C++
	6 th	IT-691	DBMS Lab
		IT-692	Computer Networking Lab
		IT-693	Software Engineering
	7 th	IT-791	Internet Technology
		IT-792	Multimedia
		IT-793	A. E-Commerce, B. Soft Computing, C. Image Processing
	8 th	IT-891	Design Lab/Industrial problem related practical Training
Pharmacy (B.PHARM / Pharmaceutical Technology) [Session- 2017-18]			
First year only			
	1 st	PT-195	Human Anatomy and Physiology – Practical
		PT-191	Pharmaceutical Analysis-I –Prac.
		PT-196	Pharmaceutics –I-Prac.

	EE-593	Control System I
	EE-594	a. Data Structure & Algorithm, b. Computer Organisation, c. Microprocessor & Micro Controller.
6 th	EE-691	Control System II
	EE-692	Power System II
	EE-693	Power Electronics
	EE-694	a. Software Engineering b. Data base Management System c. Object oriented Programming, d. Embedded System
7 th	EE791	Electric Drive
	EE-792	a. Computer Network, b. AI & Soft computing , c. Digital Communication, d. Digital Image Processing
	EE-782	Electrical System Design I
8 th	EE-882	Electrical System Lab II
Architecture /Architecture(General)		
1 st	ARCH-181	Architecture Design-I
	ARCH-182	Creative Expressions
	ARCH-183	NSS/ECA/NCC/Sports
2 nd	ARCH-281	Architecture Design-II
	ARCH-282	Methods of Construction –I
	ARCH-283	Workshop Practice-I
	ARCH- 284	Educational Tour
3 rd	ARCH- 381	Architectural Design-II
	ARCH- 382	Methods of Construction –II
	ARCH- 383	Rendering Techniques
4 th	ARCH- 481	Architectural Design-IV

		PT-193	Pharmaceutical Inorganic Chemistry- Prac.
	2 nd	PT-292	Human Anatomy and Physiology-II- Prac.
		PT-293	Pharmaceutical Organic Chemistry-I
		PT-294	Biochemistry- Prac.
		PT-292	Pharmacognosy and Photochemistry –I
	3 rd	PT- 394	Pharmaceutical Chemistry(Organic chemistry)- Lab
		PT-391	Pharmaceutical Analysis
		PT-396	Pharmaceutics (Physical Pharmacy
		PT-397	Engineering Drawing lab
		CS- 393	Basic Electronics & Computer Application Lab
	4 th	PT-496	Pharmaceutics (Pharmaceutical Technology-I)
		PT-492	Pharmacognosy Lab
		PT-497	Pharmaceutical Engg. Lab
		PT-494	Pharmaceutical Chemistry (Bio- chemistry Lab)
	5 th	PT-596	Pharmaceutics (Pharm. Tech. II) Lab
		PT- 597	Pharmaceutical Engg. Lab
		PT-599	Pharm. Microbiology Lab
		PT-593	Pharm. Chemistry (Medicinal Chem.)Lab
	6 th	PT-693	Pharm. Chemistry (Medicinal Chem.)Lab
		PT-696	Pharmaceutics (Pharm. Tech. II) Lab
		PT-697	Pharmaceutics (Bio- Pharmaceutics & Pharmacokinets) Lab
		PT-698	Pharmacology Lab

	ARCH- 482	Methods of Construction –III
	ARCH- 483	Computer Graphics-I
5 th	ARCH- 581	Architectural Design-V
	ARCH- 582	Methods of Construction –IV
	ARCH- 583	Computer Graphics-II
	ARCH- 584	Material Testing Workshop
6 th	ARCH- 681	Architectural Design-VI
	ARCH- 682	Working Drawings
	ARCH- 683	Survey Field Work
7 th	ARCH- 781	Architectural Design-VII
	ARCH- 782	Interior Design
8 th	ARCH- 881	Architectural Design-VIII

		PT-691 A/B	Elective-I
	7 th	PT-796	Pharmaceutics (Pharm. Tech.) Lab
		PT-793	Pharm. Chemistry (Medicinal Chem.) Lab
	8 th	PT-891	Pharmaceutical Analysis
Civil and Environmental Engineering			
	3 rd	CH-391	Environmental Engg. Lab
		CH-392	Chemistry-2 Lab
		CE-392	Surveying Practice -I
		CE-393	Building Design & Drawing
	4 th	HU-481	Technical Writing / Language Lab
		M(CS) 491	Numerical Methods
		CE-492	Surveying Practice –II
		CE-493	Soil Mechanics Lab-I
		CHe-484	Unit Operation Lab-I
	5 th	CE-591	Soil Mechanics Lab-II
		CE-592	Concrete Lab
		CE- 593	Quantity Surveying , Specification and Valuation
		CE594	Engineering Geology Lab
	6 th	CVE-691	Environmental Chemistry Lab
		FT-692	Microbial Technology Lab
		CE-693	CAD Laboratory
	7 th	CE-791	Environmental Engg. Lab
		CVE-791	Environmental Engg. Practice Sessional
		CVE-792	Free Elec. Laboratory
		792 A.	Material Testing Lab (ME)
		792 B.	Electrical and Electronic Measurement Lab.

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		792C.	Climate & Ocean currents
	8 th	CVE-891	Environmental Engg. Design Practice.

SEMESTER WISE LABORATORY LIST (AICTE PG COURSES)

Computer Science Engineering		
1 st	PGCSE191	Operating System Laboratory(Compulsory)
	PGCSE192	A(Advanced Programming Lab)
2 nd	PGCSE291	Part I - Computer Networking & DBMS Laboratory (Compulsory)
Mechatronics (NITTTR ONLY)		
1 st	ME-191	Sensors & Signal Conditioning Lab
	ME-192	Mechatronic System Lab
2 nd	ME-292	Mechatronics Lab
Manufacturing Technology		
1 st	MTI-191	Manufacturing Technology Lab
	MTI-192	Machine Tools & Control Lab
2 nd	MTI-291	Flexible Manufacturing System Lab & Robotics Lab

Chemical Engineering		
1 st	Che-06	Process Control Lab
	Che-07	Transf.op /Petr...Eng. /Polymer Lab
2 nd	Che-14	Instrumental Methods of Analysis Lab
	Che-15	Env. Eng.& Pollution Con. Lab /Advanced Numerical Lab
Control & Instrumentation		
1 st	CIM-191	Laboratory-I (Control System Laboratory) I
	CIM-192	Laboratory-II(Instrumentation Laboratory) I
2 nd	CIM-291	Laboratory-III(Control System Laboratory) II
	CIM-292	Laboratory-IV(Instrumentation Laboratory) II
Electrical Devices & Power System		
1 st	EDPM-191	Laboratory-I
	EDPM-192	Laboratory-II

Power Electronics & Drives		
1 st	PEM-191	Electrical Engineering Lab-I
	PEM-192	Electrical Engineering Lab-II
2 nd	PEM-291	Electrical Engineering Lab-III
	PEM-292	Electrical Engineering Lab-IV
Power System		
1 st	PSM-191	Lab-I (Power System Hardware)
	PSM-192	Lab-II Introduction to Modern Power System Software (ETAP, Power World Simulation, Mi-Power)
2 nd	PSM-291	Lab-III
	PSM-292	Lab-IV
Bio-Technology		
1 st	MBT-191	Genetic Engineering Lab
	MBT-192	Advanced Plant Bio-Technology Lab/ Enzyme Technology Lab
2 nd	MBT-291	Bio-Informatics Lab
	MBT-292	Downstream Processing Lab, Immunology Lab Animal Cell Culture Lab
ECE (Microelectronics & VLSI Design)		
1 st	MVLSI-191	CAD Tools & VLSI Design
	MVLSI-192A	Microelectronic Technology
	MVLSI192B	Embedded System
2 nd	MVLSI-291A	Microelectronic Technology
	MVLSI-291B	Embedded System
ECE Communication		
1 st	MCE-191	Lab-I (Advanced Communication Lab)
	MVE-193	Lab-II (Design & Simulation Lab)

2 nd	EDPM-291	Laboratory-III
	EDPM-292	Laboratory-IV
Applied Electronics & Instrumentation		
1 st	EIEM-191	Lab-1 (Laboratory –I)
	EIEM-192	Lab-II
2 nd	EIEM-291	Lab-III
Mechanical Engineering		
1 st	MMT-191	Machining Technology Lab
	MMT-192	CAD/CAM Lab
2 nd	MMT-291	Robotics & Mechatronics Lab
Master of Computer Application		
1 st	MCA-191	Micro Programming Architecture Lab
	MCA-193	Programming Lab(C)
	HU-191	Business Presentation & Language Lab
2 nd	MCA-293	Data Structure Lab
	MCA-294	Database Lab
	MCA-295	Object -Oriented Programming Lab(C++)
3 rd	MCA-392	Unix Lab
	MM-391	Statistics & Numerical Analysis Lab
	MBA-392	Accounting system Lab
4 th	MCA-491	Software Project Management Lab
	MCA-492	Graphics & Multimedia Lab
	MCA-493	Advanced Database Lab
5 th	MCA- E 592/A/B	A. System Administration & Linux Lab B. Windows Programming Lab

2 nd	MCE-291	Lab-III (Communication System Lab.)
Geotechnical Engineering		
1 st	GTE-191	Geotechnical Lab-I
	GTE-192	Computer Application in Engineering
2 nd	GTE-291	Geotechnical Investigation Practice
	GTE-292	Geotechnical Lab-II
Structural Engineering		
1 st	SE-191	Structural Laboratory I
	SE -192	CAD LAB
2 nd	SE- 292	Structural Laboratory II
Automotive Technology		
1 st	MAE- 191	LAB I : Auto Electronics
	MAE -192	LAB – II : Auto Component Design
2 nd	MAE - 291	LAB - III : CAD/ CAM Lab

M.PHARM LABORATORY (From Academic Session 2017-18) 1st year only		
Pharmaceutics		
	MPT-1965	Pharmaceutical Practical I
	MPT-2065	Pharmaceutical Practical II
Pharmacology		
	MPT-1985	Pharmacology Practical –I
	MPT-2084	Experimental Pharmacology- Prac.-II
	MPT-2985	Pharmacology Practical –II
Pharmaceutical Chemistry		
	MPT-1935	Pharmaceutical Chemistry Practical
	MPT- 2935	Pharmaceutical Chemistry Practical
Pharmaceutical Chemistry (OLD)		
1 st	MPT-193(1)	Pharmaceutical Chemistry Lab
	Mpt-191	Pharmaceutical Analysis Lab
2 nd	MPT-293	Pharmaceutical Chemistry Lab
Pharmaceutics (OLD)		
1 st	MPT-196	Pharmaceutical Technology Lab
	MPT-191	Pharmaceutical Analysis Lab
2 nd	MPT-296	Bio- Pharmaceutics Lab
Pharmacology (OLD)		
1 st	MPT-198	Pharmacology Lab
	MPT-191	Pharmaceutical Analysis Lab
2 nd	MPT-293	Pharmacology Lab

B.VOC in Electronic Manufacturing Services (UGC) (3 years Course)

SEMESTER	PAPER CODE	SUBJECT
1 st	UGEN - 191	COMPUTER FUNDAMENTALS & IT LAB
	UEMSV - 192	FUNDAMENTAL OF ELECTRICAL LAB
	UEMSV - 193	PRINCIPLE OF ELECTRONICS LAB
	UEMSV - 194	IDENTIFICATION OF COMPONENTS, TOOLS, EQUIPMENT, SOLDERING & DE - SOLDERING TECHNIQUES (PRACTICAL)
2 nd	UEMSV - 291	ELCTRONICS DEVICES & CIRCUITS LAB
	UEMSV - 292	DIGITAL ELCTRONICS LAB
	UEMSV - 293	ELECTRONIC MEASUREMENT & INSTRUMENTATION LAB
3 rd	UEMSV - 391	MICROPROCESSOR LAB
	UEMSV - 392	AUDIO& VIDEO ENGINEERING LAB
	UEMSV - 393	FUNDAMENTAL OF TROUBLESHOOTING ELECTRONIC EQUIPMENT LAB
4 th	UEMSV - 491	PC SOFTWARE LAB
	UEMSV - 492	MOBILE & SMART PHONE LAB
	UEMSV - 493	TROUBLESHOOTING & MAINTENANCE OF ELECTRONIC EQUIPMENT LAB – I
5 th	UEMSV - 591	COMMUNICATION ENGINEERING LAB
	UEMSV - 592	TROUBLESHOOTING & MAINTENANCE OF ELECTRONIC EQUIPMENT LAB – II

B.VOC in BFSI (AICTE) (3 years Course)

SEMESTER	PAPER CODE	SUBJECT
1 st	B5.VP.01	Vocational Practical –I
	B5.VP.02	Vocational Practical –II
2 nd	B5.VP.03	Vocational Practical –III
	B5.VP.04	Vocational Practical –IV
3 rd	B6.VP.01	Vocational Practical - V
	B6.VP.02	Vocational Practical - VI
4 th	B6.VP.03	Vocational Practical - VII
	B6.VP.04	Vocational Practical - VIII
5 th	B7.VP.01	Vocational Practical – IX
	B7.VP.02	Vocational Practical – X

B.VOC in Medical Imaging Technology (AICTE) (3 years Course)

SEMESTER	PAPER CODE	SUBJECT
1 st	M5.VP.01	Identification of Components, Tools, Equipment and its working –Lab
	M5.VP.02	Basic diagnostics (Lab)
2 nd	M5.VP.03	Soldering & De-Soldering of Components-Lab
	M5.VP.04	Basic Imaging Practical Lab
3 rd	M6.VP.01	Electronics Devices Circuits Lab
	M6.VP.02	Fault analysis & Repairs - Lab
4 th	M6.VP.03	Electronics Devices Circuit –II Lab
	M6.VP.04	Manufacturing Practices
5 th	M7.VP.01	MRI, Image Processing and Recording
	M7.VP.02	Advanced Imaging
6 th	M7.VP.03	Admin, Medico Legal and Interventional Procedures

Apparel & Production Management (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	ES TT 391	Theory of Machines Lab
	PC APM 391	Textile Fibres and Yarns Lab
	PC APM392	Apparel Production- Lab I : Basic Pattern Making
	PC APM 393	Elements of Fashion and Costume Design Lab
4 th	ES TT 491	Numerical Methods Lab
	ES TT 492	Digital Electronics & Microprocessor Lab
	PC APM 491	Textile Fabric Formation Lab
	PC APM 492	Chemical Processing of Textile Lab I
	PC APM 493	Apparel Production Lab- II: (Grading, Marker-Planning, Cut-Planning, Spreading)
	HU 481	Technical Report Writing and Language Lab
5 th	PC APM 591	Chemical Processing of Textile Lab II
	PC APM 592	Apparel Production Lab III : Stitching & Finishing
	PC APM 593	Testing of Fabric and Design Analysis Lab
	PE APM 591 A	Knitting & Knitwear Technology lab
	PE APM 591 B	Manufacturing of Apparel Allied Accessory Lab

Applied Electronics & Instrumentation Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	PC-EI391	Circuits and Network Lab
	PC-EI392	Sensors and Transducers Lab
	PC-EI393	Analog Circuits Design Lab
	PC-EI394	Digital Circuits Design Lab
4 th	PC-EI491	Electrical & Electronic Measurement Lab
	PC-EI492	Microprocessor and Microcontroller Lab

	ES-CS491	Data Structure and Algorithm Lab
	HM-HU481	Advanced Language Lab
5 th	PC-EI591	Control System Lab
	OE-EI591	Object Oriented Programming language Lab
	OE-EI592	Data Base Management System Lab
	PC-EI592	Industrial Instrumentation Lab
6 th	PC - EI 691	Process Control Lab
	PC - EI 692	Instrumentation System Design Lab
	OE-EI691	Internet of Things Lab (IoT)
	OE-EI692	Artificial Intelligence Lab(AI)

Architecture (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	ARCH 101	Language lab. /Technical English
	ARCH 183	Model Making
	ARCH 184	NSS/ ECA / NCC/ SPORTS
2 nd	ARCH 283	Workshop Practice
3 rd	ARCH 383	Computer Education
	ARCH 384	Material Testing Work Shop
4 th	ARCH 483	Computer Graphics – I
5 th	ARCH 583	Computer Graphics II
6 th	ARCH 683	Estimation & Valuation
7 th	ARCH 783	Architectural Illumination
8 th	ARCH 883	Office Management

Automobile Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	PC-AUE391	Machine Drawing
4 th	PC-AUE491	Manufacturing and Testing Lab
	MC-481	Environmental Science
5 th	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 th	PC – AUE 691	Automobile Engineering Lab – III (Automotive Design Lab)
	PC – AUE 692	Automobile Engineering Lab IV (Vehicle Maintenance Lab)
7 th	PC – AUE 791	Automobile Engineering Lab V (Automotive Electrical & Electronics System Lab)

Biomedical Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	ES-EC391	Analog Electronic Circuits Laboratory
	PC-BME391	Signal Analysis Laboratory

	PC-BME392	Physiology & Biochemistry Laboratory
	HM-HU381	Interpersonal Skill & Report Writing [Sessional]
4 th	ES-EC491	Digital Electronic Circuits Laboratory
	PC-BME491	Biosensors & Transducers Laboratory
	PC-BME492	Biomedical Instrumentation Laboratory
	PE-EE491	Circuits And Network Laboratory
	PE-BME492	Electrical and Electronic Measurements Laboratory
5 th	PC-BME591	Medical Equipments and Simulation Laboratory
	PC-BME592	Medical Instruments & System Laboratory
	OE-EI591	Microprocessor& Microcontroller Laboratory
	OE-EI592	VLSI & Embedded System Laboratory
	OE-CS591	Data Structure & Algorithm Laboratory
	OE-CS592	Data Base Management System Laboratory
6 th	PC-BME691	Biomedical Digital Signal Processing Laboratory
	PC-BME692	Biomaterials & Biomechanics Laboratory
	OE-CS691	Object Oriented Programming Laboratory
	OE-CS692	Computer Network Laboratory
	OE-CS693	Software Engineering Laboratory
7 th	PC-BME791	Medical Image Processing Laboratory

Biotechnology (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	PC-BT391	Structure of Biomolecules Lab
	HM-BT391	Technical Report Writing and Language Lab Practices
	PC-BT392	Biochemistry Lab
	BS-BT391	Microbiology Lab
4 th	OE-BT491	Numerical Methods and Biostatistics Lab
	OE-BT492	Data Structure and Algorithms Lab
	ES-BT491	Transfer Operation I Lab
	PC-BT491	Molecular Biology Lab
5 th	PC-BT591	Genetics Lab
	PC-BT592	Bioinformatics Lab
	ES-BT591	Transfer Operation II Lab
	OE-BT591	Data Base Management System Lab
6 th	PC-BT691	Recombinant DNA Technology Lab
	PC-BT692	Immunology Lab
	PC-BT693	Plant Biotechnology Lab
	PC-BT694	Fermentation Technology and Bio separation Lab
7 th	PE-BT791A	Food Biotechnology Lab
	PE-BT791B	Bioprocess and Instrumentation Control Lab

Chemical Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
4 th	CHE-PC491	Numerical Methods in Chemical Engineering Lab
5 th	CHE-PC591	Chemical Engineering Lab - I
6 th	CHE-PC691	Chemical Engineering Lab - II
7 th	CHE-PC791	Design & Simulation Lab
	CHE-PC792	Instrumentation & Control Lab

Civil & Environmental Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	CH (FT) 392	Chemistry-2 Lab
	CH 391	Environmental Engineering Lab
	CE392	Surveying Practice- I
	CE 393	Building Design and Drawing
4 th	HU481	Technical Report Writing & Language Lab Practice
	M (CS) 491	Numerical Methods Lab
	CE492	Surveying Practice II
	CE493	Soil Mechanics Lab – I
	CHE 484	Unit Operation Lab – I
5 th	CE591	Soil Mechanics Lab-II
	CE 592	CONCRETE LABORATORY
	CE 593	Quantity Surveying, Specification and Valuation
	CE 594	Engineering Geology Lab
6 th	CVE 691	Environmental Chemistry Lab
	FT 692	Microbial Technology Lab
7 th	CE 791	Environmental Engineering & Designing Lab
	CVE 792 A	Material Testing Lab
	CVE 792B	Electrical & Electronics Measurement Lab
	CVE792C	Climate & Ocean Currents Lab

Civil Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	CE(ES)391	Basic Electronics
	CE(ES)392	Computer-aided Civil Engineering Drawing
	CE(ES)393	Life Science
4 th	CE(ES)491	Fluid Mechanics Laboratory
	CE(ES)492	Solid Mechanics Laboratory
	CE(ES)493	Engineering Geology Laboratory
	CE(PC)493	Surveying & Geomatics Laboratory
	CE(PC)494	Concrete Technology Laboratory
5 th	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 Applications in Civil Engineering
6 th	CE(PC)693	Water Resource Engineering Laboratory
	CE(PC)694	Steel Structure Design Sessional
	CE(PC)695	Quantity Survey Estimation and Valuation Sessional

Computer Science& Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	ESC-391	Analog & Digital Electronics Lab
	PCC-CS391	Data Structure & Algorithm Lab
	PCC-CS392	Computer Organization Lab
	PCC-CS393	IT Workshop (Sci Lab/MATLAB/Python/R)
4 th	PCC-CS492	Computer Architecture Lab
	PCC-CS494	Design & Analysis Algorithm Lab
5 th	ESC591	Software Engineering Lab
	PCC-CS592	Operating System Lab
	PCC-CS593	Object Oriented Programming Lab
6 th	PCC-CS691	Database Management System Lab
	PCC-CS692	Computer Networks Lab

Electrical & Electronics Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	PC-EEE 391	Electric Circuit Theory Laboratory
	PC-EEE 392	Analog Electronics Laboratory
	PC-CS 391	Numerical Methods Laboratory
4 th	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 th	PC-EEE 591	Electric Machine-II Laboratory
	PC-EEE 592	Control System Laboratory
	PC-EEE 593	Power Electronics Laboratory
6 th	PC-EEE 691	Power system-II Laboratory
	PC-EEE692	Microprocessor & Microcontroller Laboratory
	PC-EEE 693	Electrical & Electronic Design Laboratory
7 th	PC-EEE 791	Analog and Digital Communication Laboratory
8 th	PC-EEE891	Digital Signal Processing Laboratory

Electrical Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	PC-EE 391	Electric Circuit Theory Laboratory
	PC-EE 392	Analog Electronics Laboratory
	PC-CS 391	Numerical Methods Laboratory

4 th	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 th	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 th	PC-EE 691	Power System-II Laboratory
	PC-EE692	Microprocessor & Microcontroller Laboratory
	PC-EE 693	Electrical & Electronic Design Laboratory
7 th	PC-EE 791	Electric Drive Laboratory

Electronics & Communications Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	EC391	Electronic Devices Lab
	EC392	Digital System Design Lab
	ES-CS391	Data Structure Lab(ES)
	MC381	Environmental Science
4 th	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 th	EC591	Electromagnetic Wave Lab
	EC592	Digital Communication Lab
	EC593	Digital Signal Processing Lab
6 th	EC692	Computer Network Lab
	EC691	Control System and Instrumentation Lab
	EC681	Mini Project/ Electronic Design Workshop

Food Technology (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	PC-FT 391	Chemistry of Food Lab
	PC-FT 392	Microbiology of Food Lab
4 th	ES-FT 491	Unit Operation Lab
	ES-FT 492	Biochemistry Lab
	BS-FT 491	Numerical Methods Lab
5 th	PC-FT 591	Food Engineering Lab
	PC-FT 592	Food Analysis & Quality Control Lab-I
6 th	PC-FT 691	Food Processing Lab
	PC-FT 692	Food Analysis & Quality Control lab-II

	OE-FT 691	Database Management System Lab (DBMS Lab)
7 th	PC-FT 791	Product Development & Quality Assurance Lab

Hotel Management & Catering Technology (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	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 nd	HM291	Food Production Practical - II
	HM292	Food & Beverage Service Practical -II
	HM293	Front Office Practical - II
	HM294	House Keeping Practical – II
3 rd	HM391	Food Production Practical- III
	HM392	Food & Beverage Service Practical -III
	HM393	Front Office Practical - III
	HM394	House Keeping Practical - III
4 th	HM491	Food Production Practical - IV
	HM492	Food & Beverage Service Practical - IV
	HM493	Front Office Practical - IV
	HM494	House Keeping Practical - IV
5 th	HM595	Personality Development Practical -I
7 th	HM791	Advance Practical FP/FB/FO/HK (choose one)
	HM795	Personality Development Practical –II

Information Technology (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	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 th	PCC-CS 492	Computer Architecture
	PCC-CS494	Design & Analysis of Algorithms
5 th	ESC-591	Software Engineering
	PCC-CS592	Operating Systems
	PCC-CS593	Object Oriented Programming
6 th	PCC-CS691	Database Management Systems
	PCC-CS692	Computer Networks

Instrumentation & Control Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	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 th	PC-IC491	Electrical & Electronic Measurement Lab
	PC-IC492	Sensor & Transducer
	PC-IC493	Microprocessor and Microcontroller Lab
	PC-IC494	Control System I Lab
5 th	PC-IC591	Industrial Instrumentation Lab
	PC-IC592	Control System II
	OEIC591/OE-IC592	Embedded System/DBMS Lab
6 th	PC-IC691	Process Control Lab
	PC-IC692	Instrumentation System Design Lab
	OEIC691/OE-IC692	IOT Lab/AI lab

Leather Technology (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	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 th	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 th	LT 591	Tannery Practice III
	LT 592	Leather Goods Design Lab
	LT 593	Studies on JAVA Lab
	LT 594	Analytical Chemistry of Wastewater related to Leather Processing
6 th	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 th	LT 791	Tannery Practice IV
	LT 792	Analytical Chemistry of Leather Auxiliaries Lab-II
	LT 793	E-Commerce & Application Lab
8 th	HU 891	Design Lab

Mechanical Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	PC-ME391	Practice of Manufacturing Processes
4 th	PC-ME491	Practice of Manufacturing Processes and Systems Laboratory
	PC-ME492	Machine Drawing- I
	MC 481	Environmental Science
5 th	PC-ME591	Mechanical Engineering Laboratory I (Thermal)
	PC-ME592	Machine Drawing-II
6 th	PC-ME691	Mechanical Engineering Laboratory II (Design)
7 th	PC-ME791	Mechanical Engineering Laboratory III (Manufacturing)

Pharmacy (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	PT195	Human Anatomy and Physiology – Practical
	PT191	Pharmaceutical Analysis I – Practical
	PT196	Pharmaceutics I – Practical
	PT193	Pharmaceutical Inorganic Chemistry – Practical
	HU182	Communication skills – Practical
	PTB185	Remedial Biology – Practical
2 nd	PT298	Human Anatomy and Physiology II –Practical
	PT296	Pharmaceutical Organic Chemistry I– Practical
	PT297	Biochemistry – Practical
	PTC 293	Computer Applications In Pharmacy Practical
3 rd	PT 394	Pharmaceutical Organic Chemistry II – Practical
	PT 396	Physical Pharmaceutics I – Practical
	PT 399	Pharmaceutical Microbiology Practical
	PT 397	Pharmaceutical Engineering Practical
4 th	PT493	Industrial Pharmacy I – Practical
	PT496	Physical Pharmaceutics II – Practical
	PT498	Pharmacology I – Practical
	PT492	Pharmacognosy and Phytochemistry I – Practical
5 th	PT593	Medicinal Chemistry I – Practical
	PT598	Pharmacology II – Practical
	PT 592	Pharmacognosy and Phytochemistry II – Practical
6 th	PT693	Medicinal chemistry III – Practical
	PT698	Pharmacology III – Practical
	PT692	Herbal Drug Technology – Practical
7 th	PT791	Instrumental Methods of Analysis – Practical

Textile Technology (NEW)

SEMESTER	PAPER CODE	SUBJECT
3 rd	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 th	ES TT 491	Numerical Method Lab
	ES TT 492	Digital Electronics & Microprocessor Lab
	PC TT 491	Fabric Manufacturing
	PC TT 492	Textile Chemical Lab I
	HU 481	Technical Report Writing and Language Lab
5 th	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 th	PC TT 691	Yarn Formation & Fabric Manufacturing Lab
	PC TT 692	Textile Chemical Processing Lab III
	PE TT 691A/B	Theory of Elasticity Lab /Theory Textile Structure Lab
7 th	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	Apparel Technology/Advance Chemical Processing
8 th	PC TT891	Product Design LAB

Data Science (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
3 rd	PCC- DS391	Data Structure & Algorithms Lab
	ESC391	Analog and Digital Electronics Lab
	PCC- DS391	Computer Organization and Architecture
	PCC- DS392	Data Science Lab using Python
4 th	PCC-DS 491	Database Management System Lab
	PCC- CS 494	Design & Analysis of Algorithms Lab
	PCC- DS 492	Data Mining Lab
5 th	ESC- 591	Software Engineering Lab
	PCC- CS592	Operating Systems Lab
	PCC- CS593	Object Oriented Programming Lab
6 th	PCC- CS(DS)691	Artificial Intelligence Lab
	PCC- CS692	Data Communication and Computer Networks Lab
	PCC- DS693	Big Data Technology and OLAP Lab

Computer Science and Engineering (Data Science) (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
3 rd	ESC-391	Digital Electronics Lab
	PCC-CS391	Data Structures and Algorithm Lab
	PCC- CSDS392	Statistics for Data Science Lab
4 th	PCC-CSDS491	Computer Organization and Architecture Lab
	PCC-CSDS492	Data Base Management System Lab
	PCC-CS493	Design and Analysis of Algorithm Lab

	PCC-CS494	IT Workshop (Using Python) Lab
5 th	PCC-CSDS591	Artificial Intelligence Lab
	PCC-CS592	Object Oriented Programming Lab
	PCC-CSDS593	Introduction to R Programming
	HM-HU591	Soft Skills Development Lab
6 th	PC-CSDS691	Operating System Lab
	PC-CS693	Computer Networks Lab

Artificial Intelligence and Machine Learning (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
3 rd	PCCCS391	Data Structure and Algorithms
	ESC391	Analog and Digital Electronics
	PCCCS392	Computer Organization
	PCCCS393	IT Workshop (Python I)
4 th	PCCAIML 491	Artificial Intelligence
	PCCCS494	Design and Analysis of Algorithm
	PCCAIML 492	Python II / R Programming Language
5 th	PCCCS592	Operating System
	PCCCS593	Object Oriented Programming & Java
	PCCAIML 592	Machine Learning Foundations
6 th	PCCAIML 691	Machine Learning Applications
	PCCAIML 693	Soft Computing
	PCCCS692	Computer Networks

Computer Science and Engineering (Artificial Intelligence and Machine Learning) (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
3 rd	PCCCS391	Data Structure and Algorithms
	ESC391	Analog and Digital Electronics
	PCCCS392	Computer Organization
	PCCCS393	IT Workshop (Python I)
4 th	PCCAIML 491	Artificial Intelligence
	PCCCS494	Design and Analysis of Algorithm
	PCCAIML 492	Python II
5 th	PCCCS592	Operating System
	PCCCS593	Object Oriented Programming & Java
	PCCAIML 592	Machine Learning Foundations
6 th	PCCAIML 691	Machine Learning Applications
	PCCCS691	Database Management System
	PCCCS692	Computer Networks

Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology) (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
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3 rd	PCCCS391	Data Structure and Algorithms
	ESC391	Analog and Digital Electronics
	PCCCS392	Computer Organization
	PCCCS393	IT Workshop (Python/Matlab/R)
4 th	PCCICB491	Data Communication and Networks
	PCCCS494	Design and Analysis of Algorithm
5 th	PCCCS592	IoT Application and Design
	PCCCS593	Operating System
	PCCICB592	Object Oriented Programming
6 th	PCCCS691	Database Management System lab
	PECCS691	Lab based on PECICB601

Artificial Intelligence and Data Science (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
3 rd	PCCCS391	Data Structure and Algorithms
	ESC391	Analog and Digital Electronics
	PCCCS392	Computer Organization
	PCCCS393	IT Workshop (Python/Matlab/R I)
4 th	PCCAIDS491	Artificial Intelligence
	PCCCS494	Design and Analysis of Algorithm
	PCCAIDS492	Python/Matlab/R II
5 th	PCCCS592	Operating System
	PCCCS593	Object Oriented Programming & Java
	PCCAIDS592	Data Science
6 th	PCCAIDS691	Big Data
	PCCCS691	Database Management System
	PCCCS692	Computer Networks

Hospitality and Tourism Administration (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
1 st	BHTA104	Business Communication
	BHTA105	Basic Knowledge of Computer

M.Tech in Microelectronics & VLSI Technology (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
1 st	PGMVD-191	Microelectronics Lab-I (Fabrication Techniques)
	PGMVD-192	VLSI Design Lab-I
2 nd	PGMVD-291	Micro Electronics Lab-II (Characterisation)
	PGMVD-292	VLSI Design Lab-II

M.Tech. in Electronics & Communication Engg. (for MCKV)

SEMESTER	PAPER CODE	SUBJECT
1 st	MCE 191	Advanced Communication Networks Lab

	MCE 192	Wireless and Mobile Communication Lab
2 nd	MCE 291	Antennas and Radiating Systems lab
	MCE 292	Advanced Digital Signal Processing Lab

M.Tech. in Information Technology (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	PGIT191	Real Time Operating System Laboratory [Compulsory]
	PGIT192	College Specific Lab: A. Communication System Lab (IEM) [Other Colleges to update their specific laboratories]
2 nd	PGIT291	Elective PART 1: Java & Web Tech Lab [BCRCE-Durgapur] PART 2: Dot Net Lab [BCRCE-Durgapur] Advanced Computer Network & Security Lab (IEM)

M. Tech Computer Science and Engineering (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	PGCSE191	Operating System Laboratory [Compulsory]
	PGCSE192	A) Advanced Programming Lab
2 nd	PGCSE291	Part-I – Computer Networking & DBMS Laboratory [Compulsory]

M.Tech in Mechanical Engineering Design (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	MED191	Design Practice Lab-I
	MED192	CAD/CAM Lab
2 nd	MED291	Design Practice Lab-II

M.Tech in Electrical Machines and Drives

SEMESTER	PAPER CODE	SUBJECT
1 st	EEMD191	Machine & Drives Lab
	EEMD192	Control and Power Electronics Lab
2 nd	EEMD291	Drives & Simulation Lab

M.Tech. in Computer Science and Engineering (IOT) (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
1 st	PGCS(IoT)192	Laboratory 1 (Advanced Data Structures)
	PGCS(IoT)193A/B/ C	Laboratory 2 (Based on Elective I)
	PGCS(IoT)194A/B/ C	Laboratory 3 (Based on Elective II)
2 nd	PGCS(IoT)291	Advanced Computer Architecture Lab
	PGCS(IoT)292	Wireless and Sensor Networks Lab
	PGCS(IoT)293A /B/C	Lab based on Elective III

M.Pharm in Pharmaceutical Chemistry (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	MPT1935	Pharmaceutical Chemistry Practical
2 nd	MPT 2935	Pharmaceutical Chemistry Practical

M.Pharm in Pharmacology (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	MPT 1985	Pharmacology Practical I
2 nd	MPT 2084	Experimental Pharmacology practical- II
	MPT 2985	Pharmacology Practical II

M.Pharm in Pharmaceutics (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	MPT 1965	Pharmaceutics Practical I
2 nd	MPT 2065	Pharmaceutics Practical II

M.Pharm in Quality Assurance (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	MQA105P	Pharmaceutical Quality Assurance Practical I
2 nd	MQA205P	Pharmaceutical Quality Assurance Practical II

M.Pharm in Regulatory Affairs (NEW)

SEMESTER	PAPER CODE	SUBJECT
1 st	MRA 105P	Regulatory Affairs Practical I
2 nd	MRA 205P	Regulatory Affairs Practical II

MCA (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
1 st	MCAN-190	Soft Skill and Interpersonal Communication
	MCAN-191	Python Programming Lab
	MCAN-192	Relational Database Management System Lab
2 nd	MCAN-291	Data Structure Lab using Python
	MCAN-292	Operating System Lab (Unix)
	MCAN-293	Object Oriented Programming Lab using JAVA
3 rd	MCAN-E394 (A/B/C/D/E/F)	Elective III Lab

MBA

SEMESTER	PAPER CODE	SUBJECT
1 st	MB 103	Business Communication
2 nd	MB 205	Management Information System

MASTER OF BUSINESS ADMINISTRATION (PART TIME)

SEMESTER	PAPER CODE	SUBJECT
1 st	MBPT 103	Business Communication
3 rd	MB 303	Management Information System

MBA in Big Data Analytics (NEW) 2020-2021

SEMESTER	PAPER CODE	SUBJECT
1 st	MB 103	Business Communication
2 nd	MB 205	Management Information System
3 rd	BDA 301	Data Visualization for Managers
	BDA 302	Big Data Technology
4 th	BDA 403	Advanced Data Handling and Data Mining

MBA in Digital Marketing (NEW) 2020-21

SEMESTER	PAPER CODE	SUBJECT
1 st	MB 103	Business Communication
2 nd	MB 205	Management Information System
3 rd	DM 302	Social Media Marketing
4 th	DM 401	Search Engine Optimization
	DM 403	Website Development