



Evaluative Report of the Department

1. Name of the Department: **Department of Mathematics**
2. Year of establishment: 2011
3. Is the Department part of a School/Faculty of the university? :
Yes School of Sciences
4. Names of programmes offered: PG (since 2011), UG 2014
5. Interdisciplinary programmes and departments involved: Yes
 - i. UG & PG with department of Computer Science & Information Technology
 - ii. UG with Department of Physics
6. Courses in collaboration with other universities, industries, etc. Nil
7. Details of programmes discontinued, if any, with reasons: Nil
8. Examination System: Semester (PG); Semester & CBCS (UG)
9. Participation of the department in the courses offered by other departments:
Yes (Faculty of Mathematics is teaching at Polytechnic, MANUU, Hyderabad)

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	1	-	-
Asst. Professors	2	1	1
Others (Guest Faculty)	4 (2 Professors, 1 Assistant Professor & 1 on Deputation from DDE, MANUU)		

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D./ M.Phil. guided for the last 4 years
Syed Najamul Hasan	M.Phil. Ph.D.	Professor	Clifford Algebras Celestial Mechanics Dynamical Astronomy	21	2 (awarded PhDs) 1 (PhD submitted) 5 (PhD work in



					progress)
Afroz	M.Phil Ph.D.	Assistant Professor	Wavelets & its Applications	5	-
Guest Faculty					
Khaja Moinuddin	M.Phil. Ph.D (submitted)	Assistant Professor (on additional responsibility from DDE, MANUU)	Algebra, Analysis Fluid Mechanics	23	
Ahmed Waheedullah	M.Phil Ph.D	Professor (Guest Faculty)	Mathematical Modelling of Biological systems	34	
Shabbir Ahmed	PhD	Professor (Guest Faculty)	Topology	30	
Syed Waseem Raja	M.Phil Ph.D. (submitted)	Assistant Professor (Guest Faculty)	Fluid Mechanics	16	

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:
 - (i) Prof. Sitaramaya, visiting professor from University of Hyderabad
 - (ii) Prof. Pattabhiramacharyulu N. Ch., visiting professor from NIT, Warangal
13. Percentage of classes taken by temporary faculty – programme-wise information: 50% in PG
14. Programme-wise Student Teacher Ratio: B.Sc. 3:1
M.Sc. 3:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Nil
16. Research thrust areas as recognized by major funding agencies: Nil
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Principal Investigator : S.N. Hasan
 Entitled: "Ionospheric aspects of Meteors by using MST Radar"
 (on going project at Dept. of Astronomy, Osmania University, Hyderabad)
 Funding agency: DST (project no: SR/S4/AS-85/2012)
 (Project transferred to Dr Chenna Reddy since PI shifted to MANUU)
18. Inter-institutional collaborative projects and associated grants received:



a) National collaboration: NIL b) International collaboration: Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : Nil

20. Research facility / centre with: Nil
state recognition
national recognition
international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

	International	National	Others
Peer Review Journals	17	9	
Non-Peer Review Journals			
e-Journals			
Conference proceedings		5	

Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

* Number of papers published in peer reviewed journals (national / international)

17 International + 9 National = 26

* Monographs

* Chapters in books

* Edited Books

* Books with ISBN with details of publishers

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

* Citation Index – range/average

* SNIP

* SJR

* Impact Factor – range / average

* h-index

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:

Prof. S N Hasan visited National Research Institute of Astronomy & Geophysics (NRIAG), Egypt on Collaborative Program in January 2014



26. Faculty serving in:

National committees b) International committees c) Editorial Boards d) any other (please specify)

Prof. S N Hasan:

- Life Member of the Astronomical Society of India (ASI)
- Member Scientific Organizing Committee of the ASI. (2006-2008)
- Executive Council Member of Astronomical Society of India (2006-2009)
- Member Scientific Organizing Committee for the International Earth Science Olympiad to be held in Mysore, September 2013.

Dr. Afroz

- Life Member Indian Society of Industrial & Applied Mathematics.

Mr. Khaja Moinuddin

- Life Member, Andhra Pradesh State Mathematical Society.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

(i) Prof. S N Hasan:

- Resource Person for Orientation & Refresher Programs organised by the UGC- Academic Staff College, Osmania University, Hyderabad since 2009-to date.
- Resource Person for training Teachers & Students for Astronomy Olympiad and Earth Science Olympiad.
- Mentor in the INSPIRE INTERNSHIP SUMMER CAMP, from 6-10 June 2011, Pt Ravishankarshukla University, Raipur.

(ii) Mr. Khaja Moinuddin

- Attended a Refresher Course in Basic Sciences Research Methodology at Academic Staff College, Osmania University, Hyderabad from 18/11/2013 – 07/12/2013.

28. Student projects:

- percentage of students who have done in-house projects including inter-departmental projects : 100%
- percentage of students doing projects in collaboration with other universities
- industry / institute : NIL

29. Awards / recognitions received at the national and international level by : NIL

- Faculty:



- Doctoral / post doctoral fellows:
 - Students:
30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. : NIL
31. Code of ethics for research followed by the departments:

The masters students are sensitised on issues such as academic freedom, sharing of resources, plagiarism and the intellectual property rights so that when they join for the PhD program they are aware of their freedom, responsibility and the ethics they need to follow in their research and academic careers.

32. Student profile programme-wise: current year:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PG	20 (2011)	6	4	100%	100%
	16 (2012)	5	3	100%	100%
	23 (2013)	7	3	50%	66%
	22 (2014)	9	2	semi	semi
				-	-

33. Diversity of students:

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the state	% of students from other countries
UG	NIL			NIL
PG				NIL

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :
Nil (The Department of Mathematics is only 3 years old)

35. Student progression (The Department of Mathematics is only 3 years old):

Student progression	Percentage against enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed Campus selection	NIL



Other than campus recruitment	
Entrepreneurs	NIL

*The Department of Mathematics is only 3 years old. UG Programme was started in 2014. Research programs have not been initiated yet.

36. Diversity of staff:

Percentage of faculty who are graduates	
Of the same university	NIL
From other universities within the state	UG – 66.7%, PG – 66.7%
From universities from other states from	UG – 33.3%, PG – 33.3%
Universities outside the country	Ph.D. 33.3%

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 2 submitted Ph.D. (awaiting results)

38. Present details of departmental infrastructural facilities with regard to

(a) Library : Central Library caters to the needs of the Dept.

(b) Internet facilities for staff and students: Yes

(c) Total number of class rooms: 3

(d) Class rooms with ICT facility: 1

(e) Students' laboratories: Computer Laboratory

(f) Research laboratories: NIL (Not required)

39. List of doctoral, post-doctoral students and Research Associates: NIL

(a) from the host institution/university -

(b) from other institutions/universities -

40. Number of post graduate students getting financial assistance from the university.
100%

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

42. Does the department obtain feedback from

(a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Regular meetings are held by Dean, School of Sciences with the Heads of the Departments and the Faculty of Sciences. Feedback is taken and on the basis of feedback the examination & evaluation and the courses are restructured. New add-on courses are being introduced to help the students improve their



communication skills and soft skills.

- (b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes

Regular feedback is taken from students and measures are taken to modify teaching methodology to meet their requirements.

- (c) Alumni and employers on the programmes offered and how does the department utilize the feedback? Univesity

The Department of Mathematics is only 3 years old – hence no alumni yet.

43. List the distinguished alumni of the department (maximum 10)
The Department of Mathematics is only 3 years old – no alumni yet.

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Special lectures & seminars are frequently organised for student benefit.

45. List the teaching methods adopted by the faculty for different programmes.

Audio-visual aids, computer facilities and resources from the internet are used to supplement class-room activity, Regular tutorials are conducted both at UG and PG level to address difficulties and problems of the students.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

By having regular faculty meetings and students teacher meetings and having regular class tests and seminars the outcome of the program objectives are monitored.

47. Highlight the participation of students and faculty in extension activities.
a) Seminar
b) Conferences
c) Workshops
d) Out-reach activities

48. Give details of “beyond syllabus scholarly activities” of the department.

Through departmental seminars and extension lectures by guest faculty the sudents are given a broader and deeper perspective to learning mathematics and science and the relevance of scientific research society.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NO



50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Dr. S N Hasan's work on generating new class of periodic solutions for the three body problem finds applications in planning orbits for artificial satellites around the Earth or Earth-Moon system and his work on Mass segregation in star clusters has importance in understanding the processes of star formation and evolution.

Dr. Afroz's work finds applications in developing ECG systems

Mr. Khaja Moinuddin's works gives a deeper understanding of viscous flows which can be applied to both physical and biological systems.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- (i) A diverse group of students coming from different parts of India Viz. Kashmir, West Bengal, Uttar Pradesh, Chattisgarh, Jharkhnad, Bihar, Karnataka, Andhra Pradesh & Telangana
- (ii) Faculty with varied & diverse research interest – viz. Wavelet & its applications, Algebra, Analysis, Fluid Mechanics, Celestial Mechanics & Dynamical Astronomy.
- (iii) Good infrastructure
- (iv) Faculty interested and actively involved in adopting innovative teaching methodology.
- (v) 95% students live on campus making it possible to involve them in curricular and extra-curricular activities beyond teaching hours.

Weaknesses:

- (i) It's a very young department, hence presently it does not have established alumni & the support it can get from its alumni.
- (ii) Most students come from humble background hence need a lot of support and counselling to help them define their career goals.
- (ii) The department does not presently have a department library, the students and the faculty need to depend on the Central Library Facility.
- (iv) The department being very young the laboratories need to be strengthened and in the process of developing them.
- (v) Placements activities such as career counselling, training in communication and soft skills need to be strengthened. Academia-Industry interface needs to be developed and we are in a process in doing so.



Opportunities and Challenges:

Students come from varied backgrounds therefore the challenge for the department is to integrate them into a homogeneous group, improve their communication skills and soft skills and make them employable by National and International standards.

52. Future Plans of the Department.

The Department of Mathematics is a young department. The permanent faculty though very small comes from varied backgrounds and have diverse research interests – viz Wavelet & its applications, Algebra, Analysis, Fluid Mechanics, Celestial mechanics & Dynamical Astronomy. Students in the department come from different parts of the country ranging from Kashmir, West Bengal, Uttar Pradesh, Chattisgarh, Jharkhand, Bihar, Karnataka, Andhra Pradesh & Telangana. This makes the teaching and learning environment very rich. The aim of the department is to sharpen students' rational and mathematical skills, expose them to the varied possibilities of application of mathematics to different branches of science, engineering and industry. The department plans to develop a strong computer centre and train students in simulations and application of information technology in varied disciplines. The students will be trained such that they are encouraged to take up research activity and also make them employable by national and international standards. The faculty will be involved in getting funds from various national and industrial sources. The department also plans to develop collaborative and student exchange programs with Universities & Institutes at National & International level.

Evaluative Report of the Department

1. Name of the Department: **MANUU Polytechnic, Bengaluru**
2. Year of establishment: 2008
3. Is the Department part of a School/Faculty of the university: Yes
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) 3 Year Diploma course in Engineering
5. Interdisciplinary programmes and departments involved: None
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil
7. Details of programmes discontinued, if any, with reasons: None
8. Examination System: Annual & Semester
9. Participation of the department in the courses offered by other departments: Nil
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-----	-----	
Associate Professor	03	-----	
Asst. Professors	14	09	
Others (Principal)	01	01	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Year of Experience	No. of Ph.D/ M.Phil. Students guided for the last 4 years
Mr.Mohammed Riazur Rahaman	M.Tech	Principal	Industrial Management	18	
Mr.Nagaraju Mandly	M.Phil	Asst Prof	English Language Teaching	07	
Dr.Mohammed Shahjade	Ph.D (Mathematics)	Asst Prof	Applied Mathematics	11	



Dr.Ritesh Kumar	Ph.D (Physics)	Asst Prof	Nano Technology, Fiber Optics, X-Ray Diffraction and Material Sciences	10	
Mr.Zahir Abbas Khan	M Tech	Asst Prof	CS & E	06	
Mr.Ajmal Sadiq Mohammed	M Tech	Asst Prof	Digital Systems	03	
Mr.Fairoz Pasha	M.Tech	Asst Prof	CS & E	07	
Mr.Mahboob ul Haque	M Tech	Asst Prof	Micro Electronics	10	
Mr.A.Amar Singh	M Tech	Asst Prof	Telecommuni cation System Engg	03	
Mr.Syed N Madani	M Tech	Asst Prof	Soil Dynamics	01	

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: None
13. Percentage of classes taken by temporary faculty – programme-wise information

Diploma in Civil Engineering	75%
Diploma in Electronic Communication & Engineering	35%
Diploma in Computer Science & Engineering	40%

14. Programme-wise Student Teacher Ratio

Diploma in Civil Engineering	24:1
Diploma in Electronic Communication & Engineering	20:1
Diploma in Computer Science & Engineering	16:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Support Staff	Sanctioned	Filled (Available)
Technical	03	02
Administrative	11	05

16. Research thrust areas as recognized by major funding agencies: Nil
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. Nil



18. Inter-institutional collaborative projects and associated grants received : Nil
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received : Nil
20. Research facility / centre with
- state recognition Nil
 - national recognition Nil
 - international recognition Nil
21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil
22. Publications: Nil during 2014
23. Details of patents and income generated: Nil
24. Areas of consultancy and income generated: Nil
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil
26. Faculty serving in Nil
- a) National committees b) International committees c) Editorial Boards
d) any other (please specify)
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). Nil during 2014
28. Student projects : Nil
- percentage of students who have done in-house projects including inter-departmental projects
 - percentage of students doing projects in collaboration with other universities / industry / institute
29. Awards / recognitions received at the national and international level by
- Faculty Nil
 - Doctoral / post doctoral fellows Nil
 - Students Nil



30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. Nil
31. Code of ethics for research followed by the departments Nil
32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected in 2014		Pass percentage 2013-14	
		Male	Female	Male	Female
Diploma in Civil Engineering		40	----	66%	----
Diploma in Electronic Communication & Engineering		40	----	52%	----
Diploma in Computer Science & Engineering		39	----	73%	----

Note: - A Total 156 applications received for 03 programmes and students will be allotted the programmes according to their choice issued on Entrance/ Merit.

33. Diversity of students (Admitted in 2014)

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Diploma in Civil Engineering	12%	----	88%	
Diploma in Electronic Communication & Engineering	4%	----	96%	
Diploma in Computer Science & Engineering	----	28%	68%	

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. Nil
35. Student progression:

Students Progression	Percentage against enrolled
UG to PG.	--



PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post –Doctoral	--
Employed Campus Selection Other than Campus recruitment	20%
Entrepreneurs	--
Diploma to UG	60%

36. Diversity of staff:

Percentage of faculty who are graduates	
Of the same university	Nil
From other universities within the state	20%
From universities from other states from	80%
Universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period Nil

38. Present details of departmental infrastructural facilities with regard to

- a) Library: 01
- b) Internet facilities for staff and students: Yes
- c) Total number of class rooms: 06
- d) Class rooms with ICT facility: No
- e) Students' laboratories : 10 no's
- f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates: NA

- a) from the host institution/university
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: NA

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

42. Does the department obtain feedback from: Yes



- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

43. List the distinguished alumni of the department (maximum 10):

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Nil

45. List the teaching methods adopted by the faculty for different programmes.

Conventional class room based teaching using chalk & board where necessary audio / video lectures are used.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The objective of Polytechnic is to offer job oriented courses. The objective is met by providing adequate knowledge & training and also provide necessary guidance in placing them in appropriate industries.

47. Highlight the participation of students and faculty in extension activities.

48. Give details of “beyond syllabus scholarly activities” of the department.

49. State whether the programme/ department is accredited/ graded by other agencies?
If yes, give details.

50. Briefly highlight the contributions of the department in generating new knowledge,
basic or applied.

Polytechnics run vocational & technical courses: The applied knowledge base is enhanced. Hitherto unknown employment opportunities are penel up for learners.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Empowering the backward sections of society
- Well qualified staff
- Genuine interest of students
- Latest equipments



- Innovativeness

Weaknesses:

- Books in Urdu difficult to get
- Drop out tendency
- Poor parental response
- Girls not coming in good numbers

Opportunities:

- Higher educational opportunity
- Job-orientedness improves future prospects
- University helps in placements
- Opportunity of vertical development

Challenges:

- Recruiting the reluctant learner
- Retention
- Teaching without sufficient material in Urdu

52. Future plans of the department:

- To initiate more technical courses
- To upgrade the Polytechnic to Engineering college
- To address the skill requirements of the stakeholders



Evaluative Report of the Department

1. Name of the Department: **MANUU Polytechnic, Darbhanga**
2. Year of establishment: 2008
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5. Interdisciplinary programmes and departments involved: None
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil
7. Details of programmes discontinued, if any, with reasons: None
8. Examination System: **Annual/Semester** ✓
9. Participation of the department in the courses offered by other departments: Nil
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-----	-----	
Associate Professor	01	01	
Asst. Professors	08	08	
Others (Principal)	01	01	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Year of Experience	No. of Ph.D/ M.Phil. Students guided for the last 4 years
Mr. Abdul Mukhsit Khan	M.Tech, Ph. D. (Pursuing)	Principal	Computer Science	14	
Mr. Aftab Ahmad Sulaiman	M. Sc., Ph. D.	Asst Prof	Metallo Organic Chemistry	05	
Dr. Shamsur Rahman	M. Sc., Ph. D.	Asst Prof	Mathematics (Differential Geometry)	06	

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: None



13. Percentage of classes taken by temporary faculty – programme-wise information

Diploma in Civil Engineering	75%
Diploma in Electronic Communication & Engineering	35%
Diploma in Computer Science & Engineering	40%

14. Programme-wise Student Teacher Ratio

Diploma in Civil Engineering	24:1
Diploma in Electronic Communication & Engineering	20:1
Diploma in Computer Science & Engineering	16:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Support Staff	Sanctioned	Filled (Available)
Technical	03	02
Administrative	11	05

16. Research thrust areas as recognized by major funding agencies: Nil
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. Nil
18. Inter-institutional collaborative projects and associated grants received
 a) National collaboration b) International collaboration Nil
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. Nil
20. Research facility / centre with
- state recognition Nil
 - national recognition Nil
 - international recognition Nil
21. Special research laboratories sponsored by / created by industry or corporate bodies Nil
22. Publications: Nil during 2014

* Number of papers published in peer reviewed journals (national / international): 7



- * Monographs
 - * Chapters
 - in Books
 - * Edited
 - Books
 - * Books with ISBN with details of publishers
 - * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
 - * Citation Index – range / average
23. Details of patents and income generated: Nil
24. Areas of consultancy and income generated: Nil
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad Nil
26. Faculty serving in Nil
 b) National committees b) International committees c) Editorial Boards d) any other (please specify)
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). Nil during 2014
28. Student projects : Nil
- percentage of students who have done in-house projects including inter-departmental projects
 - percentage of students doing projects in collaboration with other universities / industry / institute
29. Awards / recognitions received at the national and international level by
- Faculty Nil
 - Doctoral / post doctoral fellows Nil
 - Students Nil
30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. Nil
31. Code of ethics for research followed by the departments Nil
32. Student profile programme-wise:

Name of the	Applications	Selected in 2014	Pass percentage 2013-14
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Program	received				
		Male	Female	Male	Female
Diploma in Civil Engineering	100	40	----	76%	----
Diploma in Electronic Communication & Engineering	112	40	----	64%	----
Diploma in Computer Science & Engineering	94	39	----	74%	----

33. Diversity of students (Admitted in 2014)

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Diploma in Civil Engineering	12%	----	88%	
Diploma in Electronic Communication & Engineering	4%	----	96%	
Diploma in Computer Science & Engineering	----	28%	68%	

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. Nil

35. Student progression:

Students Progression	Percentage against enrolled
UG to PG.	--
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post –Doctoral	--
Employed Campus Selection Other than Campus recruitment	40%
Entrepreneurs	--
Diploma to UG	60%

36. Diversity of staff:

Percentage of faculty who are graduates	
Of the same university	Nil
From other universities within the state	30%
From universities from other states from	70%
Universities outside the country	Nil



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil
38. Present details of departmental infrastructural facilities with regard to
- a) Library: 01
 - b) Internet facilities for staff and students: Yes
 - c) Total number of class rooms: 09
 - g) Class rooms with ICT facility: No
 - h) Students' laboratories : 12
 - i) Research laboratories : Nil
39. List of doctoral, post-doctoral students and Research Associates: NA
- a) from the host institution/university
 - b) from other institutions/universities
40. Number of post graduate students getting financial assistance from the university: NA
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:
42. Does the department obtain feedback from: Yes
- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
43. List the distinguished alumni of the department (maximum 10):
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Nil
45. List the teaching methods adopted by the faculty for different programmes.
- Conventional class room based teaching using chalk & board where necessary audio / video lectures are used.



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The objective of Polytechnic is to offer job oriented courses. The objective is met by providing adequate knowledge & training and also provide necessary guidance in placing them in appropriate industries.

47. Highlight the participation of students and faculty in extension activities.
48. Give details of “beyond syllabus scholarly activities” of the department.
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
Polytechnics run vocational & technical courses: The applied knowledge base is enhanced. Hitherto unknown employment opportunities are penel up for learners.
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Empowering the backward sections of society
- Well qualified staff
- Genuine interest of students
- Latest equipment's

Weaknesses:

- Books in Urdu difficult to get
- Drop out tendency
- Poor parental response
- Girls not coming in good numbers

Opportunities:

- Higher educational opportunity
- University helps in placements
- Opportunity of vertical development

Challenges:

- Recruiting the reluctant learner
- Retention
- Teaching without sufficient material in Urdu



52. Future plans of the department

To introduce new Technical Programmes and
to have more collaborations with industries for internship and placement



Evaluative Report of the Department

- Name of the Department: **MANUU Polytechnic, Hyderabad**
- Year of establishment: 2008
- Is the Department part of a School/Faculty of the university? Yes
- Names of programmes offered:

SNO.	BRANCH	DURATION
1.	Diploma in Electronics & Communication Engineering	3 Years
2.	Diploma in Computer Science & Engineering	3 Years
3.	Diploma in Information Technology	3 Years
4.	Diploma in Civil Engineering	3 Years

- Interdisciplinary programmes and departments involved: No
- Courses in collaboration with other universities, industries, foreign institutions: No
- Details of programmes discontinued, if any, with reasons: N/A
- Examination System: Semester
- Participation of the department in the courses offered by other departments: -
- Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Posts	Sanctioned	Filled	Actual including CAS & MPS
Professor	01	01	-
Associate Professors	04	00	-
Assistant Professors	19	18	-
Others (Guest Faculties)	-	-	-

- Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Phd/M.Phil guided for the last 4 years
Dr. Mohd. Yousuf Khan	M.Tech,Ph.D	Principal	Wireless Communications	15	-



Mr. Sharath Chandra	M.A, M.Phil(Ph.D)	Asst.Prof. English	English	14	-
Mrs. Abida Murtaza	MSC,Med, M.Phil	Asst. Prof. Chem.	Inorganic chemistry	20	-
Mr. Syed Azharuddin	MSC,Med, M.Phil, (Ph.D)	Asst. Prof. Maths	Special Functions	15	-
Mr. Syed Arfath Ahmed	M.Tech	Asst. Prof.CSE	CSE	4	-
Mr.Ch. Mutyala Rao	M.Tech	Asst. Prof.IT	IT	8	-
Mr. Mirza Vilayath Ali Baig	M.Tech	Asst. Prof. Civil	Transportation Engineering	6	-
Ms. Hajira Fatima	M.E	Asst. Prof. ECE	Systems & Signal Processing	11	-
Ms.Asiya Jaleel	M.Tech	Asst. Prof. IT	CSE	6	-
Ms. Ismat Fatima	M.Tech, MBA	Asst. Prof. ECE	DSCE	6	-
Mr. Md. Fasihuddin	M.Tech	Asst. Prof. CSE	CSE	10	-
Mr.Syed Mohd. Fazal ul Haque	M.Tech, (Ph.D)	Asst. Prof. CSE	CSE	10	-
Mrs. Shafia Shaik	M.Tech	Asst. Prof. ECE	VLSI	5	-
Ms. Nida Yasmeen	M.E	Asst. Prof. ECE	ECE	0.5	-
Mr. A.M.S Hasan Quadri	M.Tech	Asst. Prof. Civil	Environmental Engineering	6	-
Mr. Mohd. Shaheer Zaman	M.S	Asst. Prof. ECE	ECE	1	--
Mr. Iqbal Khan	M.Tech	Asst. Prof. Civil	Environmental Engineering	3	-
Mr. Mohd. Abdul Hafeez	M.E	Asst. Prof. Civil	Structural Engineering	3	-
Dr. Syed Mohd Shoaib	PhD	Asst. Prof Physics	Bio Physics	7	-
Mr. Khaleel ur Rahaman	MSC, B.ed, M.Phil	Guest Faculty	Electronics	14	-
Mr. Md.Nadeem Ullah Khan	B.Tech	Guest Faculty	CSE	4.5	-
Mr. Abdul Rub bin Mohsin	M.Tech	Guest Faculty	CSE	4.5	-
Mr. Mohd. Touseef Sumer	B.Tech M.Tech	Guest Faculty	Systems and Signal Processing	4.5	-
Mrs. Shahanaz	B.Tech	Guest Faculty	CSE	12	-



Mrs. Forhana Begum	M.A, PGDTE, TOEFL	Guest Faculty	English	14	-
Mr. Syed Hamid Mdin Quadri	M.Tech, M.B.A, MPhil	Guest Faculty	ECE	10	-
Mr.Mir Farooq Ali	B.E	Guest Faculty	Civil	3.5	-
Ms. Amara Anjum	M.Tech,	Guest Faculty	VLSI	6	-
Mr. Mohd. Moizuddin	B.Tech	Guest Faculty	Civil	3	-

19. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil

20. Percentage of classes taken by temporary faculty- programme-wise information

SNO.	BRANCH	PERCENTAGE
1.	Diploma in Electronics & Communication Engineering	37%
2.	Diploma in Computer Science & Engineering	40%
3.	Diploma in Information Technology	33%
4.	Diploma in Civil Engineering	33%

21. Programme-wise Student Teacher Ratio: 1:17 (Average of all programs)

22. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Sl.		sanctioned	filled	actual
1.	Technical	14	07	-
2.	Administrative staff		07	

23. Research thrust areas as recognized by major funding agencies: Nil

24. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : Nil

25. Inter-institutional collaborative projects and associated grants received: Nil
a) National collaboration b) International collaboration

26. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :Nil



27. Research facility / centre with : Nil
28. Special research laboratories sponsored by / created by industry or corporate bodies : Nil
22. Publications :

Sno	Name of the Faculty	Title	Publisher	ISBN/ISS N No.
1	Dr. Mohd Yousuf Khan	Energy Efficient Mass Street Lighting System	IJETED	2249-6149
		Minimizing the Overhead in the Terminodes routing Protocols in Mobile Ad-Hoc Networks	IJCSN	2277-5420
		A new Radix-4FFT Algorithm	IJARET	0976-6499
		4G Wireless Communication as an Emerging Revolutionary Technology	IJESRT	22779655
		Image Enhancement and Hardware Implementation of Edge Detected Vascular Images using Simulink Model	IJARCCCE	2278-1021
2	Mr. Md Touseef Sumer	Secure Emails: An integrity Assured Email Systems Using PKI	IAETSD	99781505 606395
		Digital Image Processing in Medical Application: A case study	IJERT	22780181
		4G Wireless Communication as an Emerging Revolutionary Technology	IJESRT	22779655
		A Study on Reduction of Impulse Noise from Corrupted Images Using Simple Adaptive Filtering.	IJATCSE	22783091
		Current Advancements in Wireless Communication Technology	IJATCSE	22783091
		Using Telecommunication Services Effectively for E-Governance	IJITAM	23473622
		Salient Features Extraction For Emotion Detection Using Kull back Liebler Divergence,	IOSR	22781676
		Emerging Trends in Wireless Communication Technology	IJESRT	22779655
3	Syed Arfath Ahmed	Minimizing the overhead in the terminode routing protocol in mobile Adhoc networks	IJCSN	2277-5420
4	Mohd Yousuf	Secure Modification to Hsiang-SHIH'S Schema: A Case Study.	IJESRT	2277-9655
		Secure and Efficient Data Transmission for Cluster-based Wireless Technology Networks	IJESRT	2277-9655
		Secure Emails: An integrity Assured Email Systems Using PKI	IAETSD	99781505 606395



5	Mr. Syed Hamid Mohiuddin Quadri	Talent Acquisition: a Tool for Human Capital	ICFBM-13	978-93-81212-33-2
		E-Commerce and Its Effectiveness-A Case Study of Hewlett Packard	NEITHAL PATHIPPAGAM PUBLISHERS	978-93-80890-27-2
		Challenges and opportunities in banking Sector with Reference to Human Resources	Paramount Publishing House	978-93-82163-81-7
		The Challenges and Opportunities of FDI in Retail Sector-A Study	Kaveripakkam College of Arts and Science	ISSN-22496459
		Cooperative Education Challenges and Opportunities-a study	National Conference on Emerging Issues	978-93-5097-182-6
		Role of I.T.in Retail Sector	C.K.Prahald National Conference	978-93-82163-24-4
		Rural Marketing: A paradigm Shift in Indian Marketing Practices	Indian Conference on Management -innovative Strategies	978-93-80697-81-9
		Emerging Trends in Strategic Human Resource Management	Oriental Journal Law and Social Sciences	0973-7480

• Number of papers published in peer reviewed journals (national / international) 24 No's

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad : Nil

Sno.	Name of Faculty	National level
1	Dr. Mohd Yousuf Khan , Principal Polytechnic Hyderabad	Invited by AICTE for (National Convention on Polytechnic Education) at Mumbai on 4 th Jun 2012.
2	Dr. Mohd Yousuf	Called for presentation at Mini Overseas



	Khan , Principal Polytechnic Hyderabad	Employees Conference Feb 2014 by Overseas Manpower Company Andhra Pradesh Limited
3	Dr. Mohd Yousuf Khan, Principal Polytechnic Hyderabad	Inspected BSNL Hyderabad Labs as an Expert member of AICTE, New Delhi in Aug 2014.
4	Ms Hajira Fathima, Asst. Prof Polytechnic Hyderabad	Was invited as a resource person for DRDO Hyderabad Research Labs in Aug 2014
5.	Dr. Syed Mohd Shoiab, Asst. Prof Polytechnic Hyderabad	Was invited by National Institute of Disaster Management for ASEM countries round table meeting in new Delhi on 4 th & 5 th Dec 2014.

26. Faculty serving in
a) National committees b) Editorial Boards c) any other (please specify)

Dr. Mohd Fahim Akhtar, Associate Professor

- Member BOS in Department of Islamic Studies, Osmania University.
- Member General Assembly, Institute of Objective Studies, New Delhi.
- Member Advisory Board of Journal “Motalaat” Delhi, ISSN: 2278-5302

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Sno	Name of the Faculty	Refresher	Orientation	Workshop etc
1	Mr P. Sharath Chandra, Asst Prof	-	2011-2012	-
2	Mrs Abida Murtuza, Asst Prof	-	2011-2012	-
3	Mr Syed Azher Uddin, Asst Prof	-	2012-2013	-
4	Mr Syed Arafath Ahmed, Asst Prof	-	-	2014

28. Student projects
- percentage of students who have done in-house projects including inter-departmental projects : Nil
 - percentage of students doing projects in collaboration with other universities industry / institute : Nil



29. Awards / recognitions received at the national and international level by :

- Faculty

Dr. Shoaib, Assistant Professor, Physics Polytechnic Hyderabad
Received Gold Medal & was awarded “Young Scientist of the year 2013”.

- Doctoral / post doctoral fellows --

Dr. Mohd Yousuf Khan, Principal Polytechnic Hyderabad

1. PhD Awarded in year 2011.
2. Received Madina Education gold medal in 2013.

Dr. Ayesha Siddiqua, Documentation officer Polytechnic Hyderabad

1. PhD Awarded in year 2011.
2. Received Madina Education gold medal in 2013.

Dr. Mohd Wasim Raja, Professional Assistant Polytechnic Hyderabad

1. PhD Awarded in year 2013.

- Students --

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. -

31. Code of ethics for research followed by the departments: No research programs are offered at the Polytechnic.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
Diploma in ECE	179	60	00	100%	-
Diploma in CSE		51	07	88%	12%
Diploma in IT		21	01	95.5%	4.5%
Diploma in Civil		56	04	93%	7%

33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Diploma in ECE	-	09	51	-
Diploma in CSE	-	16	35	-
Diploma in IT	-	15	06	-
Diploma in Civil	-	02	54	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. –

35. Student progression :

	Student progression	Percentage against enrolled
<input type="checkbox"/>	Campus selection	12
<input type="checkbox"/>	Other than campus recruitment	33

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	--
from other universities within the State	93%
from universities from other States from universities outside the country	07%
	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : -

Sno	Name of the Faculty	Awarded(M.Phil/PhD)	year
1.	Dr. Ayesha Siddiqua, Documentation officer	M.Phil	2009
2.	Dr. Ayesha Siddiqua, Documentation officer	PhD	2011
3.	Mr. Syed Hamid Mohiuddin Quadri	M.Phil	2013
4.	Dr. Mohd Wasim Raja, Professional Assistant	PhD	2013
5.	Dr. Mohd Yousuf Khan, Principal	PhD	2011



38. Present details of departmental infrastructural facilities with regard to

d) Library

Sl.No		Number	Value
1	Text Books	3441	RS 56,4133/-
2	Journals	14	RS18,110/-
3	CD & Video	200	-

e) Internet facilities for staff and students:

The Department is enriched with WIFI Facility for both faculty and students

f) Total number of class rooms - 12

j) Class rooms with ICT facility --

k) Students' laboratories -- 14

l) Research laboratories --

m) Research & Student development cell-- 1

39. List of doctoral, post-doctoral students and Research Associates –

a) from the host institution/university

b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: -

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. -

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

More formal feedback mechanism is being involved like oral feedback, student counselling, classroom interaction etc



43. List the distinguished alumni of the department (maximum 10):

Sl-No	Enrolment No Department	Name of the Candidates
1.	1101-Civil-01	MD. TASNIMUL HAQUE
2.	1101-Civil-03	SYED SHAHZAD
3.	1101-Civil-04	MD. AQUIB UDDIN
4.	1101-Civil-07	NEYAMUDDIN
5.	1001-CIVIL-06	WAJIH SAQUIB
6.	1101-CSE-02	RUBEENA BEGUM
7.	1101-CSE-07	MD. AKRAM
8.	1101-CSE-09	MD. DANISH
9.	1101-CSE-12	MD. UMAR KHAIYAM
10.	1101-CSE-15	SYED MAHMOOD ALI
11.	1101-ECE-05	MD. QUASIM
12.	1101-ECE-08	MD. TANVEER UL HAQUE
13.	1101-ECE-10	SHAIK NADEEM
14.	1101-ECE-16	PARWEJ AHMAD
15.	1101-ECE-19	MD. SHARIQUE
16.	1101-IT-02	MD. ISTIYAKUR RAHMAN
17.	1101-IT-04	MD. TAUSIF
18.	1101-IT-05	NAFIS AHMAD
19.	1101-IT-06	MD. MUDABBIR HASSAN
20.	1101-IT-07	ABDULLAH

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Conducted Career Guidance and Placement Training programs by industry experts for students.
- Technical Fest (Azad Tek Fest) is being conducting every year.
- Inauguration of Azad Tek Fest 2014
- Students displaying their projects-Azad Tek Fest 2014
- Guest Lectures were conducted for Computer Science, Information Technology and Electronics & Communication Engineering Students.
- Guest lecture for CSE,ECE & IT students
- Career guidance by JETKING Software Ltd. for CSE,ECE,IT & CIVIL students
- JETKING Software Ltd. team being facilitated by Principal
- Visit of Polytechnic students to BSNL Hyderabad.
- Visit of ECE students to BSNL Hyderabad
- Visit of Polytechnic students to NRSC Hyderabad.
- Visit of ECE students to NRSC
- Visit of Polytechnic students to APTRANSCO Hyderabad.
- Visit of Polytechnic students to Nagarjuna Sagar Dam.
- Students of Civil Engineering at Nagarjuna Sagar Dam
- Participation of students in Blood donation camp.



- Students of polytechnic participating in blood donation camp.
 - Participation of students in “Run for education and Promotion for Urdu language”.
 - Run for education and Promotion for Urdu language
 - Proposed Guest lecture on 5th Jan by Prof. Siraj Ahmed from MANIT Bhopal on Renewable Energy.

- 45. List the teaching methods adopted by the faculty for different programmes:
 - Delivering lectures using LCD for power point presentations
 - Encouraging meaningful interactions with the students
 - Outcome Based Education.
 - Making group activities work and group work and study team practical tips for group work.
 - Conducting tutorials
 - Providing supplementary learning materials for better understanding

- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
 - Encouraging the students to participate in competitive examinations
 - Taking up remedial measures to enhance their skills and knowledge level
 - Conducting Orientation programme for students to give exposure for the educational, employment and research opportunities.

- 47. Highlight the participation of students and faculty in extension activities.
 - Faculty are actively involved in research work
 - Students are involved in doing project works
 - CSE students displaying their project work.
 - Technical festivals are being conducted for students to explore their skills.
 - Students demonstrating their skills during Technical Fest
 - Conducted Swachh Bharat Abhiyan program by Polytechnic Hyderabad on 9th Dec 2014.
 - Polytechnic Hyderabad conducted Swachh Bharat Abhiyan program
 - Conducted in-house one week (23th Dec 2014 to 1st Jan 2015) “Computer Skills Enhancement Program” for Teaching and Non-Teaching Staff MANUU Polytechnic Hyderabad.
 - Computer skills enhancement program for Teaching and Non-Teaching Staff during winter vacation

- 49. Give details of “beyond syllabus scholarly activities” of the department:
 - Lectures are being arranged on advanced topics by industry experts
 - Extension lectures are being arranged by experts in respective fields





50. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Got All India Council for Technical Education (AICTE), New Delhi, Approval in the year 2012-2013.

51. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

- Updating of syllabus
- Providing guidance for projects
- Faculty of all programs are involved in research work in respective areas.
- Translation of material from English to Urdu retaining global terminology.
- Bringing awareness of various competitive examinations.
- Guiding 6th semester students for industrial training, employment and higher education.

52. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Dedicated, Hardworking, Experienced and highly qualified faculty.
- Department is producing potential technocrats of diverse skills to serve society and nation at large.
- State of art Infrastructural facilities.
- Good number of students in each program from regional and other states.
- Guidance, motivation and support from principal.

Weaknesses:

- Non availability of Subject Books in Urdu
- Inadequate Teaching staff.
- Inadequate Non-Teaching staff and Ministerial staff.
- Opportunities:
- Good quantity of students are being placed in companies in India & Abroad
- Many students have taken admission in central and state universities for higher studies and having opportunity to take admission as lateral entry in directly 2nd yr of the course.
- Well stocked library (main & departmental library).
- Spoken English (for students), improvement classes.

Opportunities:

- Good quantity of students are being placed in companies in India & Abroad
- Many students have taken admission in central and state universities for



higher studies and having opportunity to take admission as lateral entry in directly

2nd yr of the course.

- Well stocked library (main & departmental library).
- Spoken English (for students), improvement classes.

Challenges:

- Difficult to make students from rural areas to avail the opportunities, grooming them, upgrading their communication skills (specially spoken aspect) and reducing the gap between urban and rural students with respect to education.
- Teaching technical subjects in Urdu medium without availability of books in Urdu language.
- To develop a research unit of the department
- To produce quality technical instruction material in Urdu language.
- To keep ourselves upgraded for the new emerging technologies and industrial demands.

53. Future plans of the department.

- Introduction of New Programs like Diploma in Electronic & Electrical Engineering and Mechanical Engineering.
- MOUs with Industries/MNCs/Govt Organisation etc.
- Industry Institute Interface.
- Translation of subject books into Urdu retaining the global terminology.
- The department along with ITI Hyderabad has initiated establishment of MANUU Energy Park (Renewable Energy).
- To bring in and implement advanced teaching and learning system, making MANUU Polytechnic Hyderabad a model Polytechnic college at National level.