

Atmiya University

Research Profile

I. Student Teacher Ratio

No. of Teachers: 117

No. of Students Enrolled: 2051

Student Teacher Ratio: 1:17

II. Class Rooms

SN	Faculty	No. of Classrooms
1	Engineering & Technology	43
2	Paramedical Sciences	3
3	Business & Commerce	21
4	Science	15
5	General Room	2
6	Tutorial Room	4
Total		88

III. Teaching labs

SN	Faculty	No. of Laboratories
1	Engineering & Technology	60
2	Paramedical Sciences	12
3	Science	36
4	Humanities	1
Total		109

Research labs (Major Equipments)

IV. RESEARCH FACILITIES

1) List of Laboratories of Science:

- Genetic Engineering Lab.
- Cell culture facility
- Plant tissue culture facility
- Bioinformatics lab.
- IOS lab.
- Computer labs and servers / cloud
- Central sophisticated instrument laboratories
- Department wise research laboratories
- Pharma Tech laboratory
- Unit operation and pilot plant lab.

2) Equipments:

S.N.	Equipment
1	Tissue Crusher
2	Capillary Gel Electro Phoresis
3	Refractometer Anton paar
4	Atomic absorption spectroscope - AAS
5	BOD Incubator
6	Fully automated biochemical analyzer
7	Polarimeter Anton paar
8	Flame photometers
9	Orbital Shaking Incubator
10	ELISA reader and washer
11	Microwave digester Anton paar
12	Metal finisher electrolyzer (Ni, Cu, Ag, Au, Rh)
13	Gel Documentation System
14	Cell counter
15	High performance liquid chromatography-HPLC with fraction collector
16	Microwave synthesizer CEM-1 discover

17	Q-Bit Fluorometer
18	Real time PCR
19	Gas chromatography with Mass Spectrometer-GCMS
20	Mini 25 litres Pilot plant (for synthesis and distillation)
21	Seque Gel-Biorad
22	Fully automated DNA isolation system
23	Microwave Plazma Assisted Atomic Emission Spectroscope-MPAES
24	Pharma Tech instruments
25	PCR System
26	Nano drop DNA quantifier
27	H cube mini flow catalytic hydrogenator
28	Size reduction instruments
29	CO2 Incubator
30	Temperature controlled UV Viz. Spectrophotometers
31	Redley parallel synthesizer
32	Heat & mass transfer instruments
33	Bio Safety Cabinets Class-II
34	Mili Q Water Purifiers
35	KaFi-Moisture analyzer
36	Fluid flow instruments
37	Inverted Advanced Microscopes
38	Temperature controlled Shaker cum incubator
39	FT-IR Spectroscope
40	UV Viz. Spectrophotometers
41	Cold Rooms (minus 20 degree)
42	Ultra Sonicator
43	Memmert Universal Oven
44	Ultra low temperature refrigerator (minus 80 degree)
45	Cary 60 UV Viz. Spectrophotometer
46	Electronic Balances
47	Lyophilizer
48	Vacuum desiccators

49	Fermentor
50	Electrophoretors

3) Research Instruments utilized for Engineering Programme

- CNC turning Centre, Vertical machining Center
- 150kV, 5-stage Complete Impulse Generator,
- Wind Energy Training System,
- Generator Protection Simulation Panels,
- 400kV Transmission Line Simulation Study Panel,
- Solar Thermal Training System,
- Motor Protection Study Unit
- National Instruments -LABVIEW,
- PSP-330:P UNIVERSAL PROCESS CONTROL TRAINER
- IBM X3200 Mini Tower Server
- IBM Power Server P50
- Sun Fire 280RServer
- Cisco ACS 1113 Server
- IBM X346 X Series Rack mount Server

4) Special Laboratories

- Project Workbench
- Center of Excellence in Embedded Systems & Robotics in association with IIT Bombay
- Center of Excellence in Solar Technology
- Tinkering Lab
- Welding
- Sand Test & NDT Mechanical Workshop
- Renewable Energy Resource
- High Voltage

V. Research Scholars (M. Tech, Ph.D., Post Doctoral Scholars)

S.N.	Program	Total
1	Masters Program	456
2	M.Phil	01
3	Ph.D	27
Total		484

VI. Publications in last 3 years (Year-wise list)

Summary Attached

Annexure O.1 (Journal Publication),

Annexure O.2 (Conference Presentation)

University is in existence from last one year only, however publications of faculty members of last three years are provided

VII. No. of Books/Book Chapters/Articles Published

Sr. No.	Type	Level	Number
1	Book	International	19
2		National	3
3		University	1
4	Book Chapters	International	3
5		National	4
6		Regional	1
7	Articles	International	1
Total			32

VIII. Patents filled

Sr. No.	Name	Dept.	Title	Application No.
1	Ketan Katariya, Prakash Gujarati, Ashish Kothari	EC	Infrastructure Electricity Automation System	201621004434
2	Jayesh Vatvani, Yagnesh Parmar, Urvisha Andani, Sweta Kakdiya, Ashish Kothari	EC	Automatic Solar Panel Cleaning	201621037459
3	Umang R. Butani, Harsh B. Solani, Vivek B. Tarbada, Tushar J. Mehta	EC	Aadhar Based Advance Locker System	201821005186
4	Anju J. Payyappilly, Bhakti M. Patel, Debasmita J. Dey, Yagnesh N. Makwana	EC	Fully Automated Solar Grasscutter	201821005523
5	Geeta M. Parmar, Rinkal R. Bhojani, Rima V. Kalariya, Tushar J. Mehta	EC	Spy Robo	201821005524
6	Ravi K. Gorecha, Vishal D. Jariya, Kashirudin R. Sheikh, Tushar J. Mehta	EC	Transrobo	201821005525
7	Sabhaya Disha, Pandya Bhakti, Rathod Komal, Raval Saloni, Nitin Adroja	EE	% THD Reduction For I-Phi Inverter Using Microcontroller	201621005876
8	Dhruv Gondaliya, Vidhi Ghoda, Jigar Makadiya, Jimit Talati	IC	Online Parking Reservation System	AWAITED

9	Rajdeepsingh Jadeja	MECH	Modification Of Piston And Cylinder Assembly By Replacing The Cyllindrical Geometry	201621001476
10	Rajdeepsingh Jadeja	MECH	Dual Overhead Crankshaft System	201621001477
11	Akash Radadiya	MECH	Design Aspects And Modification & Development Of CAM	201621006989
12	Keval Gohil,Mohit Lakhwani	MECH	Die Mechanism For Variable Thickness Sheet Bending Machine	AWAITED
13	Kishan M. Chawda,Dr. Ghanshyam D. Charya	MECH	Modification In Shaper Machine Mechanism To Reduce The Machine Time	AWAITED
14	Rahul D. Dholakia,Nikhil J. Devmurari,Mehul P. Kamani,Savan P. Teraiya,Prof.Mohit A. Lakhwani	MECH	Compound Gear Train & Derailleur Aided Bicycle	201821010176
15	Dhairya J. Solanki,Mayurdhvaj C. Chavada, Hiren H. Makwana	MECH	Open Jaw Double Ended Multisized Spanner	AWAITED
16	Monish Sagar,Saumil Patel,G.D.Acharya	MECH	Rainy Bag – A Complete Rescue For Bag	AWAITED

IX. Consultancy offered in the following research areas:

Area of Consultancy	Department
Soil Testing (GOG)	Chemistry
Environmental Audit (GPCB)	BT, Micro, IC, BC, Civil Engineering
Civil Material Testing	Civil Engineering
Analytical & <i>in-vitro</i> Testing	Chemistry, Biotechnology
IGNOU Counseling	Physics, Biology, Chemistry, Microbiology

X. Externally funded Research Projects

S.N	Level	Status	Number	Amount (in Lakhs)
1	Major	Completed	2	33.36
2		Ongoing	2	49.44
3	Minor	Completed	12	27.42
4		Ongoing	2	01.12
Total			18	111.34

Summary Attached in Annexure O.3

XI. Seminar/Workshop/Symposia Programmes Arranged

S.N.	Level	Number
1	International	2
2	National	6
3	State	1
4	Regional	15
5	Local	44
Total		68

Summary Attached in Annexure O.4