

NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

Program Name : Chemical Technology (Leather technology)	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 2
Application No : 11318	Date of Submission : 28-11-2025

PART A- Profile of the Institute

A1.Name of the Institute : Muzaffarpur Institute of Technology Muzaffarpur	
Year of Establishment : 1954	Location of the Institute: Muzaffarpur
A2. Institute Address :PRINCIPAL MUZAFFARPUR INSTITUTE OF TECHNOLOGY MUZAFFARPUR AT LAKSHMI CHOWCK P.O - MIT MUZAFFARPUR BIHAR -842003	
City:Muzaffarpur	State:Bihar
Pin Code:842003	Website:www.mitmuzaffarpur.org
Email:principalmit.nba@gmail.com	Phone No(with STD Code):0621-2262650
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : Aryabhata Knowledge University Patna	City: Patna
State : Bihar	Pin Code: 800001
A4. Type of the Institution : Government Institute	
A5. Ownership Status : State Government	

A6. Details of all Programs being Offered by the Institution:

- No. of UG programs: **10**
- No. of PG programs: **6**

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	PG	Advanced Electronics & Communication Engineering	2024	--	Electronics and Communication Engineering
2	Engineering & Technology	UG	Biomedical and Robotics Engineering	2022	--	Biomedical and robotics engineering
3	Engineering & Technology	UG	Chemical Engineering	2025	--	Chemical Engineering
4	Engineering & Technology	UG	Chemical Technology (Leather technology)	1986	--	Chemical Technology (Leather technology)
5	Engineering & Technology	UG	Civil Engineering	1954	--	Civil Engineering
6	Engineering & Technology	UG	Computer Science and Engineering	2024	--	Computer Science and Engineering
7	Engineering & Technology	PG	Electrical Energy Systems	2024	--	Electrical Engineering
8	Engineering & Technology	UG	Electrical Engineering	1960	--	Electrical Engineering
9	Engineering & Technology	UG	Electronics & Communication Engineering	2001	--	Electronics and Communication Engineering
10	Engineering & Technology	PG	Geotechnical Engineering	2022	--	Civil Engineering
11	Engineering & Technology	UG	Information Technology	2001	--	Information Technology
12	Engineering & Technology	PG	Machine Design	2017	--	Mechanical Engineering
13	Engineering & Technology	UG	Mechanical Engineering	1960	--	Mechanical Engineering
14	Engineering & Technology	PG	Thermal Engineering	2017	--	Mechanical Engineering

15	Engineering & Technology	PG	Transportation Engineering	2024	--	Civil Engineering
16	Pharmacy	UG	Pharmacy	1978	--	Pharmacy

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Mechanical Engineering	No	Mechanical Engineering	UG
Electrical Engineering	No	Electrical Engineering	UG
Chemical Technology (Leather technology)	No	Chemical Technology (Leather technology)	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information**B1. Provide the Required Information for the Program Applied For:**

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS
1	Chemical Technology (Leather technology)	UG	1986 / --	15	Yes	2024	30	2024	1-44643102175/2025

Sanctioned Intake for Last Five Years for the Chemical Technology (Leather technology)

Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	15
2022-23	15
2021-22	15
2020-21	15

List of the Allied Departments/Cluster and Programs:

B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	MITHILESH KUMAR JHA
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	30	30	15	15	15	15	15

N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	20	17	12	5	9	12	6
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	2	0	0	1	0	1
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	20	19	12	5	10	12	7

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	30	20	0	66.67
2024-25 (CAYm1)	30	17	0	56.67
2023-24 (CAYm2)	15	12	0	80.00

Average $[(ER1 + ER2 + ER3) / 3] = 67.78 \approx 11.00$

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*=(No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	16.00	15.00	16.00
B=No. of students who graduated from the program in the stipulated course duration	9.00	9.00	6.00

Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$: 51.25

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.50	6.74	7.17
Y=Total no. of successful students	16.00	8.00	3.00
Z=Total no. of students appeared in the examination	17.00	12.00	5.00
API $[X*(Y/Z)]$	7.06	4.49	4.30

Average API $[(AP1+AP2+AP3)/3]$: 5.28

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	6.73	7.63	6.54
Y=Total no. of successful students	8.00	3.00	9.00
Z=Total no. of students appeared in the examination	8.00	3.00	9.00
API $[X * (Y/Z)]$	6.73	7.63	6.54

Average API $[(AP1 + AP2 + AP3)/3]$: 6.97

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	8.54	7.70	7.92
Y=Total no. of successful students	3.00	9.00	9.00
Z=Total no. of students appeared in the examination	3.00	9.00	9.00
API [$X*(Y/Z)$]:	8.54	7.70	7.92

Average API [(AP1 + AP2 + AP3)/3] : 8.05

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	16.00	15.00	16.00
X=No. of students placed	1.00	2.00	3.00
Y=No. of students admitted to higher studies	0.00	1.00	1.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	6.25	20.00	25.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 17.08 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments**(Data to be filled in for the Department and Allied Departments)****C1. Faculty details of Department and Allied Departments**

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	C A (
1	SANJAY KUMAR CHOUDHARY	XXXXXXXX41N	M.Sc. (Engineering)	BRA, BIHAR UNIVERSITY	LEATHER TECHNOLOGY	04/02/2006	19.9	Assistant Professor	Assistant Professor		Regular	Y
2	ARATI KUMARI	XXXXXXXX30P	B.E.	BRA, BIHAR UNIVERSITY	LEATHER TECHNOLOGY	06/02/2006	19.9	Assistant Professor	Assistant Professor		Regular	Y
3	MANIKANT KUMAR	XXXXXXXX71H	Ph.D	NIT, PATNA	LEATHER TECHNOLOGY	27/04/2011	14.7	Assistant Professor	Assistant Professor		Regular	Y
4	MITHILESH KUMAR RAI	XXXXXXXX16H	Ph.D	IIT(BHU) VARANASI	LEATHER TECHNOLOGY	10/03/2017	8.8	Assistant Professor	Assistant Professor		Regular	Y
5	MITHILESH KUMAR JHA	XXXXXXXX41M	Ph.D	ISM, DHANBAD	CHEMICAL ENGINEERING	08/09/2023	2.2	Professor	Professor		Regular	Y

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)**C**= No. of Students in UG 3rd year (ST)**D**= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year**B**= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	30	15	15
UG1.C	15	15	16
UG1.D	15	16	15
UG1: Chemical Technology (Leather technology)	60	46	46
DS=Total no. of students in all UG and PG programs in the Department	60	46	46
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 60	S2= 46	S3= 46
DF=Total no. of faculty members in the Department	4	4	3
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 4	F2= 4	F3= 3
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 15.00	SFR2= 11.50	SFR3= 15.33
Average SFR for 3 years	SFR= 13.94		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 * [(10X + 4Y)/RF]$ where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	3	1	2.00	42.50
2024-25(CAYm1)	2	2	2.00	35.00
2023-24(CAYm2)	1	2	2.00	22.50

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:}$
- RF2= No. of Associate Professors required = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	0.00	1.00	1.00	0.00	2.00	3.00
2024-25	0.00	1.00	1.00	0.00	1.00	3.00
2023-24	0.00	0.00	1.00	0.00	1.00	3.00
Average	RF1=0.00	AF1=0.67	RF2=1.00	AF2=0.00	RF2=1.33	AF2=3.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Pratibha Kumari	guest assistant professor	Anna Malai university	Biology for engineers	36.00
2	Smt. Susmita pramanic	Assistant Professor	Central sanskrit university , New delhi	Sanskrit	42.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Prof. Mukesh kumar	Assistant Professor (Guest)	RCP Bhopal	Biology for engineers	40.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Prof. Mukesh kumar	assistant Professor (Guest)	RCP Bhopal	Biology for engineers	40.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	3	3	2
2	No. of peer reviewed conference papers published	2	0	0
3	No. of books/book chapters published	0	0	0

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: NIL**Note*:**

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years:**Note*:**

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years :

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Material testing lab	15	Water vapour permeability tester, water proofness tester, Din Abrasion Tester, Compression testing machine	3 hr/week	Santosh Kumar	Instructor	B.Tech
2	Footwear Lab	15	Calcom GTCO digitizer model, Jingwei digital cutting plotter, Software designer 3D via 64 bits	9 hr/week	Shankar Kumar	Instructor	B.Tech
3	Analytical chemistry lab	15	spectrometer	3hr/week	Shankar Kumar	Instructor	B.Tech
4	Tanney lab	15	Sample drum	15 hr/week	Santosh Kumar	Instructor	B.Tech

D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

Sr. No	Laboratory Name	Safety Measures
1	Tannery Lab	• Seek approval authorization from the lab In-Charge prior to entering the lab working area. • Take the proper training and read the associated documents/ manuals before you use any new equipment. • Wear the appropriate personal protective equipment when conducting work with hazardous materials. • All laboratory personnel should place emphasis on safety and chemical hygiene at all times. • Make sure that you know the location of Fire Extinguishers, First Aid Kit and Emergency Exits before you start experiments. • Never leave containers of chemicals open. • Do not use mouth suction for pipetting or starting a siphon. • Wash exposed areas of the skin prior to leave the laboratory. • No contact lenses should be worn around hazardous chemicals- even when wearing safety glasses. • Determine the potential hazards and appropriate safety precautions before beginning any work.
2	Footwear Lab	• Regularly clean the cutting surface by alcohol to keep a good absorption quality. • Don't put any tools on the table to avoid knocking against the tools head when the machine is running. • Don't press on the machine's beams or rails. • Don't pull up any cable when the machine is on power. • Need to maintain computer regularly with antivirus, unstable computer system will make the cutting machine can't work normally. • When the machine is running, don't place your body near to the cutting area of machine. It's dangerous. • In case any abnormal noises related to any blockages, grinding or banging are heard when the machine is running or in operation, immediately turn off the machine and cut-off the power from the mains. • Cover the cutting machine by dustproof cover after the machine finished its work.
3	Material testing lab	• Lab coats or aprons must be worn all the times in the laboratory. • Closed shoes with non-slip soles should be preferably worn in the lab. • Never switch on the instrument at the time when setting are done or somebody is touching any of its parts. • Do not avoid any unusual sound coming from the installment. • Do not touch any moving parts when the power is switched on. • Labels and equipment instruction must be read carefully • Dry hands completely before touching electrical switches plug or outlet
4	Analytical chemistry Lab	• Seek approval authorization from the lab in-charge prior to entering the lab working area. • Take the proper training and read the associated documents/manuals before you use any new equipment. • Never leave containers of chemicals open. • Do not use mouth suction for pipetting or starting a siphon. • Don't taste chemicals as many chemicals are poisonous. • Never pour water into concentrated acid. • Pour acid slowly into water, stirring constantly, mixing acid with water is often exothermic. • Don't return used chemicals back to the stock container. • Don't expose electric sparks, open flames and heating elements to organic solvent vapors • Don't tap flasks under vacuum.

D3. Project Laboratory/Research Laboratory

--

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF$
2023-24(CAYm2)	335	17	8	13	53
2024-25(CAYm1)	400	20	15	20	80
2025-26(CAY)	480	24	17	22	75

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	14668000	11000000	12947900.00	10983575	8700629	8614463	12500000	12177263
Library	1200000.00	0	1200000.00	1189871.00	800000	750000	500000	480000
Laboratory equipment	30200000.00	13106679.00	40832160.00	36685557	35917351.00	35917114.00	27200000.00	27032426.00
Teaching and non-teaching staff	140907000.00	101935902.00	155757000.00	129168161.00	131284000.00	110623758.00	123751003.00	102239680.00
Outreach Programs	0	0	0	0	0	0	0	0
R&D	6000000	5825000	3000000	2979500	0	0	0	0
Training, Placement and	75000	75000	67500	67500	71000	71000	88000	88000
SDGs	1875000	187500	800000	792098	1800000	1796988	0	0
Entrepreneurship	300000	300000	600000	600000	250000	250000	0	0
Others, specify	200000.00	200000.00	0	0	0	0	0	0
Total	195425000.00	132630081.00	215204560.00	182466262.00	178822980.00	158023323.00	164039003.00	142017369.00

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	0	0	1900000	1896893	0	0	0	0
Software	0	0	0	0	0	0	0	0

SDGs	0	0	0	0	0	0	0	0
Support for faculty development	0	0	1700000	1678711	75000	71362	125000	121760
R & D	0	0	0	0	0	0	0	0
Industrial Training, Industry expert,	0	0	0	0	0	0	0	0
Miscellaneous Expenses*	75000	70088	700000	662377	1100000	1021842	200000	195435
Total	75000	70088	4300000	4237981	1175000	1093204	325000	317195