

PROPOSAL FOR DEVELOPMENT OF

(Action Plan for five years starting from years 2014-15 to 2018-19)

Madan Mohan Malaviya University of Technology, Gorakhpur

Incorporated by

***Uttar Pradesh Madan Mohan Malaviya University of
Technology Act-2013 (Uttar Pradesh Act No. 22,2013)***

***Through notification no. 2998/lksyg-1-2013-
3(18)/2012Vhlh&II dated 28th November,2013 of Section-
I, Technical Education Department, Government of Uttar
Pradesh***

Submitted to

**Technical Education Department
Government of Uttar Pradesh, Lucknow**

By

**Madan Mohan Malaviya University of Technology,
Gorakhpur – 273010 (U.P.) – INDIA**

January,2013

CONTENTS

I Summary Sheet

1. Introduction
2. Vision of the University
3. Objectives of the University
4. Present state of affairs in the University
5. Proposed Degree Programmes in the University
6. Proposed Infrastructure and Human Resource Requirement
7. Annual Non-Plan and Plan Budget Requirements

1. Introduction:

Madan Mohan Malaviya University of Technology has been incorporated on 1st December, 2013 through Uttar Pradesh Madan Mohan Malaviya University of Technology Act-2013 (Uttar Pradesh Act No. 22,2013) by notification no. 2998/lksyg-1-2013-3(18)/2012Vhlh&II dated 28th November,2013 of Section-I ,Technical Education Department, Government of Uttar Pradesh after reconstituting the Madan Mohan Malaviya Engineering College, Gorakhpur.

As per the provisions under article 4 of the Act all the rights and liabilities of the Madan Mohan Malaviya Engineering College, Gorakhpur have been transferred to, and become the rights and liabilities of the University. Thus, all the existing properties, moving and immovable, of or belonging to Madan Mohan Malaviya Engineering College have been vested with the University.

University is presently having five undergraduate and 12 post graduate programmes running in its campus. It aims at starting various courses at undergraduate and post graduate level for meeting the requirement of quality technical manpower in the country. Present infrastructure of the University is quite old and is not sufficient for meeting its present day requirements. There also exists acute shortage of teachers due to no new recruitment since last five years and due to retirement of faculty members. Thus there is critical requirement of addition of infrastructure in terms of classrooms, seminar rooms, department laboratories, administrative offices, academic offices, hostel, guest house, auditorium etc.

Present proposal for development of the University has been prepared on the basis of inputs received by students, faculty and staff members of the University with due consideration to the regional and national technical manpower requirement. There have been various rounds of deliberations at different levels. Based on the inputs received it has been felt that the University should go for creation of suitable infrastructure and start some of the courses as proposed herein in next five years starting from 2014-15. The financial assistance required from U.P. State Government under non-plan and plan budget heads has been prepared in respect to each proposed item in this proposal. It includes the

2. Vision of the University:

To facilitate and promote studies, research, technology, incubation, product innovation and extension work in Science, Technology and Management Education , and also to achieve excellence in higher technical education.

3. Objectives of the University:

The Objectives of the University are;

- (a) To provide education to a large number of students coming from a variety of educational and socio-economic background in a wide range of applied science, engineering, technology, management disciplines to meet the national and globally competitive needs.
- (b) To strengthen the existing programmes and to start new courses addressing the local and global needs and improve the academic and research environment of the University.
- (c) To promote in students the values of continuous learning, improvement through development of various skills and relevant learning experience to facilitate their full contribution to the society to which they belong.
- (d) To promote student to work on collaborative applied research projects to gain research work experience and encourage students for undertaking post graduate studies and pursuing their research career.
- (e) To generate new knowledge and participate in the development of technologies by undertaking research at the globally acceptable levels.
- (f) To inculcate amongst students the quest for life long education, ability to think, analytical ability and problem solving skills.
- (g) To build and evolve effective bilateral mechanisms for industry participation to promote need based research and learning and making significant national contribution by creating a relevant knowledge base.
- (h) to set up innovation foundations, science and technology parks, knowledge parks and technology incubators to foster techno-entrepreneurship innovation and new product development;
- (i) To institute a strong community component by forging meaningful linkage based curriculum, faculty and students for incorporating a social perspective in technical education and to design and develop customized products as their needs.
- (j) To act as a trend setting institution and provide guidance and training to technical institutions in the state.
- (k) to disseminate knowledge and processes and their role in national development by organizing lectures. Seminars, symposia, workshops and conferences;
- (l) to publish periodicals, treatises, studies, books, reports, journals and other literature on subjects relating to science, engineering, technology and management;

- (m) to promote and foster cultural and ethical values with an view to promote and foster professional morality, research integrity, globally acceptable business ethics and morals for professionals and a commitment to the human values of truth, tolerance and justice.
- (n) To restructure the systems, structures and processes for academic, managerial, financial and administrative transparency and accountability.
- (o) to do all such things as are incidental, necessary or conducive to the attainment of all or any of the objectives of the University.

4. Present state of affairs in the University:

As per provisions of the Act everything pertaining to the Madan Mohan Malaviya Engineering College has been automatically vested with the University. Present details of infrastructure and academic programmes in the University are detailed below;

Land Area & Built up Space

	Type of Area	Area in sq.m
<ul style="list-style-type: none"> • Total Land Area : 338.52 Acres 	Non Residential Area	
	a) Academic	14034.95 sq.m
	b) Workshop	4605.35 sq.m
	c) Administrative	1942.95 sq.m
	d) Student Amenities	4848.15 sq.m
<ul style="list-style-type: none"> • Built up Area : 	Total	25341.40 sq.m
	Residential Area	
	a) Hostel	26452.34 sq.m
	b) Residences	21971.75 sq.m

73855.49 sq.m

Details of Built up Area:

c) Guest House	503.30 sq.m
Total	48424.09 sq.m
Grant Total	73855.49 sq.m

Present Academic Programmes

(1). Under Graduate Programmes

Sl. No.	Name of Programme	Current Intake	Year of Starting
1	B.Tech. (Civil Engineering)	60	1962
2	B.Tech. (Electrical Engineering)	60	1962
3	B.Tech. (Mechanical Engineering)	60	1962
4	B.Tech. (Electronics & Communication Engineering)	75	1973
5	B.Tech. (Computer Science & Engineering)	75	1984

(2). Post Graduate Programmes

Sl. No.	Name of Programme	Current Intake	Year of Starting
1	M.Tech. (Hill Area Development Engineering)	18	1984
2	M.Tech. (Environmental Engineering)	18	2001
3	M.Tech. (Power Electronics & Drives)	18	2001
4	M.Tech. (Computer Integrated Manufacturing)	18	2001
5	M.Tech. (Digital Systems)	18	2003
6	M.Tech. (Computer Science & Engineering)	18	2008

7	M.Tech. (Siesmic Design & Earthquake Engineering)	18	2011
8	M.Tech. (Structure Engineering)	18	2011
9	M.Tech. (Communication Engineering)	18	2012
10	M.Tech. (Information Technology)	18	2012
11	Master of Computer Application	60	1987
12	Master of Business Administration	60	2001

(3). Ph.D. Programme

Regular Ph.D. in all Engineering Disciplines including Applied Sciences and Humanities, 8 seats under Quality Improvement Programme of AICTE (CE:2 + EE:2 + ME:2 + EC:2) and 10 seats of Ph.D. under TEQIP – II (2 seats in each Engineering Department)

Existing Facilities of the University

a. Computing Environment and Communication Infrastructure

- (i) Centralized computing facilities (IT Resource Center) with 24X7 availability to students, faculty and staff members for their learning, classroom teaching and research needs. 8 Server (web, proxy, mail, Data-base, Linux & Oracle etc.) with 200 working points)
- (ii) 1 Gbps Campus Wide Network connecting all Departments/Labs/Admin Block/Hostels/Faculty Residences (more than 1600 Access points)
- (iii) 300 Mbps (1.1) leased-line Internet connectivity of with additional 10 Mbps Broadband backup.
- (iv) Centralized availability or Research/Design/training software in three design labs (Three clusters; each with 15 workstations & one server)

b. Central Library (Fully Automated)

1.	Number of books	1,24,465
2.	Number of titles	22,330
3.	Bound National & International	10,160
4.	National & International Journal (online IEEE/IEE/ASME/ASCE through INDEST	More than 220
5.	Total area of the library (Carpet)	428.94
6.	Seating capacity	350

7.	Reading space	178.37sqm
8.	Library staff	18

c. **Support Facilities**

(i) **Sports & Games facilities**

- **Indoor Sports:** Table Tennis, Badminton, Carrom, Chess
- **Outdoor Sports:** Hockey, Football, Cricket, Volley Ball, Basket ball, Lawn Tennis
- **Gymnasium:** Equipped with modern facilities for both Girls and Boys (6 Stations in Boys Gym and 3 Stations in Girls Gym)

(ii) **Health Centre**

- A well developed dispensary & physiotherapy Centre
- Two MBBS and one Homeopathic Doctor
- One Dresser, one Compounder
- One physiotherapist
- Two Nurses

(iii) **Transport Services (for 135 passengers)**

- Two Buses
- One Minibus (TATA Winger-AC)
- One Ambulance
- Two staff cars

(iv) **Fully Air-Conditioned Guest House:**

- 6 rooms and one Dining Hall with adequate parking space

(v) **Multipurpose Hall**

- (800 seats), utilized for examination, conferences, cultural activities, indoor games & exhibitions, and social activities etc.

(vi) **Residential accommodations**

- **For staff (teaching/non-teaching)**

Type V Residences	01
Type IV Residences	58
Type III Residences	32
Type II Residences	52
Type I Residences	67

Total	210
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- **Hostels (boys): 6 Hostels for boys**

Hostels	capacity
(i) Raman Bhawan	260
(ii) Subhash Bhawan	240
(iii) Vishveshwaraya Bhawan	200
(iv) Tagore Bhawan	200
(v) Ambedkar Bhawan (under construction)	200
Total	1100

- **Hostels (Girls)3 Hostels for girl**

Hostels	Capacity
(i) Saraswati Bhawan	200
(ii) Sarojani Bhawan	70
(iii) Kalpna Chawala Bhawan	100
Total	370

(vii) Malaviya Shiksha Niketan

- A school in campus (upto 5th standard) for kids of Staff and Faculty

(viii) Security for faculty/Staff/ Hostellers

- College has a full-fledged security system covered with 20 CCTV Cameras under the control of Officer-in-charge

(ix) Post Office

- Post office in the college campus

(x) Canteens

- Total Three canteens including one Fully Air-conditioned canteen

(xi) Bank

- State Bank of India & Two ATMs (SBI & PNB)

(xii) 650KVA Stand by power Generators

- For twenty four hours power supply backup

(xiii) 4 Tube wells & 2 Over Head Tans

(xiv) 11KV,650 KVA Electrical Sub-station

(xv) 150 seats Hi-Tech Seminar Hall

5. Proposed Degree Programmes in the University:

University proposes to start various new undergraduate and post graduate programmes along with capacity enhancement in phased manner. The details of new programmes and capacity enhancement of existing programmes is given at Annexure-1. Here sufficient stress is given for running full time Ph.D. programme in different departments so that the University can become the premier centre of creation for technical knowhow. The Ph.D. scholars are intended to be admitted in the form of Research cum Teaching Fellow so that they also contribute in the ongoing teaching activity of the University while pursuing their Ph.D. It is proposed that these Ph.D. fellows should be give scholarship @Rs.16000/- per month for three years and contingency grant of Rs.10000/- per year and the same has been included in the non-plan budgetary requirements given in Annexure-1.

The list of different new programmes proposed to be started in different academic session and the increase in intake of existing programmes is given below for reference.

Sl. No.	Name of the Department	New Programme	Programme for increase in intake
1	Civil Engineering	B.Tech.(Environmental Engg.)	B.Tech. (Civil Engg.) Ph.D.
2	Mechanical Engineering	M. Tech. (Industrial Management Engg.)	B.Tech. (Mech. Engg.) Ph.D.
3	Electrical Engineering		B.Tech.(Electrical Engg.) Ph.D.
4	Electronics & Communication Engineering	M. Tech (Micro –Electronics & VLSI Design)	B.Tech. (Electronics & Comm.) Ph.D.
5	Computer Science & Engg	M. Tech (Cyber Security)	B.Tech. (Comp. Sc. & Engg.) Ph.D.
6	Chemical Engg. & Sugar Technology	B.Tech. (Chemical Engg. & Sugar Technology)	
7	Centre of Management Studies	BBA	
8	Architecture	B.Arch. M.Arch., Ph.D.	
9	Applied Physics	M.Sc. Applied Physics- <i>Integrated</i>	Ph.D.
10	Applied Mathematics	M.Sc. Applied Mathematics – <i>Integrated</i>	Ph.D.
11	Applied Chemistry	M.Sc. Applied Chemistry – <i>Integrated</i>	Ph.D.

12	Humanities & Social Science	M.Sc. Journalism & Mass Communication- <i>Integrated</i>	
13	Agriculture Engineering Department	B.Tech. (Agriculture Engg.)	
14	Food Technology Department	B.Tech. (Food Technology)	
15	Bio Technology Department	B.Tech. (Bio Technology)	
16	Pharmacy	B.Pharm.	
17	Hotel Management & Catering Technology	B.H.M.C.T.	
18	Fashion Technology	B.F.T.D.	

6. Infrastructure and Human Resource Requirement

The available building infrastructure in the University is not sufficient to meet the requirements of the presently running courses. Further, due to reconstitution of MMM Engg. College into the University, there is critical requirement of strengthening the existing facilities, human resource and building infrastructure. Also, in view of the proposed five year road map for the development of University, there shall be requirement of building infrastructure along with teachers, officers and staff in phased manner.

The details of infrastructure requirement for meeting the present requirements along with expansion requirements is given in Annexures – 3 & 4 under following heads with the expenditure of Rs. 91146.95 Lacs and is proposed to be from plan grant to the University. The proposal for starting of new courses and increasing intake of existing courses is subject to creation of sufficient infrastructure in time.

- i. Main Buildings, Residences and Developments Works
- ii. Requirement for Each Department for 120 students Intake
- iii. Requirement for Each Department for 60 students Intake
- iv. Lecture Hall Complex
- v. Equipments for different new laboratories and enhancement due to increase in intake

The detail of human resource requirement for reconstitution / upgradation of MMM Engg. College into University and starting new courses/increase in intake of existing courses is worked out in detail and given in Annexures-2 & 5. The year wise detail of requirements of officers, teachers and staff is given herein and is proposed to be met from the non-plan grant for the University.

SUMMARY SHEET

Sl. No.	Session	Student population as per Intake (Annexure-01)	Non-Plan Expenditure for which assistance is required from state Gov.(in Rs. Lacs) *			Plan Expenditure for which assistance is required from state Gov.										Total (in Rs. Lacs)
			Employ salary and operating cost (Annexure-02)	Research fellowship	Computer Maintenance, Soft wares&Library	Building ** (in Rs. Lacs) (Annexure-03)							Lab Equipments*** (in Rs. Lacs) (Annexure-04)		Computer & Soft wares (in Rs. Lacs)	
						New Departments (09)	Department With Increase Intake(05)	Department With New Courses(05)	Lecture Hall Complex	Main Building, Residences & development Works	Cent age Charges, Contingent &Labourcess	No Of New Labs	Equipments Cost (35 Lacs/Labs)			
1.	2014-2015															
2.	2015-2016	2340	1636.03	64.64	65.00	2717.55	2082.00	1509.75	372.30	16992.93	3669.55	17	595	150.00	29854.75	
3.	2016-2017	3014	2418.17	133.32	71.00	2264.63	1735.00	1258.13	310.25	14160.78	3057.92	26	910	180.00	26499.20	
4.	2017-2018	3852	3008.15	206.04	75.00	1811.70	1388.00	1006.50	248.20	11328.62	2446.39	34	1190	200.00	22908.60	
5.	2018-2019	4724	4084.36	214.12	81.00	1358.77	1041.00	754.87	186.15	8496.47	1834.78	43	1505	230.00	19786.52	
6.	2019-2020	5296	5915.99	218.16	87.00	905.85	694.00	503.25	124.10	5664.31	1223.20	51	1785	260.00	17380.86	
Total			17062.70	836.28	379.00	9058.5	6940.00	5032.50	1241.00	56643.11	12231.84		5985	1020.00	116429.93	
Expenditure in session 2014-2015 (Annexure-5)															2871.06	
Grand Total															119300.99	

* Financial assistance requested above is the net required from state Govt. excluding the fees received in University. These details have been estimated considering the receipts from tuition fee to be used under Non- plan expenditure.

**Building expenditure calculated session wise as 2014-2015=30%, 2015-2016=25%, 2016-2017=20%, 2017-2018=15%, 2018-2019=10%

*** Lab equipments expenditure calculated sessionwise as 2014-2015=10%, 2015-2016=15%, 2016-2017=20%, 2017-2018=25%, 2018-2019=30%

M.M.M. University of Technology, Gorakhpur

Detail of Faculty & Student Intake

Annexure-1

Sl. No	Name of Departments	Name of Courses	UG/PG/Integrated / Ph.D	Present Intake	Total No. of students due to proposed new course/increase in intake										
					2014-15	2015-16		2016-17		2017-18		2018-19		2019-20	
						P	N	P	N	P	N	P	N	P	N
1	Civil Engineering	B.Tech(CE)	UG	60	240	240	-	240		240	-	240	60	300	60
		B.Tech(Env.)	UG		-	-	-	60	60	60	120	60	180	60	
		M.Tech	PG	72	144	144	-	144	-	144	-	144	-	144	-
		Ph.D.	Ph.D.		-	-	6	6	6	12	6	18	-	18	-
2	Mech. Engineering	B.Tech	UG	60	240	240	-	240	-	240	60	300	60	360	60
		M.Tech	PG	36	72	72	-	72	18	90	18	108	-	108	-
		Ph.D.	Ph.D.		-	-	6	6	6	12	6	18	-	18	-
3	Electrical Engineering	B.Tech	UG	60	240	240	-	240	60	300	60	360	60	420	60
		M.Tech	PG	36	72	72	-	72	18	90	18	108	-	108	-
		Ph.D.	Ph.D.		-	-	6	6	6	12	6	18	-	18	-
4	Electronics & Comm. Engineering	B.Tech	UG	75	300	300	45	345	45	390	45	435	45	480	
		M.Tech	PG	36	72	72	18	90	18	108	-	108	-	108	-
		Ph.D.	Ph.D.		-	-	6	6	6	12	6	18	-	18	-
5	Computer Science & Engineering	B.Tech	UG	75	300	300	45	345	45	390	45	435	45	480	-
		M.Tech	PG	36	72	72	18	90	18	108	-	108	-	108	-
		Ph.D.	Ph.D.		-	-	6	6	6	12	6	18	-	18	-
6	Chemical Engineering & Sugar Technology	B.Tech	UG		-	-	60	60	60	120	60	180	60	240	-
		M.Tech	PG		-	-	-	-	-	-	18	18	18	36	-
7	Computer Applications	MCA	PG	60	180	180	-	180	-	180	-	180	-	180	
8	Centre for Management Studies	MBA	PG	60	120	120	-	120	-	120	-	120	-	120	-
		BBA	UG		-	-	-	-	60	60	60	120	60	180	-
09	Department of Architecture	B.Tech	UG		-	-	40	40	40	80	40	120	40	160	-
		M.Tech	PG		-	-	-	-	18	18	18	36	-	36	-
10	Applied Mathematics	M.Sc.	Integrated		-	-	-	-	30	30	30	60	30	90	
		Ph.D.	Ph.D.		-	-	-	-	2	2	2	4	2	6	-
11	Applied Physics	M.Sc.	Integrated		-	-	30	30	30	60	30	90	30	120	30
		Ph.D.	Ph.D.		-	-	2	2	2	4	2	6	-	6	-
12	Applied Chemistry	M.Sc.	Integrated		-	-	-	-	-	-	30	30	30	60	30
		Ph.D.	Ph.D.		-	-	-	-	-	-	2	2	2	4	2
13	Humanities & Social Sciences	-	-		-	-	-	-	-	-	-	-	-	-	-
	Journalism & Mass Communication	M.Sc.	Integrated		-	-	-	-	-	-	30	30	30	60	30
14	Department of Pharmacy	B.Tech	UG		-	-	-	-	60	60	60	120	60	180	60
15	Agricultural Engineering.	B.Tech	UG		-	-	-	-	60	60	60	120	60	180	60
16	Food Technology	B.Tech	UG		-	-	-	-	-	-	30	30	30	60	30
17	Bio Technology	B.Tech	UG		-	-	-	-	-	-	30	30	30	60	30
18	BHMCT	B.Tech	UG		-	-	-	-	-	-	-	-	30	30	30
19	BFTD	M.Sc.	PG		-	-	-	-	-	-	-	-	30	30	30
						2052	288	2340	674	3014	838	3852	872	4724	572
					Total=2052	Total=2340		Total=3014		Total=3852		Total=4724		Total=5296	
						Professor =17		Professor =22		Professor =29		Professor =35		Professor =39	
						Assoc. Prof. =35		Assoc. Prof. =45		Assoc. Prof. =57		Assoc. Prof. =70		Assoc. Prof. =78	
						Asst. Prof. =104		Asst. Prof. =134		Asst. Prof. =171		Asst. Prof. =210		Asst. Prof. =236	
						Total = 156		Total = 201		Total = 257		Total = 315		Total =353	
P - Present Students															
N - New Students (Intake)															
Teacher - Student ratio 1:15															

Details of New Courses/Increased Intake

Starting Session 2015-2016

Sl. No.	Name of Departments	Name of Courses	UG/PG/ Integrated/Ph.D	New Intake	Increase in Intake of existing Program
1.	Civil Engineering	Ph. D	Ph. D	6	
2.	Mech. Engineering	Ph. D	Ph. D	6	
3.	Electrical Engineering	Ph. D	Ph. D	6	
4.	Electronics & Comm. Engineering	B. Tech	UG		45
		M. Tech (Micro – Electronics&VLSI Design)	PG	18	
		Ph.D	Ph.D	6	
	Computer Sc. & Engineering	B. Tech	UG		45
		M. Tech (Cyber Security)	PG	18	
		Ph. D	Ph.D	6	
6.	Chemical Engineering & Sugar Technology	B. Tech	UG	60	
7.	Department of Architecture	B. Arch.	UG	40	
8.	Applied Sciences Departments				
(i)	Applied Physics:	M.Sc	Integrated	30	
		Ph. D	Ph. D	02	

Details of New Courses/Increased Intake
Starting Session 2016-2017

Sl. No.	Name of Departments	Name of Course	UG/PG/ Integrated/Ph.D	New Intake	Increase in Intake of existing Program
1.	Civil Engineering	B.Tech(Env.)	UG	60	
2.	Mech. Engineering	M. Tech (Industrial Engineering and Management)	PG	18	
3.	Electrical Engineering	B. Tech	UG		60
		M. Tech (Power Systems)	PG	18	
4.	Centre for Management Studies	BBA	UG	40	
5.	Department of Architecture	M. Tech	PG	18	
6.	Applied Sciences Departments				
(i)	Applied Mathematics	M.Sc	Integrated	30	
		Ph. D	Ph. D	2	
7.	Department of Pharmacy	B. Tech	UG	60	
8.	Agricultural Engineering.	B. Tech	UG	60	

Details of New Courses/Increased Intake
Starting Session 2017-2018

Sl. No.	Name of Departments	Name of Courses	UG/PG/ Integrated/Ph.D	New Intake	Increase in Intake of existing Program
1.	Mech. Engineering	B. Tech	UG		60
2.	Chemical Engineering & Sugar Technology	M. Tech	PG	18	
	Applied Sciences Departments				
(i)	Applied Chemistry	M.Sc		30	
		Ph. D	Ph. D	2	
4.	Humanities & Social Sciences				
(i)	Journalism & Mass Communication	M.Sc	Integrated	30	
5.	Food Technology	B. Tech	UG	30	
6.	Bio Technology	B. Tech	UG	30	

Details of New Courses/Increased Intake
Starting Session 2018-2019

Sl. No.	Name of Departments	Name of Courses	UG/PG/ Integrated/Ph.D	New Intake	Increase in Intake of existing Program
1.	Civil Engineering	B. Tech (Civil)	UG		60
2.	BHMCT	B. Tech	UG	30	
3.	BFTD	M.Sc.	Integrated	30	

Faculty Requirements

Session	Total No. Of Students	Faculty Requirement	
2015-2016	2380	Professor	17
		Assoc. Professor	35
		Assist. Professor	104
		Total=156	
2016-2017	3074	Professor	22
		Assoc. Professor	45
		Assist. Professor	134
		Total=201	
2017-2018	3932	Professor	29
		Assoc. Professor	57
		Assist. Professor	171
		Total=257	
2018-2019	4754	Professor	35
		Assoc. Professor	70
		Assist. Professor	210
		Total=315	
2019-2020	5296	Professor	39
		Assoc. Professor	78
		Assist. Professor	236
		Total=353	

Total Expenditure for Main Buildings, New Departments and Lecture Hall Complex

(These estimates are given by U.P. RAJKIYA NIRMAN NIGAM LTD.)

Name of Work	No. of Units	Cost per unit (in Rs. Lacs)	Cost in (Rs. Lacs) Approx
New Department for 60 students intake	09	1006.54	9058.50
Requirement for Each Department for 120 students Intake	05	1388	6940.00
Department with new courses	05	1066.54	5032.50
Lecture Hall Complex 10 Nos. 150 Students Capacity 02 Nos. 120 Students Capacity	01	1241.00	1241.00
Main Building, Residence & Development Work Furniture	01	47202.59	47202.59
	20% of Rs. 47202.59		9440.518
	Total		56643.108
Above Total			78915.108
12.5% Centage charge,2% Contingent Grant & 1% Labour cess		15.5% of Rs. 78915.108	12231.844
Grand Total			91146.95

(A) Main Buildings, Residences and Developments Works*(These estimates are given by U.P. RAJKIYA NIRMAN NIGAM LTD.)*

Sr. No.	Name of Work	No. of Units	Plinth Area in (m ²) –Approx.	Cost in (Lacs) Approx
(a) Main Building				
1.	Central Administrative Office	01	19000.00	10325.000
2.	Examination Center	01		
3.	Examination Controller			
4.	Library Building	01		
5.	Placement Centre	01		
6.	Alumni Centre	01		
7.	QIP Centre (i.e. contemning education centre)	01		
8.	Meeting Hall	01		
(b) Residences				
9.	Vice-Chancellor Residence	01	364.32	85.320
10.	Type-IV	200	38908.50	7355.00
11.	Type-III	50	4924.50	887.80
12.	Type-II	30	2077.00	374.50
13.	Hostel for Boys 3200 Boys more (1600 Triple +1600 Single)	08	32500	1228.500
14.	Hostel for Girls 800 Girls (400 Triple +400 Single)	02	8200	310.00
15.	Guest House (20 Suits)	01	3858.00	1252.700
16.	P.G. Hostel for 100 Capacity	03	32500.00	4892.500
17.	Visitor Hostel for Short Courses – 50 Capacity	01	6287.25	2357.790
18.	Play Grounds	01	L.S.	25.000
19.	Students Activity Centre	01	1360.00	562.850
20.	Auditorium for 2000 Capacity	01	5800.00	2262.300
21.	Health Centre 50 Bedded	01	1781.50	736.100
22.	NCC/NSS Office	01	287.60	304.970
23.	Stadium & Swimming Pool	01	3000.00	836.500
24.	Community Centre Shoprite	01	1260.00	416.350
25.	Bank Building, Post Office, Railway Reservation Counter etc.	01	2465.00	825.00
26.	Open Air Theater 01	01	1800.00	15.850
(c) Development Works				
27.	Renovation of Existing Building	L.S.	L.S.	1750.60
28.	Boundary Wall of the Campus	4625	4625	256.00
29.	Internal Road, Water Supply & O.H.T.	14000	14000	7000.00
30.	Sewerage System with STP			1180.00
31.	External Lighting on The Road, earthling etc.	500	500	186.96
32.	Electric Sub Station	01	01 No.	596.85
33.	Air Conditioning etc.	01	L.S.	1178.15
<i>(i)20% furniture etc., (ii) 2% Contingent Grant, (iii) (-) 5% due to Nigam working , (iv) (+) 125% Centage charge, (v) 01% Labour cess</i>			Total	47202.59
			20% furniture etc.	9440.52
			Grand Total	56643.11

(B.1) Requirement for Each Department for 120 students Intake

(These estimates are given by U.P. RAJKIYA NIRMAN NIGAM LTD.)

Sl. No.	Name of Work	No. of Units	Plinth Area in Sqm. in (Approx)	Rate in Rs. Per Sqm. in (Approx)	Cost in (Lacs) Approx
1.	HOD office + Office + Bath Room	01	75.00	27,500.00	20.265
2.	Class Room 150 Capacity	04	235.00	22,500.00	211.500
3.	Class Room 75 Capacity	04	125.00	22,500.00	112.500
4.	Tutorial Room 40 Capacity	08	65.00	22,500.00	117.000
5.	P.G. Class Room 30 capacity	08	55.00	22,500	99.000
6.	Departmental Labs	09	135	22,500.00	273.375
7.	Departmental Library	01	135.00	22,500.00	30.375
8.	Faculty Cabin	30	18.00	23,500.00	126.900
9.	Common Room (Girl)	01	115.00	24,500.00	28.175
10.	Common Room (Boys)	01	115.00	24,500.00	28.175
11.	Meeting Room (40 Person) Attached with HOD Office + Bathroom	01	80.00	26,500.00	21.20
12.	Seminar Room 150 Capacity including Pantry Room	01	235.00	28,800.00	67.680
13.	Vehicle Parking	01	L.S.	L.S	20.00
				Total	1156.505
14.	Furniture Etc.	-	20% of Rs. 1156.505		231.301
				Grand Total	1387.806
					Say Rs. 1388.00 Lacs.

(B.2) Requirement for Each Department for 60 students Intake

(These estimates are given by U.P. RAJKIYA NIRMAN NIGAM LTD.)

Sr. No.	Name of Work	No. of Units	Plinth Area in Sqm. in (Approx)	Rate in Rs. Per Sqm. in (Approx)	Cost in (Lacs) Approx
1.	HOD office + Office + Bath Room	01	75.00	27,500.00	20.265
2.	Class Room 150 Capacity	01	235.00	22,500.00	52.875
3.	Class Room 75 Capacity	04	125.00	22,500.00	112.500
4.	Tutorial Room 40 Capacity	04	65.00	22,500.00	58.500
5.	P.G. Class Room 30 capacity	04	55.00	22,500.00	49.500
6.	Departmental Labs	09	135.00	22,500.00	273.375
7.	Departmental Library	01	135.00	22,500.00	30.375
8.	Faculty Cabin	30	18.00	23,500.00	84.60
9.	Common Room (Girl)	01	115.00	24,500.00	28.175
10.	Common Room (Boys)	01	115.00	24,500.00	28.175
11.	Meeting Room (30 Person) Attached with HOD Office + Bathroom	01	65.00	26,500.00	17.225
12.	Seminar Room 150 Capacity including Pantry Room	01	235.00	28,800.00	67.680
13.	Vehicle Parking	01	L.S.	L.S	15.00
				Total	838.605
14.	Furniture Etc.	-	20% of Rs. 838.605		167.721
				Grand Total	1387.806
					Say Rs. 1006.50 Lacs.

(B.3) Lecture Hall Complex

(These estimates are given by U.P. RAJKIYA NIRMAN NIGAM LTD.)

10 Nos. 150 Students Capacity

02 Nos. 120 Students Capacity

Sl. No.	Name of Work	No. of Units	Plinth Area in Sqm. in (Approx)	Rate in Rs. Per Sqm. in (Approx)	Cost in (Lacs) Approx
1.	Lecturer Room	10	235.00	28,800.00	676.800
2.	Lecturer Room	02	180.00	28,800.00	103.680
3.	Common Toilet Block (She)	01	35.00	28,800.00	10.080
4.	Common Toilet Block (he)	01	35.00	28,800.00	10.080
				Total	800.64
5.	Modern Class Room Amenities	L.S.	L.S.	20% of Rs. 800.64	160.128
6.	Furniture Lift A/C etc.			35% of Rs. 800.64	280.224
7.				Grand Total1	1240.992
8.				Say Rs. 1241.00 Lacs	

- (i) (-) 0.5% due to working of Nigam
- (ii) 12.50% Centage Charge
- (iii) 02% Contingencies
- (iv) 01% Labour cess

Expenditure On Laboratory Equipments For New Courses / Increase in Intake

Sl. No.	Departments	Nos.	No. Of Labs (9 In Each Department)	Expenditure @ Rs. 35 Lacs of Each Lab
1.	New Departments	09	81	2835.00
2.	Departments With Increase Intake	05	45	1575.00
3.	Departments With New Courses	05	45	1575.00
	Total	19	171	5985.00

Additional Human Resource Requirement**Non-Teaching Positions**

Sl.No.	Post	Scale	No.	Remarks
1.	Staff Officer to Vice Chancellor		01	
2.	Law Officer		01	
3.	Deputy Registrar		02	For Academic , General Administration, Horticulture, Security, Purchases and other miscellaneous functions
4.	Technical Assistants (SLT/JLT)		12	For different Academic Departments
5.	Laboratory Instructors (Mach Gr A/B)		15	For Laboratories in Different Academic Departments
6.	Computer Operators cum Office Assistants		15	For Academic Department and Administrative sections

Teaching Positions

Sl.No.	Post	Scale	No.	Remarks
1.	Professor	Rs.37400-67000/- , AGP-Rs.10000/-	21	For New Departments and increased Intake
2.	Assoc. Professor	Rs.37400-67000/- , AGP-Rs.9000/-	47	For New Departments and increased Intake
3.	Assistant Professor	Rs.15600-39000/- , AGP-Rs.7000/-	171	For New Departments and increased Intake