

Office of the Dean (R&D)

Date: 04-12-2018

The Hon'ble Vice-Chancellor GLA University, Mathura

The Research Advisory Board under the Chairmanship of Pro-Vice Chancellor is being constituted. The following persons are the member of RAB:

- 1. Prof. Prof. A. M. Agrawal, Pro-Vice Chancellor, Chairman
- 2. Dr. A. K. Rawat, Director, Animal Production, New Delhi, External Member
- 3. Dr. Manmohan Singh Chauhan, Director, ICAR-CIRG, Mathura, External Member
- 4. Prof. S. G. Ghosh, Professor CTP & Director (Research), JMI, New Delhi
- 5. Dr. Sushant Kumar Srivastava, Professor, Department of Pharmaceutical Engineering and Technology, IIT, BHU, Varanasi.
- 6. Prof. Govind Swaroop Pathak, Professor, Department of Management Studies, IIT (ISM), Dhanbad, Jharkhand.
- 7. Dr. Mukul Shukla, Professor, Mechanical Engineering Department, MNNIT, Allahabad, Prayagraj-211004, UP.
- 8. Prof. Yash Pal, Department of Electrical Engineering, NIT, Kurukshetra, Haryana.
- 9. Prof. S. V. Singh, HoD, Department of Biotechnology, GLA University

10. Prof. Anirudh Pradhan, Dean (R&D), GLA University, Member Secretary

Kindly consider and approve.

Approved Bianha

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Prof. Anirudh Pradhan Dean (R&D)



Office of the Dean Research

Notification

Ref. No.: - D.O./135(B)/RAB/2018/001

Dated: 05-12-2018

As approved by Hon'ble Vice-Chancellor the **Research advisory board** for three years is **constituted** as follows in accordance with the UGC regulation for promoting the research environment in higher educational institutions. The **composition of RAB** is as follows:

S.NO.	Name	Designation	Position in RAB
1	Prof. A.M. Agrawal	Director & Pro-Vice-Chancellor	Chairman
2	Dr. A.K. Rawat	Director, Animal Production, New Delhi	Member
3	Dr. Manmohan Singh Chauhan	Director, ICAR-CIRG, Mathura	Member
4	Prof. S.G. Ghosh	Professor CTP & Director (Research), JMI, New Delhi	Member
5	Dr. Sushant Kumar Srivastava	Professor, Deptt. of Pharmaceutical Engineering & Technology, IIT, BHU, Varanasi	Member
6	Prof. Govind Swaroop Pathak	Professor, Deptt. of Management Studies, IIT(ISM), Dhanbad, Iharkhand	Member
7	Dr. Mukul Shukla	Professor, Deptt. of Mechanical Engineering, MNNIT, Allahabad, Prayagraj-211004,UP	Member
8	Prof. Yash Pal	Deptt. of Electrical Engineering, NIT Kurukshetra, Haryana	Member
9	Prof. Shoor Vir Singh	HoD, Deptt. of Biotechnology, GLA University, Mathura	Member
10	Prof. Anirudh Pradhan	Dean R&D, GLA University, Mathura	Member Secretary

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(Prof. Anirudh Pradhan) Dean R&D Dean (Reaserch & Development) GLA University, Mathura-281406

Copy to:

- 1. Hon'ble Vice Chancellor for kind information
- 2. Pro-Vice-Chancellor for kind information
- 3. Dean Academic Affairs for information
- 4. Director IQAC for information
- 5. Registrar for information
- 6. Heads of all departments for information
- 7. All concerned members



AGENDA OF THE 1st MEETING OF RESEARCH ADVISORY BOARD TO BE HELD ON 19.01.2019 AT 11:00 AM IN THE OFFICE OF PRO-VICE CHANCELLOR.

AGENDA

Item No. 1.01: To consider and approve the result of PhD entrance examination held on 12th Jan 2019 for the session 2018-19 (Even Semester).

Item No. 1.02: To report the progress of the seed money projects which were granted in various departments of the University for the session 2018-19.

Item No. 1.03: To report the progress report of the PhD scholars of the University.

Item No. 1.04: Any other item with the permission of the Chair.

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(Prof. Anirudh Pradhan) Dean, Research & Development Dean (LA University, Mathura, Sophan Content GLA University, Mathura, Sophan Content



AGENDA NOTE

Item No. 1.01: To consider and approve the result of PhD entrance examination held on 12th Jan 2019 for the session 2018-19 (Even Semester).

To consider & approve the list of research scholars selected through PhD entrance examination held on 12.01.2019 for the session 2018-19 (Even Semester) (Annexure - I).

Item No. 1.02: To report the progress of the seed money projects which were granted in various departments of the University for the session 2018-19.

To consider & approve the progress of seed money projects granted to the various departments of the university for the session 2018-19 (Annexure-II).

Item No.1.03: To report the progress report of the PhD scholars of the University.

To report the status of research scholars from all the departments who gave their presentations in the presence of departmental research degree committee (DRDC) for the session 2018-19 (Odd Semester).

Item No. 1.04: Any other item with the permission of the Chair.

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(Prof. Anirudh Pradhan) Dean, Research & Development Dean (Reast & Development GLA University, Mathurd, 200



Minutes of the 1st meeting of the **Research Advisory Board** held on 19.01.2019 at 11:00 A.M. in the Office of the Pro-Vice-Chancellor .

The following members were present:

- 1. Prof. A.M. Agrawal Pro-Vice Chancellor
- 2. Prof. Anoop Kumar Gupta Dean Academic-Affairs
- 3. Prof. Kamal Sharma Asso. Dean (R&D)
- 4. Dr. Sushant Kumar Srivastava Professor, Department of Pharmaceutical Engineering and Technology, IIT, BHU, Varanasi.
- 5. Prof. Anirudh Pradhan Dean (R&D), Member Secretary

After this, the agenda of the meeting was taken up for discussion.

Item No. 1.01: To consider and approve the result of PhD entrance examination held on 12th Jan 2019 for the session 2018-19 (Even Semester).

Implemented & No action pending.

Item No. 1.02: To report the progress of the seed money projects which were granted in various departments of the University for the session 2018-19.

The Board deliberated on the work carried out on the seed money projects granted by the University for the last academic session 2018-19. The Board appreciated the work done by the Principal Investigators of the University. The list of seed money projects granted in the various departments of the University were discussed by the members and the members were satisfied with the progress report.

Item No. 1.03: To report the progress report of the PhD scholars of the University.

The Board deliberated on the research work carried out by the research scholars of various departments of the University for the academic session 2018-19. The Board appreciated the progress of the research scholars.

Item No. 1.04: Any other item with the permission of the Chair.

There was no other item for discussion.

The meeting ended with vote of thanks to the Chair.

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(Prof. Anirudh Pradhan) Dean, Research & Development

Dean (Reaserch & Development) GLA University, Mathura-281406

Approved

(Prof. D.S. Chauhan) AUHAN Vice-Chancellor

Annexure - I



Date: 15-01-2019

On the basis of entrance examination and interview held on January 12, 2019 the following candidates have been selected for admission to Ph. D. programme of GLA University, Mathura. Admission is subject to fulfillment of minimum eligible criteria and publication of results. The selected candidates are required to take admission latest by January 21, 2019. After taking admission the candidates are required to report to the respective departments to complete the admission formalities.

S. No.	Name of Candidate	Mode	Research Discipline/Department
1	Rajesh Kumar Singh	Full Time	Faculty of Education
2	Chandrika Chahar	Full Time	Faculty of Education
3	Ankit Mishra	Full Time	Chemistry
4	Anjali Chaturvedi	Full Time	Chemistry
5	Sumit Kumar	Part Time	Chemistry
6	Dinesh Kumar	Part Time	Physics
7	Sulabh Singh	Part Time	Physics
8	Sheetal Rajput	Full Time	Microbiology
9	Jyotshana Singh	Part Time	Microbiology
10	Rathod Balaji Ulhas	Full Time	Biotechnology
11	Kusuma Sai Davuluri	Full Time	Biotechnology
12	Dalveer Singh	Full Time	Biotechnology
13	Manish Kumar	Full Time	Biotechnology
14	Atul Kumar Sharma	Full Time	Biotechnology
15	Shalini Verma	Full Time	Biotechnology
16	Kaustubh	Full Time	Biotechnology
17	Sakshi Gautam	Full Time	Biotechnology
18	Neha Rathod	Full Time	Biotechnology
19	Sangam Yadav	Full Time	Biotechnology
20	Thakurendra Singh	Part Time	Electronics & Comm. Engineering
21	Manish Agarwal	Part Time	Electronics & Comm. Engineering
22	Ankita Chauhan	Part Time	Electronics & Comm Engineering
23	Neetu Agrawal	Part Time	Electronics & Comm Engineering
24	Kalyan Singh	Part Time	Mechanical Engineering
25	Saurbh Pachauri	Part Time	Mechanical Engineering
26	Ajit	Part time	Mechanical Engineering
27	Ankita Awasthi	Part Time	Mechanical Engineering
28	Adarsh Sharma	Part Time	Mechanical Engineering
29	Ravi Prakash	Part Time	Computer Engineering & Applications
30	Bhuvanesh Singh	Part Time	Computer Engineering & Applications
31	Preeti Pal	Part Time	Pharmaceutics
32	Divya Kaushik	Part Time	Pharmaceutics
33	Ritu Saini	Part Time	Pharmaceutics
34	Atul Sharma	Part Time	Pharmaceutics
35	Sumit Chhabra	Part Time	Pharmaceutical Chemistry
36	Pratibha Yadav	Part Time	Pharmaceutical Chemistry
37	Munish Pal	Full Time	Pharmaceutical Chemistry
38	Imteyaz Ahmad Khan	Full Time	English
39	Prachi Singh	Part Time	English
40	Payal Dubey	Full Time	Civil Engineering

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41	Himani Saini	Part Time	Management
42	Meenakshi	Part Time	Management
43	Chitra Jha	Part Time	Management
44	Pushpendra Singh	Part Time	Management
45	Rashmi Meena	Part Time	Management
46	Manohar Kumar	Part Time	Management
47	Anurag Gautam	Part Time	Electrical Engineering
48	Sreedip Ghosh	Part Time	Electrical Engineering

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Prof. Anirudh Pradhan Dean (R&D)

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Prof. A. M. Agrawal Pro-Vice Chancellor

Annexure - II



OFFICE OF THE DEAN- RESEARCH AND DEVELOPMENT

Date: 25 Oct 2018

Convener

Member Member

Member

MINUTES OF THE RESEARCH REVIEW COMMITTEE (FOR SEED GRANT) MEETING HELD

On 25 Oct 2018

1. The Research Review Committee meeting was held on under the Chairmanship of Pro-Vice-Chancellor. The committee consist of:

i.	Prof. Anirudh Pradhan	Dean (R&D)
ii.	Prof. CharulBhatnagar	Director IQAC
iii.	Prof. MeenakshiBajpai	HOD, IPR
iv.	Prof. Kamal Sharma	Assoc. Dean (R&D)

- 2. The Chairman welcomed the members of the committee and informed them about the agenda of the meeting. The Committee examined the proposals submitted by the faculty members of various departments of GLA University, Mathura for sanction of Seed Grant.
- 3. Based on presentation novelty and components/apparatus prescribed in the proposal the committee recommended 2 proposals for Seed Grant.

S.NO.	Name of Faculty	Name of Department	Title of Projects	Sanctioned Amount in RS.
1	Kundan Kumar Chaubey and Saurabh Gupta	Department of Biotechnology	Optimization of core components integrated into the indigenous ELISA kit for Mycobacterium avium subspecies par tuberculosis infection, safety, efficacy and performance of candidate	300000

2	Saurabh Gupta and Kundan Kumar Chaubey	Deaprtment of Biotechnology	Estimation of bio-load of Mycobacterium avium subspecies paratuberculosis in the milk and milk products in the Braj Region using microscopy	275000	
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Fund granted by the Research Review Committee appears to be ideal (Rs. 5,75,000)

4. The committee recommends the proposals of Seed Grant and request Vice chancellor for necessary approval.

Having examined all proposals, meeting was adjourned.

Committee Members:



Prof. Charul Bhatnagar Member

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(Prof. Anirudh Pradhan) Convener

eena ke h (Prof. Meenakshi Bajpai)

Member

Kemal SI (Prof. Kamal Sharma)

Member

Anaud Johan Agravel (Prof. AM Agrawal) Chairperson



AGENDA OF THE 2ND MEETING OF RESEARCH ADVISORY BOARD TO BE HELD ON 27.04.2019 AT 3:30 PM IN THE OFFICE OF PRO-VICE CHANCELLOR.

AGENDA

- Item No. 2.01: To confirm the Minutes of the 1st Meeting of the Research Advisory Board held on 19.01.2019.
- Item No. 2.02: Action taken on the decisions of the 1st Meeting of the Research Advisory Board.
- Item No. 2.03: To report progress of the conduction of IPR related workshops/seminars in various departments of the University.

Item No. 2.04: To report the progress of the conduction of workshops on "How to write a quality research paper and sponsored projects" in various departments of the University.

Item No. 2.05: To consider and recommend the seed money grant against the proposals submitted and scrutinized by Research Review Committee for the Session 2019-20.

Item No. 2.06: Any other item with the permission of the Chair.

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(Prof. Anirudh Pradhan) Dean, Research & Development Dean (Reaserch & Development GLA University, Mathura 281400



AGENDA NOTE

Item No. 2.01: To confirm the Minutes of the 1st Meeting of the Research Advisory Board held on 19.01.2019.

The Minutes of the 1st Meeting of the Research Advisory Board held on 19.01.2019 were circulated to the members of the Board for comments, if any, No comments were received. The Board is requested to confirm the Minutes of the 1st Meeting placed at **Annexure-I**.

Item No. 2.02: Action taken on the decisions of the 1st Meeting of the Research Advisory Board.

No action is pending.

Item No.2.03: To report progress of the conduction of IPR related workshops/seminars in various departments of the University.

The list of workshops/ seminars conducted by the various departments of the University are attached at **Annexure-II**.

Item No. 2.04: To report the progress of the conduction of workshops on "How to write a quality research paper and sponsored projects" in various departments of the University.

In order to increase the publications and projects various workshops were conducted in all the departments of the University. A list of the programme conducted as attached herewith in **Annexure-III** for consideration and approval of the Board.

Item No. 2.05: To consider and recommend the seed money grant against the proposals submitted and scrutinized by Research Review Committee for the Session 2019-20.

Proposals from all the departments of the university were called by the Office of Dean Research and subsequently scrutinized by research review committee (Annexure-IV). The Research Board is requested to consider and recommend the same to the Competent Authority for its approval. Item No. 2.06: Any other item with the permission of the Chair.

(Prof. Anirudh Pradhan)

Dean, Research & Development

Dean (Reaserch & Development) GI A University, Mathura-281/26



Minutes of the 2nd meeting of the Research Advisory Board held on 27.04.2019 at 3:30 P.M. in the Office of the Pro-Vice-Chancellor.

The following members were present:

- 1. Prof. A.M. Agrawal Pro-Vice Chancellor
- 2. Prof. Anoop Kumar Gupta Dean Academic-Affairs
- 3. Prof. Kamal Sharma Asso. Dean (R&D)
- 4. Prof. Yash Pal Department of Electrical Engineering, NIT, Kurukshetra, Haryana.
- 5. Prof. Anirudh Pradhan Dean (R&D), Member Secretary

After this, the agenda of the meeting was taken up for discussion.

Item No. 2.01: To confirm the Minutes of the 1st Meeting of the Research Advisory Board held on 19.01.2019.

The Minutes of the 1st Meeting of the Research Advisory Board held on 19.01.2019 were circulated to the members of the Board for comments, if any, No comments were received. The Minutes of the 1st Meeting were confirmed.

Item No. 2.02: Action taken on the decisions of the 1st Meeting of the Research Advisory Board.

No action is pending.

Item No. 2.03: To report progress of the conduction of IPR related workshops/seminars in various departments of the University.

The Board deliberated on the work carried out on the workshops/seminars organized by the various departments of the university. The list of workshops/seminars conducted in the various departments of the University were discussed by the members and the members were satisfied with the progress.

Item No. 2.04: To report the progress of the conduction of workshops on "How to write a quality research paper and sponsored projects" in various departments of the University.

The Board deliberated on the progress report for the conduction of workshop for the purpose to increase the quality research papers as well as sponsored projects.

The list of workshops conducted in the various departments of the University were discussed by the members and the members were satisfied with the progress.

Item No. 2.05: To consider and recommend the seed money grant against the proposals submitted and scrutinized by Research Review Committee for the Session 2019-20.

The Research Board appreciated and seen the process for seed money grant against the proposals submitted by the faculty members from the various departments of the university and recommend the same for the approval of competent authority.

Item No. 2.06: Any other item with the permission of the Chair.

There was no other item for discussion.

The meeting ended with vote of thanks to the Chair.

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(Prof. Anirudh Pradhan) Dean, Research & Development

Dean (Reaserch & Development) GLA University, Mathura-281406

Annexure - I



Research Advisory Board

Minutes of the 1st meeting of the Research Advisory Board held on 19.01.2019 at 11:00 A.M. in the Office of the Pro-Vice-Chancellor .

The following members were present:

- 1. Prof. A.M. Agrawal Pro-Vice Chancellor
- 2. Prof. Anoop Kumar Gupta Dean Academic-Affairs
- 3. Prof. Kamal Sharma Asso. Dean (R&D)
- Dr. Sushant Kumar Srivastava Professor, Department of Pharmaceutical Engineering and Technology, IIT, BHU, Varanasi.
- 5. Prof. Anirudh Pradhan Dean (R&D), Member Secretary

After this, the agenda of the meeting was taken up for discussion.

Item No. 1.01: To consider and approve the result of PhD entrance examination held on 12th Jan 2019 for the session 2018-19 (Even Semester).

Implemented & No action pending.

Item No. 1.02: To consider the progress report of the seed money projects granted in various departments of the University for the session 2018-19.

The Board deliberated on the work carried out on the seed money projects granted by the University for the last academic session 2018-19. The Board appreciated the work done by the Principal Investigators of the University.

The list of seed money projects granted in the various departments of the University were discussed by the members and the members were satisfied with the progress report.

Item No. 1.03: To consider and approve the progress report of the PhD scholars to be organized by Departmental research degree committee (DRDC).

The Board deliberated on the research work carried out by the research scholars of various departments of the University for the academic session 2018-19. The Board appreciated the progress of the research scholars.

Item No. 1.04: Any other item with the permission of the Chair.

There was no other item for discussion.

The meeting ended with vote of thanks to the Chair.

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(Prof. Anirudh Pradhan) Dean, Research & Development

Dean (Reaserch & Development) GLA University, Mathura-281406

Annexure - II

S.N.	Year	Name of the workshop/ seminar	Date	Department
1	2018-19	One day FDP on Intellectual Property Rights and Innovation	19/09/2018	Department of Electronics & Communication Engineering
2	2018-19	Guest Lecture on Intellectual Property Rights and Patent Filling	09/06/2019	Department of Electronics & Communication Engineering
3	2018-19	A view on management of IPR for academics	13/05/2019	Institute of Business Management
4	2018-19	How to Protect Your Intellectual Property with an NDA	10/02/2019	Institute of Business Management
5	2018-19	IPR-The Fundamentals of licensing through Academia- Industry Collaboration	24/11/2018	Institute of Business Management
6	2018-19	Current Challenges in Intellectual Property Rights and Biotechnology	19/10/2018	Department of Bio- Technology
7	2018-19	Role of Intellectual Property Rights in Biotechnology	09/03/2019	Department of Bio- Technology
8	2018-19	Role of IPR in Innovation Management for Academic- Industry Collaboration	14/03/2019	Department of Civil Engineering
9	2018-19	One day workshop on intellectual property and Patenting	06/04/2019	Department of Physics
10	2018-19	Know Your IPR	26/10/2018	Faculty of Education
11	2018-19	One day seminar on Intellectual Property Rights Involving Modern Management Methods	21/10/2018	Department of Electrical Engineering
12	2018-19	Two days FDP on interface of intellectual property rights in the pharmaceutical industry	16/10/2018- 17/10/2018	Institute of Pharmaceutical Research

Annexure - III

S.N.	Year	Name of the workshop/ seminar	Date	Department
1	2018-19	Workshop on Research Paper Writing	24/03/2019	Institute of Business Management
2	2018-19	Six Day FDP on "Advance Research Methodology"	22/04/2019 - 27/04/2019	Institute of Business Management

Annexure - IV



OFFICE OF THE DEAN- RESEARCH AND DEVELOPMENT

Date: 26 Jul 2019

Convener Member Member Member

MINUTES OF THE RESEARCH REVIEW COMMITTEE (FOR SEED GRANT) MEETING HELD

On 25-26 Jul 2019

 The Research Review Committee meeting was held on under the Chairman ship of Pro-Vice-Chancellor. The committee consist of:

:	Prof. Anirudh Pradhan	Dean (R&D)
ii	Prof. Charul Bhatnagar	Director IQAC
iii.	Prof. Meenakshi Bajpai	HOD, IPR
iv.	Prof. Kamal Sharma	Assoc. Dean (R&D)

- The Chairman welcomed the members of the committee and informed them about the agenda of the meeting. The Committee examined the proposals submitted by the faculty members of various departments of GLA University, Mathura for sanction of Seed Grant.
- Based on presentation novelty and components/apparatus prescribed in the proposal the committee recommended 8 proposals out 12 proposals received for Seed Grant.

S.NO.	Name of Faculty	Name of Department	Title of Projects	Amount in RS.	
1	Prof AS Jalal Mr. Rajesh Tripathi	Department of Computer Science and Engineering	Adge Invariant Face Recognition using Machine Larning	675000	
2	Dr. Naveen Kumar Gupta	Department of Mechanical Engineering	Experimental Investigation of operating parameters of Cascade Refrigeration and Airconditioning systems	730000	
1	Mr. Rajkumar Sharma	Department of Mechanical Engineering	DESIGNING, MODELLING AND 3-D PRINTING OF COTTER JOINT	1000000	

4	Mr. Bharat Singh	Department of Mechanical Engineering	Fabrication and analysis of flexible manufacturing stations	750000
	Mr. Vikas Sharma	Department of Mechanical Engineering	Fabrication of material handling system in modern manufacturing with industry 4.0 approached.	750000
6	Mr. Pankaj Sonia	Department of Mechanical Engineering	Fabrication of product sorting/sampling system to promote the automation in manufacturing system	750000
7	Dr. Kundan Kr. Chaubey Dr. Saurabh Gupta Prof. Shoorvir Singh	Department of Biotechnology	Prevalence and characterization of Mycobacterium avium subspecies par tuberculosis infection in domestic livestock population	750000
	Dr. Saurabh Gupta Dr. Kundan Kr. Chaubey	Deaprtment of Biotechnology	Bio-load and Bio-type profiles of Mycobacterium avium subspecies par tuberculosis infection in the bovine population endemic for Johne's disease using real time assays	700000

Fund granted by the Research Review Committee appears to be ideal (Rs. 61,05,000)4. The committee recommends the proposals of Seed Gramt and request Vice chancellor for necessary approval.

Having examined all proposals, meeting was adjourned.

Committee Members:



Prof. Charul Bhatnagar Member

Meenaksh (Prof. Meenakshi Bajpai) Member

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(Prof. Kamal Sharma) Dean (Redsetth & Development) GLA University, Mathura-281400

Anaul Islan Agrund (Prof. AM Agrawal) Chairperson

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(Prof. Anirudh Pradhan) Convener



AGENDA OF THE 3RD MEETING OF RESEARCH ADVISORY BOARD TO BE HELD ON 12.04.2021 AT 10:30 AM IN THE OFFICE OF PRO-VICE CHANCELLOR.

AGENDA

Item No. 3.01: To confirm the Minutes of the 2nd Meeting of the Research Advisory Board held on 27.04.2019.

Item No. 3.02: Action taken on the decisions of the 2nd Meeting of the Research Advisory Board.

Item No. 3.03: To consider the progress report of the Sponsored Projects granted in various departments of the University in last three years.

Item No. 3.04: To consider and recommend the revision in the incentives to be given to the faculty and other stake holders of the GLA University.

Item No. 3.05: To consider and recommend the conduction of examinations in Online mode for the course work of Ph.D. Research Scholars due to Pandemic COVID-19.

Item No. 3.06: To report the progress of PhD scholars in online mode.

Item No. 3.07: To report the progress concerned to the patent filed/published/granted in the Calendar Year 2020.

Item No. 3.08: To consider and recommend, revisions proposed in the policies such as Research Promotion, Intellectual Property Rights and Consultancy of the University.

Item No. 3.09: Any other item with the permission of the Chair.

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(Prof. Anirudh Pradhan) Dean, Research & Development Dean (Reaserch & Development) GLA University, Mathura-281406



AGENDA NOTE

Item No. 3.01: To confirm the Minutes of the 2nd Meeting of the Research Advisory Board held on 27.04.2019.

The Minutes of the 2nd Meeting of the Research Advisory Board held on 27.04.2019 were circulated to the members of the Board for comments, if any, No comments were received. The Board is requested to confirm the Minutes of the 2nd Meeting placed at **Annexure-I**.

Item No. 3.02: Action taken on the decisions of the 2nd Meeting of the Research Advisory Board.

No action is pending.

Item No. 3.03: To consider the progress report of the Sponsored Projects granted in various departments of the University in last three years.

The list of projects granted in the various departments of the University are attached at **Annexure-II**. The progress report of the Research Board is presented before the members of the Board for their kind information

Item No. 3.04: To consider and recommend the revision in the incentives to be given to the faculty and other stake holders of the GLA University.

In order to increase the publications, patents, the revision has been made in the incentives to be given to the faculty members of the University. The Board is requested to consider and recommend the revision of the incentives to the faculty members placed at **Annexure-III** for approval of the Competent Authority.

Item No. 3.05: To consider and recommend the conduction of examinations in Online mode for the course work of Ph.D. Research Scholars due to Pandemic COVID-19.

The Research Board was informed that due to spread of Pandemic COVID-19, the examinations and course work of the Ph.D. Scholars of the University were held on Online mode. The Research Board is requested to consider and recommend the same to the Competent Authority for its approval.

Item No. 3.06: To report the progress of PhD scholars in online mode.

It was informed that the DRDC, Semester Presentation of Progress Report of the Scholars were held on Online mode. The Board is requested to recommend the same to the Competent Authority.

Item No. 3.07: To report the progress concerned to the patent filed/published/granted in the Calendar Year 2020.

To report the status of patents published (107 Nos.) /granted (04 Nos.) from all the departments of the University for the Calendar Year 2020. (Annexure - IV)

Item No. 3.08: To consider and recommend, revisions proposed in the policies such as Research Promotion, Intellectual Property Rights and Consultancy of the University.

To consider & recommend the revisions done in research promotion policy, Intellectual property rights policy & Consultancy policy of the University.

Item No. 3.09: Any other item with the permission of the Chair.

(Prof. Anirudh Pradhan)

(Prof. Anirudh Pradhan) Dean, Research & Development Dean Reserch & Development GLA University, Mathura-281406



Minutes of the 3rd meeting of the Research Advisory Board held on 12.04.2021 at 10:30 A.M. in the Office of the Pro-Vice-Chancellor

The following members were present:

- 1. Prof. A.M. Agrawal Pro-Vice Chancellor
- 2. Prof. Anoop Kumar Gupta-Dean Academic Affairs
- 3. Prof. Kamal Sharma Asso. Dean (R&D)
- 4. Prof. Kumar Sankar Ray Distinguished Professor, Dept. of CEA
- 5. Prof. Reeta Goel Distinguished Professor, Dept. of Biotechnology
- 6. Prof. Mukul Shukla Mechanical Engineering Department, MNNIT, Allahabad, Prayagraj-211004, U.P.
- 7. Prof. Anirudh Pradhan Dean (R&D), Member Secretary

After this, the agenda of the meeting was taken up for discussion.

Item No. 3.01: To confirm the Minutes of the 2nd Meeting of the Research Advisory Board held on 27.04.2019.

The Minutes of the 2nd Meeting of the Research Advisory Board held on 27.04.2019 were circulated to the members of the Board for comments, if any, No comments were received. The Minutes of the 2nd Meeting were confirmed.

Item No. 3.02: Action taken on the decisions of the 2nd Meeting of the Research Advisory Board.

No action is pending.

Item No. 3.03: To consider the progress report of the Sponsored Projects granted in various departments of the University in last three years.

The Board deliberated on the work carried out on the projects granted by the sponsoring agencies during last three years. The Board appreciated the work done by the Principal Investigators of the University.

The list of projects granted in the various departments of the University were discussed by the members and the members were satisfied with the progress report.

Item No. 3.04: To consider and recommend the revision in the incentives to be given to the faculty and other stake holders of the GLA University.

The Board deliberated on the proposed revision in the incentives to be given to the faculty members/stake holders and others of the GLA University are recommended for the approval of the Competent Authority.

Item No. 3.05: To consider and recommend the conduction of examinations in Online mode for the course work of Ph.D. Research Scholars due to Pandemic COVID-19.

The Secretary of the Board informed the members that due to spread of Pandemic COVID-19, the examinations and course work of the Ph.D. Scholars of the University were held on Online mode. The Research Board recommended the same to the Competent Authority for its approval.

Item No. 3.06: To report the progress of PhD scholars in online mode.

It was informed that the DRDC, Semester Presentation of Progress Report of the Scholars were held on Online mode due to COVID-19. The Board considered and approved the same.

Item No. 3.07: To report the progress concerned to the patent filed/published/granted in the Calendar Year 2020.

The board deliberated on the work carried out on patent filing/publishing & grant by the University for the Calendar Year 2020. The list of most innovative patents published by the various departments of the University were discussed by the members and found satisfied by the progress report.

Item No. 3.08: To consider and recommend, revisions proposed in the policies such as Research Promotion, Intellectual Property Rights and Consultancy of the University.

The Board deliberated the revisions proposed in research promotion policy, Intellectual property rights policy and consultancy policy of the University. Therefore board is requested to consider & recommend the changes & revisions from the competent authority to its approval.

Item No. 3.09: Any other item with the permission of the Chair.

There was no other item for discussion.

The meeting ended with vote of thanks to the Chair.

Ahadla

(Prof. Anirudh Pradhan) Dean, Research & Development

Dean (Reaserch & Development) GLA University, Mathura-281406

Annexure - I



Research Advisory Board

Minutes of the 2nd meeting of the Research Advisory Board held on 27.04.2019 at 3:30 P.M. in the Office of the Pro-Vice-Chancellor.

The following members were present:

- 1. Prof. A.M. Agrawal Pro-Vice Chancellor
- 2. Prof. Anoop Kumar Gupta Dean Academic-Affairs
- 3. Prof. Kamal Sharma Asso. Dean (R&D)
- Prof. Yash Pal Department of Electrical Engineering, NIT, Kurukshetra, Haryana.
- 5. Prof. Anirudh Pradhan Dean (R&D), Member Secretary

After this, the agenda of the meeting was taken up for discussion.

Item No. 2.01: To confirm the minutes of the 1st Meeting of the Research Advisory Board held on 19.01.2019.

The Minutes of the 1st Meeting of the Research Advisory Board held on 19.01.2019 were circulated to the members of the Board for comments, if any, No comments were received. The Minutes of the 1st Meeting were confirmed.

Item No. 2.02: Action taken on the decisions of the 1st Meeting of the Research Advisory Board.

No action is pending.

Item No. 2.03:To consider the progress report for the conduction of IPR related workshops/seminars in various departments of the University.

The Board deliberated on the work carried out on the workshops/seminars organized by the various departments of the university. The list of workshops/seminars conducted in the various departments of the University were discussed by the members and the members were satisfied with the progress.

Item No. 2.04: To consider the progress report for the conduction of workshops on "How to write a quality research paper and sponsored projects" in various departments of the University.

The Board deliberated on the progress report for the conduction of workshop for the purpose to increase the quality research papers as well as sponsored projects.

The list of workshops conducted in the various departments of the University were discussed by the members and the members were satisfied with the progress.

Item No. 2.05: To consider and approve number of vacancies concern to PhD admissions to be taken in 2019-20 (Odd semester).

The Board deliberated on the proposed number of vacant seats for PhD scholars in the various departments of the university and recommend the same for the approval of competent authority.

Item No. 2.06: To consider and approve the seed money grant against the proposals submitted and scrutinized by Research Review Committee for the Session 2019-20.

The Research Board appreciated and seen the process for seed money grant against the proposals submitted by the faculty members from the various departments of the university and recommend the same for the approval of competent authority.

Item No. 2.07: Any other item with the permission of the Chair.

There was no other item for discussion.

The meeting ended with vote of thanks to the Chair.

(Prof. Anirudh Pradhanout) Dean, Research & Development GLA University, Mathur

Annexure - II

DURATION OF THE PROJECT (IN YEARS)	2	з	£	2	1	3	2	1	5
AMOUNT (INR IN LAKHS)	2112958	5477120	5756000	196000	962369	834000	872000	80000	. 5500000
REFERENCE NO.	59/14/08/2019-BRNS/34121	BT/PR32758/AAQ/1/760/2019	BT/PR32827/TRM/120/258/2019	NRDC/220000/TCS/2019-20	DST/INSPIRE/01/2018/000616	CST/D-2784	4(8)/2020-ITEA	EDII/DST-NIMAT/19-20/117	UPLC: Startup policy:2020-21/304
FUNDING AGENCY	Department of Atomic Energy Board of Research in Nuclear Sciences	Ministry of Science & Technology Department of Biotechnology	Ministry of Science & Technology Bepartment of Blotechnology	National Research Development Corporation	Ministry of Science & Technology Department of Science & Technology (INSPIRE Program)	Council of Science & Technology, UP	Ministry of Electronics & Information Technology R&D in IT Group	Vational Science & Technology Entrepreneurship Development Board, Govt of India	Ministry of IT & Electronics, Govt of Uttar Pradesgh
NAME OF DEPARTMENT	Electronics & Communication Engg	Biotechnology	Biotechnology	Biotechnology	Biotechnology	Computer Engineering & Applications	Computer Engineering & Applications	NewGen IEDC	NewGen IEDC
NAME OF PRINCIPLE INVESTIGATOR/ CO-INVESTIGATOR	Mr. Jitendra Kumar Prof. Vishal Goyal	Prof. Shoor Vir Singh Dr. Kundan K. Chaubey	Dr. Shoor Vir Singh Prof. Dipak Das Dr. Saurabh Gupta	Pro£ Shoor Vir Singh	Dr. Anjana Goyal	Prof. Dilip Kumar Sharma	Prof. Anand Singh Jalal Prof. Dilip Sharma	Prof. Manoj Kumar	Prof. Manoj Kumar
TITLE OF THE PROJECT	Design of an adaptive fractional order PD controller for spatial power control of AHWR	Identification of keymolcular factors involved in resistance/susceptibility to paratuberuclosis infection in Indigenous breed of cows.	Development of herbal formulation from medicinal plants (Ocimum sanctum and Solanum xanthocarpum) for the therapeutic management of Mycobacterium avium subspecies paratuberculosis infection in domestic livestock	Development and standardization of " Indigenous Johnin from native strain Indian bison type of my cobectrium avium subsp. Paratuberculosis for the diagnosis of Johne's disease in domestic livestock as the field test	INSPIRE Internship Science Camp	Identification of unreliability and fakeness in Social Media posts	Machine Learning Approach for suspect face retrieval using verbal description given by an eye witness	National Implementing and Monitoring Agency for Training	Establishment of Incubator in GLAU
S.NO.	1	2	3	4	5	9	7	8	6



RESEARCH PROMOTION POLICY (Revised) (Approved in 4th meeting of the Academic Council held on 17.11.2021)

GLA University, Mathura lays strong emphasis on the sponsored/ collaborative interdisciplinary research funded by the various government/non-government international and national agencies with a strong industrial interaction. The university has set up modern laboratories and the supporting infrastructure. As an outcome of the aforementioned activities the faculty members from the various departments of GLA University is committed to produce quality research articles.

1. PROLOGUE

GLA University is committed to the pursuit of excellence in research and aims to achieve international recognition through interdepartmental and inter-institutional collaborative research programmes across the spectrum of Science, Engineering and Technology namely, Civil Engineering, Computer Engineering & Applications, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering, Bio- Sciences and Technology, Mathematics, Physics, Chemistry, Management Sciences, Pharmacy as well as Law and Social Sciences. GLA University shall ensure that research in all fields that include trans and multidisciplinary types grows exponentially, keeping the ethical norms and researchstandards intact.

2. OBJECTIVES

- To establish world class research culture, ambiance and infrastructure.
- To facilitate inter, multi and transdisciplinary research.
- To publish papers in journals of international repute, file patents (National, International) and transfer technologies to relevant industries.
- To continuously monitor the research outputs for ensuring quality by appropriate committees.
- To create quality human resources for scientific research.
- To recognize both faculty members and students on their research output.
- To aim to stand among the top-notch Research Universities across the globe.
- To promote the globalization of research to achieve Global visibility.

1. GLA University- RESEARCH PROMOTION SUPPORT SCHEMES

(a) **RECOGNITION SCHEMES** (EXISTING)

GLA University recognizes the research carried out by its faculty members and research scholars for publishing papers, contribution to h-index of the university through citations, funded projects and patents.

Journal Publications:

In order to enhance research culture in the GLA University through Quality Publications, following reward guidelines were implemented:

Publications in SCI/ABDC – B and above journals, reward of Rs. 50,000/- per paper.

Publication in Scopus/WoS/ABDC – C journals, reward of Rs. 20,000/- per paper.

т		First Author	60%
1	Papers with two Authors	Second Author	40%
		First Author	50%
II	Papers up to three Authors	Second Author	25%
		Third Author	25%
		First Author	40%
		Remaining 60% to	
III	Papers with more than three Authors	be divided equally	60%
		in rest of the	
		Authors	

> Patents:

• If a faculty member publish his/her patent of research work, he/she will be rewarded with Rs. 25,000/- which is equally divided among all inventors and in case his/her patent is granted, then he/she will be rewarded with Rs. 1,00,000/- for that patent which is also equally divided among all inventors.

> Chancellor's Award and Vice-Chancellor's Award:

The Chancellor's Award and Vice- Chancellor's Award worth Rs. 1.51 lakh and Rs. 1.00 lakh respectively for Research Excellence have been implemented. The criteria for award are as given below:

Group I (Publications)	Group II (Patent, Consultancy and Awards)	Group III (Research)				
List of all published papers in	Patent submitted/awarded.	M.Tech./M.Sc./M.Pharm./				
SCI journals only with title,	One/two patents awarded by	Ph.D. Supervision. Ph.D.				
name of authors, volume,	National/International	One/two Ph.D. awarded in				
issue no., year, pages and	bodies.	last 3 years.				
impact factor by Thomson						
Reuters.						
Previous 3 years consistently						
published two papers to						
his/her credit.						
Conferences - international	Consultancy details and	Research collaboration with				
and national.	amount received Rs. 5.0	others Institutions on				
Invited/Session Chair/oral	lakhs and with any one	National and International				
papers presentation	condition fulfilled of A	level in addition to any one				
	category.	condition of A.				
Books/monographs based on	Award for distinguished	Affiliation with other				
the research work of the	work with additional	research centre of				
faculty as a sole author with	condition of A.	National/International				
additional condition with A.		eminence with A.				
Working as reviewer/	Patent reviewed and	Research projects funded by				
Refereeing/ editing research	frequently honoured to	external agencies with A.				
papers of SCI journals with A.	review the patents with A.					

The candidate should score marks in at least two of the three criteria to be eligible for the award. A committee appointed by Hon'ble Vice-Chancellor will finalise the names as per the given guidelines.

Following clauses have been proposed for approval by the Academic Council in its meeting to be held on 17.11.2021 :

- 1) Book/Chapter:
 - One Book author of BCI/WOS indexed will be rewarded Rs 50000/- however, Rs. 20000/- will be rewarded to Scopus indexed book.
 - Textbooks, edited books or book chapters published by reputed publishers with ISBN number only are eligible. Quality of publishers will be verified by University Research Committee.
 - One who claims for an edited book cannot claim for his/her contribution to a chapter in the same book.
 - Thesis as a book and manuals will not be considered.
 - Conference proceedings published as Lecture notes are not considered as book chapter.

2) Funded Project

a) FUNDED PROJECT/CONSULTANCY:

- For a government sponsored Research projects 50% of overhead charges will be awarded to PI and CO-PI. Furthermore, 60% of the said amount will be rewarded to PI and remaining 40% to Co-PI.
- GLA University has separate policy on consultancy (Annexure-I).

b) UNIVERSITY FELLOWSHIP FOR PH.D. CANDIDATES

Minimum Eligibility Criteria for the selection of PhD Full Time (Stipend)

Research Scholars (Rs. 25000/- (Full) and Rs. 15000/-):

Academic Qualification

- NET / GATE / GPAT etc. (Desirable)
- 65% in Master's degree (Mandatory), However 55% for Applied humanities and Management.
- Publication's if any. (Desirable)
- Performance in test and interview (60% in both the section & Interview) (Mandatory)

Academic Engagement

- 02 Years bond (Mandatory) (Same for Category I and II)
- 8 Hrs. Lab / Tutorial Academic engagement, however, 4 hrs is applicable for category-II. (Mandatory)
- The research scholar is expected to publish One Paper per year after the completion of his/her state of art presentation (Mandatory) (Same for Category I and II)
- Any other academic / research assignment given by the department.

* All kind of leaves (same as applied on Assistant Professors of the University) will be sanctioned through Chairmen DRDC.

*If any Research scholar wishes to terminate his/ her candidature, he/she shall inform the Dean Research and Development/ Chairmen DRDC of the department giving one-month notice.

c) GLA UNIVERSITY SEED MONEY FOR FACULTY MEMBERS

- A grant in the form of research seed money is given to the full-time faculty members of GLA University, who have submitted project proposals for funding and waiting for the sanction of grant.
- The call for research proposals would be made by Dean Research and Development in the month of October every year.
- All proposals received would be evaluated for their quality by a committee headed by Dean Research and Development, and recommended applicants will receive the seed grant.
- The Project period is two year from the date of sanction and is expected to be conducted by the faculty member himself or herself. Hence no manpower would be supported in the Grant.
- It is expected that the grantee shall submit the report of the research done to Dean Research and Development.

3) POST DOCTORAL FELLOWSHIP (PDF)

- The duration of the fellowship will be initially for a period of 1 year, renewable for 2nd and 3rd year on satisfactory performance of the PDF scholar in the half-yearly review meeting.
- There is no provision for providing manpower support under this scheme. The PDF scholar is expected to undertake the research objectives by himself/herself during the entire duration of the fellowship.
- The PDF scholar will be reporting to the HOD/Guide/Mentor and has to take minimum 12 Hrs of teaching load.
- The PDF scholars are not eligible to receive any other fellowship from any Government or Non-Governmental source during the tenure of the fellowship.
- The PDF scholars will not be allowed to work with their Ph.D. guide/co-guide.
- The PDF scholars are entitled to a total Casual Leave (CL) of 12 days per academic year (July to June).
- If any PDF scholar wishes to terminate the fellowship, he/she shall inform the Dean Research and Development/ Chairmen DRDC of the department giving one-month notice.
- If the candidate wants to quit before 6 months, he/she should repay 50% of stipend received till that date.
- GLA University reserves the right to terminate the Fellowship at any stage if it is convinced that appropriate progress is not being made or the grant has not been utilized properly.

4) FINANCIAL SUPPORT FOR RESEARCH PAPER PRESENTATION IN NATIONAL /INTERNATIONAL

- (i) Conferences/ Seminars/ Professional bodies Membership Fee
 - Faculty members are eligible to get financial assistance on case to case basis for attending Conferences in India and abroad.
 - A faculty member can seek reimbursement only if he/she is a presenter/first author/ Invited speaker/orator, provided no other agency had given financial help for the same. A faculty is not eligible for reimbursement, for just chairing a session or attending the conference.

(ii) For Workshops/Training:

• Expenses can be reimbursed up to maximum of Rs. 10000/- per annum. If it is conducted by a National Association/national Institute/Industry/University and is supported by recommendations of theHead of the Department/Course Chairperson.

5) INCENTIVES TO TEACHERS WHO RECEIVE STATE, NATIONAL AND INTERNATIONAL RECOGNITION/AWARDS (INCLUDING FINANCIAL SUPPORT)

The following awards will be given weightage in the performance evaluation form. However, the first six will have more weightage than the rest of the thing.

Category - A

- Nobel Prize, Bharat Ratna
- International awards by UN, WHO, UNESCO & International Academics, International Universities like Magsaysay, Pulitzer
- Padma awards

Category - B

- Janapith, Sahitya Academy National Awards from agencies like UGC, CSIR, DBT, ICMR, National Academics, MCI, ICSSR, ICHR etc., President of India Special awards like B.C. Roy award etc. (Overseas training/ fellowship wards by funding agencies not included)
- State Government awards for Science, Medicine etc., Science etc., like Uttar Pradesh Council for Science & Technology (UPCST) awards & Best Teacher/ Research awards of Universities.
- Fellowship titles of national academics, Awards of national level professional associations in Science, medical Science etc., (FAMS, FNA, FNASc etc.,)

Category - C

- Technology Transfer & Commercialization agreement 5% of the revenue generated from technology transfer will be shared with inventors.
- Trademarks / Copyrights

In addition to this teaching component is having students credit, feedback and the activities like video recording, MOOC course preparation extra care for slow learners, project guidance and innovation in class room teaching are given due weightage.

NOTICEABLE POINTS:

- Incentives will be paid to GLA University faculty members only.
- Paper must have GLA University affiliation mentioned in it.
- Research papers published in UNPAID (SCI/SCOPUS/WoS/ABDC and equivalent) Journals only will be considered.
- If a paper is written by GLA University author with himself/herself at first position and remaining authors of externally affiliated, then full incentive will be awarded to the author of host institution.
- The University recognize its full time faculty members who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies.
- In collaborative research paper author can claim either reward or his/her API points.
- If faculty is not holding the position of first author in collaborative research especially in the case of paid journal, Rs.10000/- and Rs.5000/- will be reimbursed for journal publications and conference publications respectively.
- First and corresponding authors will get equal and higher weightage in comparison to other authors (Max point will be 100% of a paper's point)
- Author get entitled for reward only after indexing of the article (Web of Science/ SCOPUS), published with volume/issue/page numbers. If the paper is accepted and published online but not yet assigned with volume/issue/page numbers is not considered.
- If an author completed his/ her publication requirement as per API, after the completion of the publication requirement (As per API), the author will be rewarded with an amount of Rs. 5000/- per Scopus publication.

Ahadlea

Dean (Reaserch & Development) GLA University, Mathura-281406



INTELLECTUAL PROPERTY RIGHTS POLICY

(Approved in 4th meeting of the Academic Council held on 17.11.2021)

1. Preamble

The GLA University, (hereafter referred to as GLA) has, over the past two decades, been undertaking to train good quality scientific and technical manpower and providing answers to a variety of challenging technical problems that may arise in various fields, through its competent faculty and proficient supporting staff, to become one of the leading centers of teaching, research and extension in Engineering and Technology and dedicated to excel in every sphere of its activity. It has been constantly encouraging and nurturing research, scholarship, innovation and academic excellence.

The GLA University recognizes that intangible assets like inventions, copyright, know-how, designs and other creative and innovative products generated during the scientific and intellectual pursuits of its faculty and its students and provides a competitive edge to the University. It, therefore, has formulated its intellectual property rights policy to provide guidelines to its faculty, academic and non-academic staff, research scholars, students and outside agencies and sponsors on the practices and rules of the University regarding intellectual property rights (IPR) and obligations which includes the nature of intellectual property, its ownership, technology transfer, commercial or non-commercial exploitation and confidentiality requirements. The policy is expected to promote a conducive environment for both curiosity and market-driven research and development activities at the university and to bring forth original works of authorship.

This policy discusses intellectual property issues in order to safeguard the principles of academic freedom, allocate a fair share of the benefits to all those involved in the creation of intellectual property, and encourage the drive to conduct research, transfer technology and benefit materially from the generation of intellectual property. The policy laid down in this document is expected to further the commitment of GLA University to providing an environment where scholarship and innovation, including ideas, discoveries, creative and artistic works, tangible results of research and developmental work, can flourish, leading to development of intellectual property. It will also enable the Institute to make beneficial use of such developed intellectual property for the greatest possible benefit to the public, the university and the creators involved.

It is to be stressed that this IPR policy is to be treated more as a guideline than a rule in the legal sense because of the evolutionary scenario in the nation's IPR policy and is, therefore, subject to changes if a need arises. This document together with the appendix (operating guidelines) and the annexures (some use full information on patents and copyright) and (salient features of IPR and services provided by IPR Cell) are designed to give a wholesome picture of Intellectual Property (IP) management at GLA.

2. Purpose

The purpose of the IPR policy of GLA is to:

- **a.** Facilitate, encourage, promote and protect scientific inquiry, research pursuits and the educational freedom of its faculty, researchers and students;
- **b.** Create a revolutionary progressive culture which fosters the invention and development of IP at the University;
- **c.** Provide a clear understanding of the rights and responsibilities of the faculty staff, and students and protect the interests of the University members:
- **d.** Establish an IPR management policy and procedural guidelines for converting the knowledge generated in the University to wealth;
- e. Enable the University to make beneficial use of IP so as to confer maximum benefit to the inventors, the University and the society at large and;
- **f.** Shape the University as a prime academic research University practicing highest ideals of scholarship and teaching through dissemination of the benefits of IP generated at the University to the community and society.

3. Definitions:

- I. Intellectual property (IP) used herein broadly means any property generated out of creations of the mind or intellectual effort of the creator, such as inventions; literary and artistic works; designs; and symbols, names and images used in commerce, either having proprietary value or is protected by any statute. IP is protected in law by, for example, patents, copyright and trademarks, which enable people to earn recognition or financial benefit from what they invent or create. By striking the right balance between the interests of innovators and the wider public interest, the IP system aims to foster an environment in which creativity and innovation can flourish.
- **II. Intellectual property Rights (IPR)** means the rights derived from the IP, e.g. patents, industrial designs, copyright, trademark, geographical indications, etc.
- **III. Background information** means technical information and know-how owned or controlled by the partners of a collaborative Research and Development programme before the start of the programme, in the same field as the subject matter of the programmer or in related fields as necessary for the execution of the programme.
- **IV. Background intellectual property means** the intellectual property owned or controlled by the partners of a collaborative Research and Development programme before the start of the programme, in the same field as the subject matter of the programme or in related fields and necessary for the execution of the programme.
- V. Foreground intellectual property means the intellectual property generated during the course of a collaborative Research and Development programme.
- VI. University Personnel in this policy document includes all the faculty members, staff,

students, research scholars (Internal and External), visiting scientists, professors and other professionals who are hired either on a full-time basis or part-time basis.

- VII. **Patents -** A patent is an exclusive right granted for an invention. Generally speaking, a patent provides the patent owner with the right to decide how or whether the invention can be used by others. In exchange for this right, the patent owner makes technical information about the invention publicly available in the published patent document.
- VIII. Copyright Copyright is a legal term used to describe the rights that creators have over their literary and artistic works. Works covered by copyright range from books, music, paintings, sculpture and films, to computer programs, databases, advertisements, maps and technical drawings.
- **IX. Trademark -** A trademark is a sign capable of distinguishing the goods or services of one enterprise from those of other enterprises. Trademarks date back to ancient times when artisans used to put their signature or "mark" on their products.
- X. Industrial Designs An industrial design constitutes the ornamental or aesthetic aspect of an article. A design may consist of three-dimensional features, such as the shape or surface of an article, or of two-dimensional features, such as patterns, lines or color.
- **XI. Geographical Indications -** Geographical indications and appellations of origin are signs used on goods that have a specific geographical origin and possess qualities, a reputation or characteristics that are essentially attributable to that place of origin. Most commonly, a geographical indication includes the name of the place of origin of the goods.
- XII. Work for hire is defined for the purposes of this policy as any work commissioned by the Institute, from a creator as defined by this policy for a consideration or otherwise, or from an external agency. In all such cases the ownership of the resulting intellectual property shall be assigned to the University in a written contract between the concerned parties.
- **XIII.** Fair use- this is the amount of copying allowed by law so that copyright shall not be a stranglehold on the progress of human knowledge. Limited portions of a work can be copied without the rights holder(s)' permission for non-commercial and academic uses, although the exact permissible percentage may have to be determined by the courts. In general, use of a small part of a work which does not hurt the present or potential market for that work is allowed under fair use, but there are many grey areas where the law has to be decided on a case-by-case basis. Fair use in the classroom during regular teaching is understood more liberally than that permissible in teaching for distance education multimedia packages. This is because distance education packages are commercial products and hence permission has to be sought for the use of any intellectual property held by others which may be quoted or reproduced in the package. The possibility of fair use exists only in the case of copyright and does not apply to patents.
- XIV. Creator refers to an individual or a group of individuals at the Institute, who make,

conceive, reduce to practice, author, or otherwise make a substantial intellectual contribution to the creation of any intellectual property. "Creator" includes an "inventor" in the case of inventions under Patent Law, an "author" in the case of works falling under the Industrial Designs Law and/or Copyright Law.

- **XV.** Commercializable intellectual property: Commercializable intellectual property is that intellectual property which can be transferred to a commercial organization through patent licensing or confidentiality agreements for the purpose of exploitation on the market. Such property is to be safeguarded either under patent laws or by secrecy as is relevant and practicable.
- **XVI.** Usual University Resources: Usual University resources mean facilities such as office space, standard laboratory facilities, library, normal access to software, computers and networks, standard secretarial services, salary and perquisites.
- **XVII.** University Supported Resources: University-supported resources mean special facilities and equipment, specific funding, intellectual property already owned by the Institute, requisitioning the time and labour of students and staff through Institute administrative channels, or at the Institute's instance and expense, and remission by the University of any or all of the normal duties of staff or students to provide time or resources for the purpose of generating intellectual property.

4. Objectives

Universities and public research institutions (PRIs) are the factories of the knowledge economy. Intellectual property (IP) adds another mechanism for universities to disseminate the knowledge that they generate and to have that knowledge used in the economic sector.

The IPR policy of GLA University aims to:

- **a.** Facilitate protection and valorization of intellectual property generated by its faculty, staff and students as a result of their intellectual and scientific pursuits at the GLA during the tenure of their employment/engagement at the GLA and thereby offer scope for wealth generation, alleviation of human sufferings and betterment of human life;
- **b.** Usher in prudent IP management practices within GLA to promote IPR awareness and culture among its faculty, staff and students;
- c. Provide a comprehensive single-window reference system for all IPR related issues and;
- **d.** Proactively create an environment for generating new knowledge through research, development, discovery of new knowledge and innovation compatible with the educational mission of GLA;
- **e.** to set and make available a policy for conducting the dissemination of GLA's intellectual property for commercial use, so that such use imparts the benefits of the intellectual property to the public while safeguarding the interests of the creators or licensees of such property, and in the process generates revenue for GLA and the creators.
- **f.** To set up and maintain an office to provide services to the employees and students for effective commercial utilization of intellectual property generated at GLA in the interests of all concerned, and to oversee the fair distribution of the returns accruing there from in accordance with this policy and its amendments.
- **g.** To provide legal support as GLA deems necessary to defend and protect the interests of GLA and creators of intellectual property against unauthorized use of such property.

5. Scope/Coverage

This policy covers all rights arising from the intellectual property devised, created, or generated by the faculty members, staff, students, research scholars (both internal and external categories), persons employed in sponsored research and consultancy projects and visiting scientists/ professors/professionals who participate in teaching and research work being carried out at GLA University either on a full-time basis or part-time basis, irrespective of the eligibility of these rights for registration. The IP arising from academic research includes patents, designs, trademark, copyright, know-how and undisclosed or confidential information.

6. Policy Statement

The University is committed to promoting, protecting, managing and commercializing Intellectual Property consistent with the recognition that among its primary objects and functions are teaching, research and meeting the needs of the community and society. It supports the commercialization and exploitation of IP, which can provide an additional source of revenue to the University and also accrue benefits to staff and students. At the same time, the University recognizes traditional academic values and expectations.

7. Ownership of Intellectual Property

a. Patents and Inventions

i) In all the applications filed by the University for the ownership of intellectual property rights, the persons who have directly contributed intellectual inputs shall be mentioned as inventors or creators.

ii) The University will require to be assigned to it such intellectual property as is created by creators:

* through the use of Institute-supported resources and which is in the opinion of the Institute commercializable by the Institute and its assigns;

* intellectual property created through sponsored research where the sponsor does not claim intellectual property rights.

b. Copyrights

- i. The University is the owner of the copyright on all teaching and instructional materials developed by the employees of the University as a part of any of the academic programmes of activities at the University. However, the author shall have the right to use the material in his/her professional work.
- ii. Books, articles, monographs, speeches, and other communications produced by the staff members in the course of research and teaching using University resources will be outside the purview of this clause. The University recognizes faculty ownership of the copyright in such traditional works of authorship.
- iii. In cases where the copyrightable works including software are created by the employees of the University with significant use of University's resources, the University may

demand assignment of the copyright of such works either in full or in part depending on the extent to which the University's resources have been used to produce the copyrightable work

- iv. The University shall be the joint owner of the copyright of works produced by nonuniversity personnel associated with or engaged in any activity of the University with the intellectual contribution of the University personnel.
- v. If any copyrightable work is produced during the course of any sponsored /or collaborative activity, the ownership of copyright will be determined either according to the terms and conditions (related to IP) specified in the contract, if any, governing such activity or through mutual consultations and agreement with the sponsoring/collaborating agency.
- vi. In the case of a thesis/dissertation/project report written by a student, the ownership of copyright shall rest with the student. The student will provide to his/her department a copy of the laboratory records, including software, of an investigation for a thesis or dissertation for use in teaching and research by the GLA University. However, in such cases, the University may demand assignment of the ownership of the copyright in full. Where the University does not demand such assignment or where the copyright has not been assigned to the University, the University will be entitled to a non-exclusive, non-transferable license to use the work within the University for noncommercial educational and research purposes or to possess a limited number of copies for such purposes, whichever is relevant.
- vii. Any copyrightable work generated as a work-for-hire will normally belong to GLA University unless otherwise specified in the original contract for the work.
- viii. If GLA University foresees a gainful return from the copyrights, it may initiate steps to file and protect such copyright and share the financial benefits with the creator on mutual terms and conditions.
 - ix. Assignment of copyrights to GLA University: Copyrightable works which fulfill the conditions below will be assigned to GLA University: computer programmes, circuit diagrams and layouts, designs etc. if in the Institute's opinion they are commercializable by GLA and its assigns,

c. University-Supported Research

All rights in respect of the intellectual property generated out of investigations carried out at the University making use of the University supported resources (not usual University resources) shall vest in and be the absolute property of the University except in cases where such investigations are carried out either jointly with other institutions and agencies or under sponsorship by an outside agency.

d. Sponsored Research

i. The IPR of inventions or copyright arising out of research projects undertaken on behalf of and entirely funded by a sponsoring agency shall be registered jointly in the name of the University and the sponsoring agency if the sponsoring agency bears the cost of securing and maintaining the IPR registration equally. Where the sponsoring agency is not forthcoming for filing a joint IPR application, the University, at its discretion after giving due notice to the industry, may apply with absolute ownership and will meet the entire cost of securing and protecting IPR. If the sponsoring agency funds the research projects only partially or if there are multiple sponsors for the same project, the sharing of IPR will be decided through mutual consultations and appropriate agreements.

- ii. If the sponsoring agency is an industry, the industry may opt for one of the following arrangements for sharing the IPR with the University in cases where clause 7 IV(a) does not apply:
- i) The ownership or right to use the generated IPR will rest with the industry but the industry has to pay the University an initial lump sum and subsequently reasonable annual royalties for a specified period in recognition of their contribution to the project. The terms of ownership or right to use the IPR will be governed by a specific a priori agreement between the University and the sponsoring industry. The right to use the generated IPR rested in the sponsoring industry may be exclusive or non-exclusive or sole in nature. In case of exclusive license, if the industrial sponsor fails to exploit within a mutually agreed time limit, the University may permit third-party exploitation of the IPR.
- ii) The ownership of the IPR will rest with the University but the exploitation rights will rest with the industrial sponsor either exclusively or non-exclusively or solely, in lieu of an initial lump sum payment and subsequently annual royalties for a specified period or other benefits to the University. In case of exclusive rights (i) Third-part exploitation will be permitted if the industrial sponsor fails to exploit the IPR within a mutually agreed time limit in the license agreement. ii) The University will retain user rights for further research and development.

e. Joint Research

If the intellectual property is an outcome of joint research undertaken by the University personnel with external organizations/agencies/individuals, the IPR will be owned jointly by the University and the collaborators. The cost of filing and maintaining the IPR and the revenue generated by its commercial exploitation will be shared by the University and collaborators according to an agreement. If the collaborators are not either forthcoming or agreeing to share the cost, the University, at its discretion, may decide to file and maintain the IPR at its own cost. In this case, the sharing of revenue accruing out of the commercial exploitation of the IPR will be solely decided by the University.

8. Technology Transfer

- **a.** The University shall take all necessary steps for the commercial exploitation of the IPR obtained either in its name or jointly with other agencies, to the fullest possible extent that is reasonably practicable, without undue delay. The commercial exploitation of the IPR will be done under the agreements involving technology transfer, licensing (exclusive or nonexclusive or sole) and revenue sharing models.
- **b.** The University shall try to identify the potential licensee(s) for commercial exploitation of the IPR to which it has absolute ownership. In case of joint ownership, the University will offer the first right to commercially exploit the joint IP, whether or not the same has been formally protected by patent(s). The licensing, in this case, would involve payment of a lump sum in the beginning as a technology transfer fee and payment of a royalty from the first date of the commercial exploitation foranutually agreed period. If the

collaborator refuses to exercise the is option, the University will proceed to commercialize the IP in a manner that it deems fit.

- **c.** In the event of the other collaborating organization/industry not undertaking the commercial exploitation within a period of two years from the first date of development of technology, the University reserves the right to license the use of IP to a third party.
- **d.** To promote and encourage entrepreneurial activities by its staff, the University may reassign, under an agreement, its ownership of the intellectual property to the inventor(s) or creator(s) of the property, who opt to market, protect and license it on their own with minimal involvement of the University.

The fees to be paid to the University by the assignee consist of all patenting and licensing expenses and the appropriate amount of royalties, equity, or other value received by the inventor(s) or creator(s).

e. The University would endeavor to exploit the IP either by itself or by commissioning a Technology Management Agency to bring to fruition the IP produced by its personnel.

The inventor(s)/Creator(s) may seek the University to assign the rights to them after a certain holding period.

9. Revenue sharing

The revenue accruing out of the commercial exploitation of IPR (i.e. the technology transfer fee and subsequent royalty payments) would be shared appropriately between the inventor(s) and the University. Currently, this ratio is 80:20. Where the University reassigns the IPR rights to its inventor(s)/creator(s), he/she/they shall reimburse all the costs incurred by the University, which include protection, maintenance, marketing and other associated costs.

10. Infringements, Damages, Liability, and Indemnity Insurance

As a matter of policy, the University, in any contract between the licensee and the University, shall have clauses of indemnity, infringements, damages and liability in the contract. The details of these clauses will depend on the situation and terms and conditions agreed upon by the parties to the contract.

The University shall retain the right to engage or not to engage in any litigation concerning patents and license infringements.

11. Conflict of Interest

The inventor(s) are required to disclose any conflict of interest or potential conflict of interest, if the inventor (s) and/or their immediate family have a stake in a licensee or potential licensee company, then they are required to disclose the stake they and/or their immediate family have in the company.

A license or an assignment of rights for any invention, technology or patent to a company in

12. Dispute Resolution

In case of any disputes between the University and the inventors regarding the implementation of this IPR policy, the aggrieved party may appeal to the Chancellor of the University. Efforts shall be made to address the concerns of the aggrieved party. The Chancellor's decision in this regard would be final and binding.

13. Application of Policy:

This policy shall be deemed a part of the conditions of employment for every employee of the University and a part of the conditions of enrolment and attendance of students at the university, students on enrolment and to all existing staff and students.

Further, the University reserves the right to amend the IPR Policy as and when such a need arises/deemed fit.

All potential creators who participate in a sponsored research project and/or make use of University-supported resources shall abide by this policy and shall accept the principles of ownership of intellectual property as stated in this policy unless an exception is approved in writing by GLA University.

14. Right to Regulate Policy:

The IPR Cell shall have the responsibility for interpreting the policy, resolving disputes, the application of the policy and recommending changes to the policy from time to time to the Chancellor through the Registrar and Vice-Chancellor. The Chancellor shall consider such changes/recommendations and take such decision there on as he/she deems fit. The IPR policy may be reviewed after three years or earlier if a major change in the same takes place at the National Level.

15. Jurisdiction:

As a matter of policy, all agreements signed by the University and dispute(s) arising there from, will be subject to the legal jurisdiction of the District Court of Mathura and Allahabad High Court (including its benches) and shall be governed by the appropriate laws of India.

INTELECTUAL PROPERTY RIGHTS POLICY OF GLA UNIVERSITY

(Operating Guidelines)

1. Introduction

The GLA UNIVERSITY is a premier institution devoted for undergraduate and postgraduate education in Engineering, Science, Management and Humanities and advanced research in all these fields. GLA has been constantly encouraging scholarship, research, academic excellence and innovation with the aim of creating an environment for open dissemination of research results and free exchange of information amongst academicians and scholars. GLA, along with its role as a facilitator for generation of fundamental knowledge in science and technology, undertakes also programs of social and economic relevance to the country. GLA, therefore, has set in place, systems and mechanisms to structure the process of commercial exploitation of the knowledge generated at GLA under the provisions of IPR regimes in the country.

2. Intellectual Property Rights Cell (IPR Cell)

The IPR Cell is constituted for formulating the guidelines and policies for adoption by GLA after due approval by the Board of Management of the University and to carry out executive actions for their implementation. The Intellectual Property Rights Cell arranges for the speedy processing and filling of applications for patents and to effectively implement the policy and guidelines of the University in respect of Intellectual Property Rights.

I. The cell will have the following structure:

Convener of the IPR Cell	: To be nominated by Chancellor from amongst the Senior Professors of the University
Гwo Associate Faculty members	: To be nominated by Chancellor from amongst the Faculty of the University

II. The cell will have an IPR legal Advisor /consultant who will be appointed by GLA. He/ She will be a well-known practicing attorney and would render the necessary advice to IPR Cell to provide information on most vulnerable patent rules and regulations in the wake of patent Co-Operation Treaty (PCT) and so on. He / She will also assistin drafting and evaluation MOUs and filling of patent and copyright applications.

III. The cell shall inter-alia have the following responsibilities

- IP Counselling: IPR cell will counsel and interact with inventors of potential intellectual products and assist the University in identifying the IPR potentials.
- IP Management: Filing, maintaining and monitoring and managing of patents and coordination between attorneys, faculty (inventor (s), andGLA authorities.
- IP Transactions: Advising, drafting and monitoring of all IP related MOUs of GLA.

- IP Policy Formulation: Framing of IP policy and amendments from time to time for consideration of the University authorities.
- Promoting IP-Awareness: The IPR cell will undertake such measures which promote awareness of IP rights and strive to develop an IP culture within GLA fraternity.
- Capitalization of IP Assets: The cell shall periodically recommend patentable technologies to potential licensing agencies, CII, and other Financial Institutions to invest in venture capital towards the new technologies. The cell shall identify specific industries and direct marketing of these technologies andpromote advertising in-house technologies of GLA via electronic media / newspapers and magazines. The IPR cell would also enlist the services of reputed Management Consultants for capitalization and commercialization of patented technologies owned by GLA. The IPR Cell will interact with the faculty members, patent attorneys, financial institutions and industries and follow-up on royalty payments from industries.
- Assistance in Technology Transfer: The Cell shall handle transfer of all technologies developed at GLA.
- Reporting on IP assets and IPR management: IPR Cell will submit periodically reports on IP assets and current status to Registrar/Vice Chancellor and the Board of Management of the University for consideration and advice.
- Appointment of a panel of attorneys for processing /filling of applications forpatents etc.
- Periodical patent/Intellectual audits through professional experts.
- To recommend terms of payment of annuity retention fees for Professionalservices
- To advice such proactive measures which will promote commercialization of patents, including exhibition of patents, industry meet etc.
- All matters for securing the protection and management of IPs in the interest of the country, University and the inventors
- Seeking expert advice from renowned financial consultants, including experts from the financial/ business Institutions such as FICCI, CII, IDBI, etc...
- IV. The IPR Cell will report to Vice chancellor of the University. It will seek the guidance of Registrar and Vice Chancellor in discharging its responsibilities.

3. IP Protection-Some Explanatory Notes (To be read in conjunction with GLA-IPR –Annexure: some useful information on patents and copyright)

The Intellectual Property could be protected in the form of: patent, Industrial design, Trademark, Copyright, confidential information, Technical know-how, Mask works, process, plans, specifications, guidelines, graphics, training materials, software programs, records, drawings, instruction guides, student materials, new techniques, algorithms, concepts etc. The intangible product of the intellect must have potential for industrial application or potential for augmenting the S&T knowledge base if it must be protected by the GLA University.

- I. **A Patent** is granted for any invention capable of commercial application. For it to meet the requirements of patentability there has to be Novelty, Utility and Non-obviousness. There must be an inventive step, which under the law, is one, which isnot obvious to the person skilled in the art. The invention may relate to a new product or an improvement of an existing product or a new process of manufacturing and existing or a new product.
- II. **Design Protection** is available for any prototype, which influences consumer's choice by appealing to the aesthetic sense of the consumer. In other words, design protection is available for "the look of the article", appearance and other visual features. There is no design protection for functional features.
- III. **Copyright:** Patent seeks to protect the applied and extension research; the law of copyright seeks to protect pure or basic research. The requirements of copyright law are: Originality, meaning its origin to the author. Unlike patents, copyright law does not demand compulsory registration. Under the copyright, the form of the expression can only be protected and not the idea itself. Copyright subsists in any original work specified in the copyright Act which is (i) a literacy, dramatic and musical or artistic work, (ii) a cinematograph film and (iii) a sound recording. Literary works include computer programs, tables and compilations including computer data bases.
- IV. **Know-how** and confidential information can be protected only so long as the owner is able to keep them secret and takes action against unlawful use of such information by others by an action of breach of confidence or contract.

4. Procedure for IP Protection:

All applications for patents and copyright (as per proforma GLA/IPR-01 and GLA/IPR-02 respectively) will be forwarded to Convener, IPR Cell through the Dean of the School/the Director of the Centre irrespective of whether the inventions have resulted from the inhouse projects, or sponsored projects.

5. Record Keeping Procedures:

All data and details generated by a creator in the course of creation of intellectual property should be systematically recorded in the concerned School/Centre, with particular reference to the following:

- a) No abbreviations or terms, except their use is a standard practice in that particular discipline, should be used, unless clearly explained in a table at the front or back of the book.
- b) Crucial data or descriptions or experiments, which relate to valuable inventions or discoveries should be signed and sated by the creator, supervisor, or coordinator of the project.
- c) Modifications, if any, should be made by drawing a line through the deleted matter and writing cancelled beside it. The corrected data (clearly marked as such) should be entered immediately below, authenticated by the creator with his / her Initials and date.
- d) Samples of new products or of products by a new method should be preserved, if possible, and photographed for the record. All photographs should be dated and signed by the creator on the reverse.

6. When Should Faculty Approach IPR Cell To Discuss A Possible Patent?

GLA has created and exclusive IPR Cell. Any faculty, who believes to be in possession of a potential intellectual property generated while in service of the GLA may approach and set up discussions with the IPR Cell advisor at any mutually convenient time. In any case, the chosen time for discussion should be sufficiently in advance of maturation of the idea into a process or product. When the invention is only at the conception stage, it is still possible to file a provisional specification, which has to be followed up with a complete specification within 12 months. If it is not done, the patent application is deemed to have been abandoned. On the other hand, if the inventor has at his hand an inventive product, which can be marketed immediately, then complete specification can be lodged straight away.

7. Evaluation of Patent/Copyright applications

Each application for a patent / copy right through an Invention Disclosure Form / Copyright Disclosure form as per proforma GLA/IPR-01 / GLA/IPR-02 along with IPR facilitation request (GLA/IPR-03)) shall be received and scrutinized/examined by IPR Cell. The committee may seek help of other professors as domain experts to preliminarily evaluate the proposals for their prima-facie patentability. The domain experts would be required to enter into a Non-Disclosure agreement as per the proforma GLA/IPR-04 and sign a No Conflict of Interest Form as per the proforma GLA/IPR-05, before getting access to the proposal.

The inventors may be requested, if necessary, to make a presentation of their case before the IPR Cell. In case the Cell recommends for filing of patents, the Convener, IPR Cell will process the application through one of the approved attorneys from the panel maintained at the IPR Cell.

8. Assistance in Filling the Proforma

Once the IPR Cell approves protecting the Intellectual output, a patent Attorney shall be identified by the Cell for drafting the IP application. The following aspects need to receive attention:

- Objective of the invention: What is the problem one is trying to solve? What are the issues involved?
- What prior art searches have been made? Which database? Search strategies adopted? Did searches cover gray literature advertisements, pamphlets, Knowledge already available to public either published or unpublished?
- How does the present invention differ from the known prior art? It is important to establish that the invention is not an obvious extension of the prior art to prove non-obviousness. Are there any unexpected findings in the present invention? What are those aspects of the invention that previous workers have not been able to findsolution for? What are the potentials for commercial applications of the new intellectual property in relation to the previous products in the same area, if known?
- To establish usefulness of the invention, one should highlight technical value of the invention and illustrate where and how the solutions obtained over the prior art can be applied with distinction. One might consider savings in the cost, materials, manpower, energy, durability, efficiency, time etc.,
- The boundary conditions of the parameters under which invention works effectively and beyond which the invention may not work. Also outline several other applications of the invention if any.
- Furnish all the information in the proforma which can be collected from the office of IPR Cell or through e-mail.

Adequate information is to be given to the Attorney to enable him prepare a draft claim. In order to ensure good protection, it is necessary that the attorney understands the invention. A good patent specification should have synergetic efforts of the inventor and the patent attorney.

9. Filing of Applications for IPR and Support

- I. All applications for IPR shall be filed by the Registrar in the name of the University as owner of the IPR. Inventors name will be filled in the application at appropriate places. All applications will be filed in India. Inventors will assign the exclusive right of ownership to the University in order to facilitate the University to file, secure and commercialize the IPRs without any encumbrance.
- II. Patent Co-Operation Treaty (PCT)application: For any patent which needs protection outside India, the procedure would be to first file a provisional patent in India and within 12 months, to file a PCT application alongwith an application for filing and Indian patent. This would be based on the recommendation of the IPR Cell. The PCT route is preferred, efficient and economical.
- III. The IPR Cell would meet the expenses i.e. the statutory fee and patent attorney's fee, for processing the patent applications.

IV. If an inventor decides to abandon or withdraw the application for a patent at some mid- stage of processing, prior approval of the IPR Cell is required.



SOME USEFUL INFORMATION ON PATENTS AND COPYRIGHT

1. What is Intellectual Property Right(IPR)

IPR is a general term covering patents, registered design, trademarks, copyright, and layout design of integrated circuits, trade secrets, geographical indicators and anti- competitive practices in contractual licenses.

2. What are the legislations covering IPRs in India?

Patents:

The Patents Act 1970. It has been amended in 2005 Ref Link: <u>http://www.ipindia.nic.in/ipr/patent/eVersion_ActRules/sections-index.htm</u>

Design:=:

The Design Act 2000 Ref.Link: http://www.ipindia.nic.in/ipr/design/design_act.PDF

Trademarks:

The Trade and merchandise Marks Act.1999 (amended in 2010) http://www.ipindia.nic.in/IPActs_Rules/tmrAct/TMRAct1999.htm

Copyright:

The Copyright Act, 1957 and Copyright rules 2013 Ref.Link: http://copyright.gov.in/Documents/CopyrightRules1957.pdf

Layout Design of Integrated Circuits: No Legislation exists.

3. Who are responsible for administration of IPRs in the country?

Patents, designs and trademarks are under the charge of the Controller General of Patents, Designs and Trademarks which is under the control of department of industrial Development, Ministry of Industry. Copyright is under the care of Ministry of human Resource Development.

4. What is a patent?

A patent is a legal monopoly which is granted for a limited time to the owner of an invention. Patent rights are granted by the state. Merely to have a patent does not give the owner the rights to use or exploit a patented invention: that right may still be affected by other laws such as health and safety regulation, or the food and drugs regulation or even by away, inherited, sold, licensed and can even be abandoned. As it is conferred by the state, it can be revoked by the state in certain cases even after grant, and world patent.

5. What is the distinction between patented invention and know-how?

The law does not require that the information disclosed in the patent specification be sufficient for commercial exploitation of the invention. Thus, a patent usually will not disclose sufficient information for commercialization.

Known-how on the other hand, covers all information necessary to commercialize the invention e.g. setting up a production plant. Such information would include for example, details of the production methods, the design drawings etc. It is this known-how developed around an existing patent and commercialized subsequently will be an infringement of the patent unless the patentee had agreed to commercialization on mutually agreed terms.

6. How is an invention interpreted?

To be patentable the invention must not only be novel but must involve an inventive step. An invention involves an inventive step if it is not obvious to a person 'skilled in the art' having regard to any matter which forms part of the state of the art but disregarding unpublished pending patent applications. Simplicity is not necessarily an objection for securing a patent. The means whereby the object is attained may be perfectly simple and common, yet there may be an inventive step if the inventor has developed a variant which will render more useful results as disclosed. It is immaterial whether the invention comes into existence by accident, but there must be some inventive step. whether or not it has been in the meantime sold or licensed. There is no such thing as What are patentable inventions under the patent Act, 1970?

Invention means any new and useful:

- a) Art, process, method or manner of manufacture
- b) Machines, apparatus or other article

c) Substances produced by manufacture, and include any new and useful improvements of any of them and an alleged invention. However, inventions claiming substances intended for use; or capable of being used, as food or as medicine of drug or relating to substances prepared or produced by chemical processes (including alloys, optical glass, semi-conductors and inter-metallic compounds) are not patentable.

7. How is the novelty of and invention determined?

The novelty is judged taking into consideration the knowledge available in India and elsewhere in the time of filling the application for a patent. In other words, the invention should not be known anywhere in the world prior to filing of the application for a patent.

8. What are the types of inventions which are not patentable?

- a. An invention which is frivolous or which claims anything obviously contrary to well established natural laws e.g. different types of perpetual motion or machines which violate the third law of thermo dynamics.
- b. An invention the primary or intended use of which be contrary to law or morality or injurious to public health e.g. a process for the preparation of a beverage which involves use of a carcinogenic substance, although the beverage may have higher nourishment value.
- c. The mere discovery of a scientific principle of formulation of an abstract theory e.g. Raman Effect.
- d. The mere discovery of any new property or new use of a known substance or the mere use of a known process, machine or apparatus unless such a known process results in a new product or employs at least one new reactant.
- e. A substance obtained by a mere admixture resulting only in the aggregation of the properties of the components thereof or a process for producing such substance.
- f. The mere arrangement or rearrangement or duplication of features of known devices each functioning independently of one another in a known way.
- g. A method or process of testing applicable during the process of manufacture for rendering the machine, apparatus or other equipment more efficient.
- h. A method of agriculture or horticulture.
- i. Any process for medicinal, surgical, curative, prophylactic or other treatment of human 'beings, or any process for a similar treatment of animals or plants.
- j. Invention relating to atomic energy

9. When should an application for a patent be filed?

Filing of an application for a patent should be completed at the earliest possible date and should not be delayed until the invention is fully developed for commercial working. An application filed with provisional specification disclosing the essence of the nature of the invention helps to register the priority by the applicant. Delay in filing an application may entail some risks like (i) other inventors might forestall the first inventor in applying for a patent for the said inventor (ii) there may be either an inadvertent publication of the invention by the inventor himself/herself or by others independently of him/her.

10. What are the essential patent documents to be generated and submitted by a potential patentee?

There are two types of patent documents usually known as patent specification namely

- I) Provisional specification
- II) Complete specification.

I) Provisional Specification:

A Provisional Specification is usually filed to establish priority of the invention incase the disclosed invention is only at a conceptual stage and a delay is expected insubmitting full and specific description of the invention. Although, a patent application accompanied with provisional application does not confer any legal rights to the applicants, it is, however, a very important document to establish the earliest ownership of an invention. It is essential to submit the complete specification within12 months from the date of filing the first application. This period is extendable by 3 months.

The provisional Specification is a permanent and independent scientific cum legal document and no amendment is allowed in this.

II) Complete Specification:

Submission of Complete Specification is necessary to obtain a patent. The contents of the specification would include information regarding the field to which the invention relates, background of the prior art giving drawbacks connected to the hitherto known details of the invention, the best mode of carrying out the invention and claimsdefining the scope of the invention. The contents of the complete specification should enable a reasonably skilled person in the art to work the invention without the help of the inventor.

11. What are the criteria for naming inventors(s)in an application for patent?

The naming of inventors is normally decided on the basis of the following criteria:

- I) All persons who contribute towards the development of patentable features of an invention should be named inventors(s)
- II) All persons who have made intellectual contribution in achieving the final results of the research work leading to a patent, should be named inventor(s)
- III) A person who has not contributed intellectually in the development of an invention is not entitled to be included as an inventor
- IV) A person who provides ideas needed to produce the germ of the invention'' need not himself/herself carry out the experiments, construct the apparatus with his/her own hands or make the drawing himself/herself. The person may take the help of others. Such persons who have helped in conducting experiments, constructing apparatus or making the drawings of models without providing any intellectual inputs are notentitled to be named inventors.

Quite often difficulties are experienced in deciding the names of inventors. To avoid such a situation, it is very essential that all scientists engaged in research should keep a factual, clear and accurate records of daily work done by them in the form of a diary. The pages in the diary should be consecutively numbered and the entries made should be signed both by the scientists and the concerned leader.

12. Can a published or disclosed invention be patented?

NO. Publication or disclosure of the invention anywhere by the inventor before filing of a patent application would disqualify the invention to be patentable. Hence inventors should not disclose their inventions before filing a patent application. If published after filing of the patent application, the number and date of the patent application should be given by way of information to public.

13. What is considered the date of patent?

The date of patent is the date of filing the complete specification. This is an important date because it is from this date that the legal protection of an invention covered in the patent takes effect. The term of the patent is counted from this date

14. What is the term of a patent in Indian system?

Term of every patent in India is 20 years from the date of filing of patent application, irrespective of whether it is filled with provisional or complete specification. However, in case of applications filed under PCT the term of 20 years begins from International filing date

15. How does one keep a patent in force for the full patent terms?

A patent has to be renewed from time to time by paying the prescribed renewal fees. If the patent is not renewed, it will cease to remain in force and the invention becomes open to public.

16. What is expected from a patentee?

A patentee must try to ensure that the patent is worked in India on a commercial scale and without undue delay. The patent is not granted to allow the patentee to enjoy a monopoly for the importation of the patented article. In other words, a patentee cannot sit over an invention and block the use of that invention.

17. What is the nature of information needed while consulting a patent attorney?

• An explanation of the history of the invention, where you got the idea from, how you developed it, any early failures and possible prototypes, with all your laboratory note books, etc., if possible. This will help the patent agent to explain the inventive step which is necessary to establish to obtain the patent, and it also increases his or her understanding of the invention so as to maximize the skill with which he or she can draft claims and specifications for it.

- What you think is the central part of it, the most inventive element or most useful aspect, together with what other similar prior inventions you know of or have developed the idea from an improved upon. If you have developed an improved version of your competitor's products, admit it, be totally honest. It is vital to be such so that the patent agent can define your invention properly in making the application and avoid excessive claims which might be struck down
- A detailed description of the best way of putting the invention into practical use, results of your tests and trials, etc., including all the failures and defects.
- Alternative ways of using the invention, and the substitutes for parts of it i.e. will one chemical compound do as well as any other in the process, is there an optimum size, etc. it may be worth drafting the patent widely enough to cover less satisfactory alternatives_ if this is possible- to prevent rivals from marketing a less satisfactory competing product which because of its defects might bring the whole genre of product into disrepute.
- Both after an initial search and during the course of the patent application it isimportant to respond quickly and accurately to queries which the patent agent may have, to help patent application on the way and to save you money. Thus the client should in particular keep the patent agent informed of any new developments or improvements or other changes made to the invention and any rivals which appear etc.

18. What are the different types of work covered under copyright?

Copyright covers:

- I) Literary, dramatic and musical work. Computer programmes/softwareare covered within the definition of literary work.
- II) Artistic work.
- III) Cinematographic film includes sound track and video film.
- IV) Record- any disc, tape, perforated roll or other device.

19. What are the rights of a copyright holder (which when violated lead to infringement)?

- a) In the case of literary, dramatic or musical work, not being a computer programme:
 - I. To reproduce the work in any material form including the storing of it in any medium by electronic means
 - II. To issue copies of the work to the public not being copies already in circulation
 - III. To perform the work in public, or communicate it to public
 - IV. To make any cinematograph film or sound recording in respect of the work
 - V. To make any translation of the work
 - VI. To do, in relation to a translation or an adaptation of the work, any of the acts specified in relation to the work in sub-clauses (i) to(vi)
- b) In the case of computer programme:
 - i) To do any acts specified in clauses(a)
 - ii) To sell or give on hire, or offer for sale or hire any copy of the computer programme, regardless of whether such copy has been sold or given n hire on earlier occasions

- c) In the case of an artistic work-
 - I. To produce the work in any material form including depiction in three dimensions of a two dimensional work or in two dimensions of the dimensional work.
 - II. To communicate the work to the public
 - III. To issue copies of the work to the public not being copies already in circulation
 - IV. To include the work in any cinematograph film
 - V. To make any adaptation of the work
 - VI. To do in relation to an adaptation of the work, all of the acts specified in relation to the work in sub-clauses(i) to(iv)
- d) In the case of a cinematograph film
 - I. To make a copy of the film including a photograph of any image forming part thereof
 - II. To sell or give on hire or offer for sale or hire, any copy of the film, regardless of whether such copy has been sold or given on hire on earlier occasions
 - III. To communicate the film to the public
- e) In the case of sound recording
 - I. To make another sound recording embodying it
 - II. To sell of give on hire, or offer for sale of hire, any copy of the sound recording, regardless of whether such copy has been sold or given on hire on earlier occasions
 - III. To communicate the sound recording to the public Explanation:- For the purpose of this section, a copy which has been sold once shall be deemed to be a copy already in circulation

20. How is computer defined for the purpose of copyright?

Computer includes any electronic or similar device having information processing capabilities.

21. What is the definition of a computer programme?

Computer programme means a set of instruction expressed in words, codes, schemes or any other form, including a machine readable medium, capable of computer to perform a particular task or achieve a particular result

22. What is the term of a copyright?

- a) If published within the life time of the author of a literary work the term is for the life of the author plus 60 years.
- b) For cinematographic films, records, photograph, posthumous publication, anonymous publication, works of government and international agencies the term is 60 years from the beginning of the calendar year following the year in which the work was published.
- c) For broadcasting the term is 25 years from the beginning of the calendar year following the year, in which the broadcast was made.



SALIENT FEATURES OF IPR AND SERVICES PROVIDED BY IPR CELL

IPR Policy:

IPR is a general term covering patents, registered design, trade-marks, copyright, and layout design of integrated circuits, trade secrets, geographical indicators and anti-competitive practices in contractual licenses

The Intellectual Property could be protected in the form of:

Patent (to be registered),

Industrial design (to be registered),

Trademark (registered or otherwise),

Copyright (registered or otherwise) (in the form of plans, specifications, guidelines, graphics, training materials, software programs, records, drawings, instruction guides, student materials, new techniques, algorithms, concepts Confidential Information, Technical know-how, Mask works, Process)

Intellectual Property (IP): is an intangible knowledge and shall mean and include – all results, conclusions, deductions, inventions, ideas, improvements, discoveries, enhancements, solutions, processes, modifications, know-how, data and information of every kind and description conceived, generated, made, or reduced to practice as the case may be, designs, software programmes, genetically engineered microorganisms, business models and copyrightable work-resulting from the intellectual output of the faculty, staff, students, research scholars and other employees of the University.

IP is, thus, an outcome of the University supported research or sponsored research, industrial consulting or other forms of joint research and development work.

Although, a patent application accompanied with provisional application does not confer any legal rights to the applicants, it is, however, a very important document to establish the earliest ownership of an invention.

Exceptions for Patent: However, inventions claiming substances intended for use; or capable of being used, as food or as medicine of drug or relating to substances prepared or produced by

chemical processes (including alloys, optical glass, semi-conductors and inter-metallic compounds) are not patentable.

Whether Patent can be revoked: As it is conferred by the state, it can be revoked by the state, it can be revoked by the state in certain cases even after grant, and whether or not it has been in the meantime sold or licensed.

Contest / Conflict with sponsoring agency: Where the sponsoring agency is not forthcoming for filing joint IPR application, the University, at its discretion, may file the application with the absolute ownership and will meet the entire cost of securing and protection of IPR. Copyright: Patent seeks to protect the applied and extension research; the law of copyright seeks to protect pure or basic research.

If the intellectual property is an outcome of joint research undertaken by the University personnel with external organizations /agencies/individuals, the IP will be owned jointly by the University and the collaborators.

In case of joint ownership, the University will offer the first right to commercially exploit the joint IP, whether or not the same has been formally protected by patent(s). **IP Counselling:** IPR cell will counsel and interact with inventors of potential intellectual products and assist the University in identifying the IPR potentials.

In case the Cell recommends for filing of patents, the Convener, IPR Cell will process the application through one of the approved attorneys from the panel maintained at the IPR Cell.

If any copyrightable work is produced during the course of any sponsored /or collaborative activity, the ownership of copyright will be determined either according to the terms and conditions (related to IP) specified in the contract, if any, governing such activity or through mutual consultations and agreement with the sponsoring/collaborating agency.

Services from the Cell can be availed by: All the faculty members, staff, students, research scholars (Internal and External), visiting scientists, professors and other professionals who are hired either on full-time basis part-time basis.GLA, has set in place, systems and mechanisms to structure the process of commercial exploitation of the knowledge generated at GLA under the provisions of IPR regime in the country.

Services provided by the IPR Cell: Both after an initial search and during the course of the patent application it is important to respond quickly and accurately to queries which the patent agent may have, to help patent application on the way and to save you money.

The cell shall periodically recommend patentable technologies to potential licensing agencies, CII, and other Financial Institutions to invest in venture capital towards the new technologies.

Ahadlea

Dean (Reaserch & Development) GLA University, Mathura-281406

List of Patents Published/ Granted in the Calendar Year 2020

Sr. No.	Name of the Patenter/ Applicant	Title of the Patent	Name of Inventors	Name of Departments	Patent Application No.	Status	Date of Filing	Date of Publication	Grant Date
1	NewGen IEDC, GLA University, Mathura	MEDI AMBULANCE	Mr. Deepak sharma Dr. Kamal Sharma Mr. Nitin kukreja Dr. Manoj kumar Mr. Abhinav mishra Mr. Abhinav sharma Mr. Abhishek Vashisth Mr. Mr. Harendra Singh Mr. Vineet Sinha Mr. Jitendra yadav Mr. Yogesh Jain	MECHANICAL ENGINEERING	202011015677	FER Filed	10.04.2020	15.05.2020	
2	NewGen IEDC, GLA University, Mathura	ENERGY HARVESTING FROM FAR FIELD RF SIGNAL	Dr. Vishal goyal Dr. Vilas H gaidhane Dr. Aasheesh Shukla Mr. Rohit yadav Ms. Sakshi agrawal	ELECTRONICS & COMM. ENGINEERING	202011014385	Granted	30.03.2020	22.05.2020	
3	NewGen IEDC, GLA University, Mathura	OPTIMIZED INBUILT PNEUMATIC JACK	Mr. Manoj agarwal Mr. Ritesh Dixit Mr. Kaushal K Bhardwaj Mr. Bipin Chaudhary Mr. Subhankar das	MECHANICAL ENGINEERING	202011006106	FER Filed	12.02.2020	15.05.2020	
4	NewGen IEDC, GLA University, Mathura	I-COS (IGNITION CUT OFF SYSTEM)	Dr. Vijay kumar Dwivedi Mr. Rajat yadav Mr. Moazzam mahmood Dr. Kamal Sharma Mr. Ritesh kumar dixit	MECHANICAL ENGINEERING	201911054343	Granted	28.12.2019	10.01.2020	31.12.2020
5	NewGen IEDC, GLA University, Mathura	ECO GAP FILLER	Mr. Prabal pratap singh Mr. Kuwar mausam Mr. Raghav rohatgi	Chemistry	201911054344	Granted	28.12.2019	10.01.2020	25.11.2020
6	NewGen IEDC, GLA University, Mathura	SMART VEGETABLE CUTTER	Mr. Deepak Mangal Mr. Saurabh singhal Mr. Shubhanjay tiwari Mr. Tanya singh Mr. Dr. Kamal Sharma	COMPUTER ENGINEERING & APPLICATION	201911054346	Granted	28.12.2019	10.01.2020	
7	GLA University, Mathura	A TOOL GRINDING FIXTURE	Dr. Vijay kumar Dwivedi Mr. Shahabuddin Mr. Moazzam mahmood Dr. Kamal Sharma	MECHANICAL ENGINEERING	201911052914	FER Filed	19.12.2019	03.01.2020	
8	NewGen IEDC, GLA University, Mathura	UNDERWATER ROBOTIC VEHICLE	Dr. Kamal Sharma Dr. Debonik roy Dr. Vishal goyal Dr. Manish saraswat Mr. Nitin kukreja Mr. Mr. Himanshu baghel Mr. Toshit Jain Mr. Mudit sehgal Mr. Shrey saraswat	MECHANICAL ENGINEERING	201911052868	Granted	19.12.2019	03.01.2020	

			Mr. Deepak sharma						
			Mr. Nitin kukreja						
			Mr. Manoj kumar						
			Mr. Akash jain						
9	NewGen IEDC, GLA	SMART BIRD	Mr. Amit chaturvedi	MECHANICAL ENGINEERING	201911052365	Granted	17.12.2019	03.01.2020	
	University, Mathura		Mr. Chirag raipoot						
			Mr. Harsh varshnev						
			Mr. Deenak nal						
			Mr. Sunil sharma						
			Dr. Kamal Sharma						
			Mr. Toshit jain						
			Mr. Nitin kukrein						
10	NewGen IEDC, GLA	WEIGHT-AUTOMATIC-KEV	Dr. Manich caractuat	MECHANICAL ENGINEERING	201011052366	FFR Filed	17 12 2010	03 01 2020	
10	University, Mathura	WEIGHT-AUTOMATIC-KET	Mr. Aman unadhuau	MECHANICAL ENGINEERING	201711052500	r EK rneu	17.12.2017	03.01.2020	
			MI. Allali upauliyay						
			Dr. Man ai human						
			DI. Malloj Kullial Mr. Cauray bhardwai						
	NowCon IEDC CLA	ΑΠΤΟΜΑΤΙς ΤΟΠ ΕΤ ΣΕΑΤ ΜΠΤΗ ΑΠΤΟ	Mr. Augh gogwami						
11	NewGell IEDC, GLA	FUCH	Mr. Ayush goswalli	MECHANICAL ENGINEERING	201911052367	Granted	17.12.2019	03.01.2020	
	University, Mathura	FLUSH	Mr. Snubham agarwai						
			Mr. Kapii sharma						
10	NewGen IEDC, GLA	DISTILLATION BASED WATER	Dr. Naveen kumar gupta	MECHANICAL ENCINEEDING	201011052260	Countral	17 12 2010	02 01 2020	11 12 2020
12	University, Mathura	PURIFICATION SYSTEM	Mr. Kaustubn srivastava	MECHANICAL ENGINEERING	201911052500	Granteu	17.12.2019	03.01.2020	11.12.2020
		AOUA AID EIVTUDE EOD EDICTION STID	Mr. Ashish tripathi						
13	GLA University, Mathura	WELDING	Mr. Shahabuddin	MECHANICAL ENGINEERING	201811049186	Granted	26.12.2018	15.02.2019	27.10.2020
		WELDING	Dr. Kamal Sharma						
			Dr. Dobonik rov						
			Mr. Toshitioin						
			MI. TOSHIL Jahl						
	NowCon IEDC CLA		Dr. Manich careguet						
14	Newdell IEDC, dLA	FIRE FIGHTING ROBOT	DI. Mallisli Salaswat	MECHANICAL ENGINEERING	201911052233	FER Filed	17.12.2019	03.01.2020	
	University, Mathura		Mr. Niun kukreja Mr. Abbirger bergel						
			Mr. Abhinan Mishar						
			Mr. Abninav Mishra						
			Mr. Ram chandra dixit						
			Mr. Bhuvnesh gautam						
			Dr. Raddoon luman singh						
			Dr. Maniah annanyat						
	NowCon IEDC CLA		Dr. Manish saraswat						
15	NewGen IEDC, GLA	AUTOMATIC BICYCLE SUPPORTERS	Mr. Chitranshu saxena	MECHANICAL ENGINEERING	201911052234	FER Filed	17.12.2019	03.01.2020	
	University, Mathura		Mr. Prajjwal chaurasia						
			Mr.Anurag singh						
			Mr.Himanshu senger						
			Mr. 1 rivenara sengar						
	NowCon JEDC CLA		DI. KUIUGEP KUIIIAF SAXENA Mr. Nilehil sharma						
16	Newgell IEDC, GLA	VACUUM FLUSHING SYSTEM	Mr. Anomika nondo-	MECHANICAL ENGINEERING	201911050613	FER Filed	07.12.2019	03.01.2020	
	University, Matnura		Mr. Amanika pandey						
			Mr. Arpan snukia						
			DI. FIYUSH SHIghal Ma Nitia kulmoia						
17	CI A University Mathematic	FOUR WHEEL STEERING MECHANISM FOR	Mr. Nittin Kukreja Mr. Ditach divit	MECHANICAL ENGINEEDING	201011012001	Courted	05 04 2010	10.01.2020	
17	GLA University, Mathura	VEHICLES	Mr. Ritesh dixit	MECHANICAL ENGINEERING	201911013881	Granted	05.04.2019	10.01.2020	
			Mr. Deepak nirankari						
			Mr. Nitin kulmaia						
			Dr. Monoi lumor						
			Dr. Malloj Kullal						
10	NewGen IEDC, GLA	AN ADAPTER BASED ON	Dr. Fiyusii siligildi Dr. Kamal Sharma	MECHANICAL ENCINEEDING	201011000004	FFD Loguad	07 02 2010	02 01 2020	
10	University, Mathura	THERMOELECTRIC GENERATOR	Di. Kamai Sharma	MECHANICAL ENGINEERING	201911008894	FER ISSUED	07.03.2019	03.01.2020	
			Mr. Deepak nirankari						
			Mr. Muhib khan						
			MI. Shrey varunan singn						
	NowCon JEDC CLA		DI. POUJA PAUJAK Dr Vijav Kr. Dwivodi						
19	Newgell IEDC, GLA	SMART CAR IGNITION SYSTEM	Ma Duia	MATHEMATICS	202011025401	FER Filed	17.06.2020	21.08.2020	
	oniversity, Mathura		Ms.ruja Ms. Bitach Divit	MAINEMAILS					
			MIL RICESH DIXIC			1			

			Mr. Prakhar Maheshwari						
20	GLA University Mathura	SMART AUTOMATIC STREET LIGHT	Ms. Monika Agrawal	ELECTRONICS & COMM.	202011025403	Granted	17.06.2020	21.08.2020	
20	dea oniversity, Mathura	SMART AUTOMATIC STREET EIGHT	Dr. Vishal Goyal	ENGINEERING	202011025405	dianteu	17.00.2020	21.00.2020	
			Dr. Vinay Kumar Deolia						
			Mr. Utkarsh Goyal						
21	GLA University, Mathura	SYNCHROMESH CLUTCH BOX	Dr. Kamal Sharma	MECHANICAL ENGINEERING	202011025487	FER Filed	17.06.2020	21.08.2020	
			Mr. Ritesh Dixit						
	NewGen IEDC. GLA		Ms. Sonia Singh	INSTITUTE OF					
22	University, Mathura	BUTTER GHEE SEPARATOR	Mr. Bhupesh C.Semwal	PHARMACEUTICAL RESEARCH	202011030132	Published	15.07.2020	18.09.2020	
			Dr. Piyush Singhal						
		LOW LUBRICATING OIL CUTOFF IGNITION	Mr. Harish Kumar Sharma		000044004480				
23	GLA University, Mathura	SYSTEM	Mr. Nitin Kukreja	MECHANICAL ENGINEERING	202011026452	FER Filed	23.06.2020	21.08.2020	
			Dr. Kamal Sharma						
			Mr. Amitesh Kumar Pandey						
24	NewGen IEDC, GLA	FURCED SULAR DRYER WITH PHASE	Mr. Chandrakesh Singh	MECHANICAL ENGINEERING	202011025402	FER Issued	17.06.2020	21.08.2020	
	University, Mathura	CHANGING MATERIAL (PCM)	Mr. Ashu Verma						
			Dr. Sujit Kr Verma Ma Dahini Sharma						
		AUTOMATIC VOLUMETRIC WATER	MS KOIIIIII Siidi IIid						
25	GLA University, Mathura	AUTOMATIC VOLUMETRIC WATER	Dr. Diwakar Bhardwaj	UNIVERSITY POLYTECNIC	202011025404	Published	17.06.2020	21.08.2020	
		FILLING TAP	Auitya Goswallii Dr. Vilcas Kumar Sharma						
			Mr. Rishabh Johari						
			Mr. Saurabh Kumar						
		OUADRUPED SPIDER ROBOT WITH RADAR	Dr. Aasheesh Shukla	ELECTRONICS & COMM					
26	GLA University, Mathura	SYSTEM ENABLED	Dr. Manish Agrawal	ENGINEERING	202011025405	FER Filed	17.06.2020	21.08.2020	
			Dr Atul Bansal						
			Dr. Vinav Kumar Deolia						
			Mr. Yogendra Kumar						
			Ms. Susmita Pramanik						
27	GLA University, Mathura	LATRINE WITHOUT WATER	Mr. Dipak kumar Das	CHEMISTRY	202011033080	Published	01.08.2020	18.09.2020	
			Dr. Panchanan Pramanik						
			Mr. Rohit Sharma						
	1. GLA UNIVERSITY	UV-C INVERTIBLE DOUBLE DECK MESH	Dr. Kamal Sharma						
28	2 . MNNIT ALLAHABAD	CONVEYOR DISINFECTION SYSTEM	Dr. Mukul shukla	MECHANICAL ENGINEERING	202011020533	FER Issued	15.05.2020	14.08.2020	
	3 . HIND MECHATRONICS		Mr. Bhupender Singh Yadav						
			Mr. Raghav Rohatgi						
29	GLA University. Mathura	PLASTIC INK	Mr. Nitin Kukreja	MECHANICAL ENGINEERING	202011030866	Published	20.07.2020	25.09.2020	
			Mr. Kuwar Mausam						
			Dr. Prabal Pratap Singh						
		A ML BASED BCI SYSTEM FOR TRAINING	Mr. Ashutosh Shankhdhar	COMPLITED ENCINEEDING 8					
30	GLA University, Mathura	AND ENABLING APHONIC PATIENT FOR	Mr. Suyash Dixit	COMPUTER ENGINEERING &	202011030624	Published	17.07.2020	25.09.2020	
	-	EFFECTIVE COMMUNICATION	Mr. Arushi Mangala	APPLICATIONS					
		ARTIFICIAL INTELLICENCE BASED	mi . misnuna Gupta						
		AUTOMATED STERFOTACTIC	Dr. Binlah Sarkar						
31	GLA University, Mathura	RADIOTHERAPY AND RADIOSURGERV	Dr. Anirudh Pradhan	MATHEMATICS	202011040617	Published	19.09.2020	23.10.2020	
		TREATMENT PLAN	pr. min udii i i dunan						
			Ms. Suzanne Sharma						
0.0	NewGen IEDC, GLA		Ms. Anju Upadhyay		000044004005		00.05.0000	05 00 0000	
32	University, Mathura	SI PHASE LOCATOR	Dr. Diwakar Bhardwaj	UNIVERSITY POLYTECNIC	202011031305	FER Issued	22.07.2020	25.09.2020	
	· · · · ·		Dr. Vikas Kumar Sharma						
			Mr. Ajit Singh						
	NowCon JEDC CLA	SOLAD DISTILLATION WITH INSTALLED	Mr. Ashish Pal						
33	Newgen IEDC, GLA	DUASE CHANCE MATEDIAL	Mr. Atishay Jain	MECHANICAL ENGINEERING	202011033079	FER Filed	01.08.2020	25.09.2020	
	oniversity, Mathura	I HASE CHANGE MATERIAL	Mr. Karan Sharma						
			Dr. Sujit Kr Verma						
		AN IOT AND BLOCKCHAIN BASED SMART	Dr. Debjani Ghosh	COMPUTER ENGINEERING &					
34	GLA University, Mathura	SALINE LEVEL MONITORING SYSTEM	Mr. Ankit Agrawal	APPLICATIONS	201911022558	Published	07.06.2019	31.07.2020	
			Dr. Anand Singh Jalal	In LEGATIONS					
		FOOT OPERATED WASHING STATION							
35	GLA University, Mathura	WITH ATTENDANCE AND TEMPERATURE	Dr. Vijay Kumar Dwivedi	MECHANICAL ENGINEERING	202011024340	Published	10.06.2020	21.08.2020	
		RECORDING (FOWS-ATR)	Dr. Pooja Pathak						

			Mr. Ajitesh Kumar						
			Dr. Anand Singh Jalal						
36	GLA University, Mathura	SMART AUTOMATIC MEDICINE DISPENSER	Mr. Manish Kumar	COMPUTER ENGINEERING &	202011038247	Published	04.09.2020	16.10.2020	
	5.		Mr. Harsh Jain	APPLICATIONS					
			Mr. Naman Mittal						
		AN ADAPTIVE. ENERGY EFFICIENT AND							
		ENERGY BALANCED DATA GATHERING	Ms. Jagrati Kulshrestha	COMPUTER ENGINEERING &					
37	GLA University, Mathura	APPROACH FOR WIRELESS SENSOR	Dr. Manas Kumar Mishra	APPLICATIONS	202011033881	FER Issued	07.08.2020	25.09.2020	
		NETWORKS							
			Dr. Kamal Sharma						
			Dr. Debanik Roy						
		A MECHANICAL GRIPPER WITH	Mr. Rohit Sharma						
38	GLA University, Mathura	CONTROLLED OPERATIONS FOR ROBOTIC	Mr. Anas Islam	MECHANICAL ENGINEERING	202011036215	Granted	22.08.2020	09.10.2020	
		ARC WELDING	Mr. Aman Sharma						
			Mr. Rishabh Chaturvedi						
			Mr. Deenak Mangal						
			Dr. Dilin Kumar Sharma						
39	GLA University, Mathura	A SYSTEM FOR AUTOMATIC COUNTING,	Dr. Kamal Sharma	COMPUTER ENGINEERING &	202011036216	Published	22.08.2020	09 10 2020	
0,7	azii enii ereity, maanara	SCANNING AND TAGGING OF LUGGAGE	Mr. Shubbaniay Tiwari	APPLICATIONS	202011000210	rubhbheu	110012020	0,11012020	
			Mr. Tanay Singh						
			Dr. Kamal Sharma						
			Dr. Vijav Kumar Dwivedi						
40	GLA University Mathura	A DRUM DRIER FOR OPTIMAL	Mr Rohit Sharma	MECHANICAL ENGINEERING	202011037415	Granted	31.08 2020	09.10.2020	
10	diff oniversity, Mathara	PREHEATING OF PLASTIC SCRAP	Mr. Anas Islam		202011037113	dranteu	51.00.2020	05.10.2020	
			Mr. Parvez Alam						
			Mr. Abhinay Kumar Dhusia						
			Mr. Trivendra Sengar						
			Mr. Vaibhay Goval						
41	GLA University, Mathura	LAND SLIDE ROBOTIC DRONE	Mr. Swaraj Chaturvedi	MECHANICAL ENGINEERING	202011037418	Published	31.08.2020	09.10.2020	
			Mr. Ishita Goel						
			Mr. Prashant Kumar						
			Mr. Aiitesh Kumar						
			Dr. Anand Singh Ialal						
42	GLA University Mathura	SMART SEWAGE WORKERS SAFETY	Ms Mona Kumari	COMPUTER ENGINEERING &	202011035704	Published	19.08.2020	09 10 2020	
12	diff oniversity, Mathara	MONITORING SYSTEM	Ms Dolly	APPLICATIONS	202011035701	rubhisheu	19.00.2020	05.10.2020	
			Mr. Saurahh Tyagi						
			Mr. Aiitesh Kumar						
			Dr. Anand Singh Ialal						
			Dr. Manoi Kumar	COMPUTER ENGINEERING &					
43	GLA University, Mathura	A SMART WHEEL CHAIR	Ms. Pratiksha Rawat	APPLICATIONS	202011037416	FER Filed	31.08.2020	09.10.2020	
			Mr. Tanui Iohal						
			Mr. Manish Chahar						
			Dr. Anand Singh Jalal						
		IOT BASED GREASE TRAP FOR KITCHEN	Dr. Vijay Kumar Dwivedi	COMPUTER ENGINEERING &	000044000040		04.00.0000	1 (10 0000	
44	GLA University, Mathura	SINKS (IBGTKS)	Dr. Pooja Pathak	APPLICATIONS	202011038249	Published	04.09.2020	16.10.2020	
			Mr. Ajitesh Kumar						
		IOT ENABLED HOLDING DEVICE FOR	Dr. Pooja Pathak						
45	GLA University, Mathura	URINE BAG & LIQUID INFUSION FOR	Dr. Vijay Kumar Dwivedi	MATHEMATICS	202011038401	Published	05.09.2020	16.10.2020	
	-	PATIENT	Mr. Deepak Mangal						
		IN-SILICO DESIGN OF THE (S)-(4-((4-((4							
		CHLOROPHENYL) (PHENYL) METHYL)							
		PIPERIDIN-1-YL) METHYL) PHENYL)	Dr. Somdutt Muiwar						
1.6	CLA University Methure	METHANETRIAMINE MOLECULE AS AN	Dr. Kamal Shah	INSTITUTE OF	202011020010	Dubliched	00 00 2020	16 10 2020	
40	GLA University, Mathul'a	ISOLEUCYL-TRNA SYNTHETASE	Dr. Rohitas Doshmulth	PHARMACEUTICAL RESEARCH	202011030019	rubiisiieu	09.09.2020	10.10.2020	
		INHIBITOR FOR THE MUPIROCIN	DI. Rollitas Desilillukli						
		RESISTANT STAPHYLOCOCCUS AUREUS							
		BACTERIA							
		TOPICAL DOSAGE FORM OF APREMILAST	Dr. Rohitas Deshmukh	INSTITUTE OF					
47	GLA University, Mathura	FOR MANAGING OCULAR HYPERTENSION	Dr. Swarnali Das Paul	PHARMACEUTICAL RESEARCH	202011034083	Granted	08.08.2020	25.09.2020	
			2						
			Mr. Gaurav Bharadwaj						
48	GLA University Mathura	AUTOMATIC WATER DISPENSER	Dr. Kamal Sharma	MECHANICAL ENGINEERING	202011050121	Published	18.11.2020	11.12.2020	
10	ant oniversity, mathala		Mr. Ayush Goswami	and official Engineering	202011030121	i ubiisiicu	10.11.2020	11.12.2020	
			Mr. Shubham Agrawal						

49	GLA University, Mathura	DESTRUCTION OF PHOSPHOR LIPIDS BY METAL SALT TO ACT AS DISINFECTANT	Mr. Susmita Pramanik Mr. Dipak K Das Dr. Panchanan Pramanik	CHEMISTRY	202011037417	Published	31.08.2020	09.10.2020	
50	GLA University, Mathura	HEALTH TRACKER (FITNESS BAND) FOR MINES WORKER	Dr. Diwakar Bhardwaj Ms. Rohini Sharma Mr. Aditya Goswami	UNIVERSITY POLYTECNIC	202011038818	FER Filed	09.09.2020	16.10.2020	
51	GLA University, Mathura	DECISIVE GUN WITH AUDIO RECORDER, GPS AND STATIC GRIP RECOGNITION	Dr. Diwakar Bhardwaj Mr. Aditya Goswami Dr. Vikas Kumar Sharma	UNIVERSITY POLYTECNIC	202011038399	Published	05.09.2020	16.10.2020	
52	GLA University, Mathura	PORTABLE VACUUM FLASK BATTERY CHARGER	Dr. Diwakar Bhardwaj Ms. Rohini Sharma Mr. Aditya Goswami Dr. Vikas Kumar Sharma Dr. Vinay Tomar Mr. Raj kumar	UNIVERSITY POLYTECNIC	202011037798	Published	02.09.2020	16.10.2020	
53	GLA University, Mathura	ELECTROCHEMICAL SYNTHESIS OF GRAPHENE OXIDE (GO)/ REDUCED GRAPHENE OXIDE (RGO) BY USING EXTERNALLY APPLIED HIGH VOLTAGE (DC VOLTAGE)	Mr. Pankaj Kumar Singh Dr. Pradeep Kr. Singh Dr. Arun Kumar Tiwari Dr. Kamal Sharma	MECHANICAL ENGINEERING	202011039288	FER Filed	11.09.2020	16.10.2020	
54	GLA University, Mathura	ELECTROCHEMICAL SYNTHESIS OF GRAPHENE OXIDE (GO)/ REDUCED GRAPHENE OXIDE (RGO) BY USING EXTERNALLY APPLIED MAGNETIC FIELD	Mr. Pankaj Kumar Singh Dr. Pradeep Kr. Singh Dr. Arun Kumar Tiwari Dr. Kamal Sharma	MECHANICAL ENGINEERING	202011038248	Granted	04.09.2020	16.10.2020	
55	GLA University, Mathura	SMART BLIND STICK	Dr.Diwakar Bharadwaj Dr.Vikash Kumar Sharma Ms.Anju Upadhyay Mr.Hariom	UNIVERSITY POLYTECNIC	202011038817	FER Filed	09.09.2020	16.10.2020	
56	GLA University, Mathura	ATAZANAVIR NANOCRYSTAL FORMULATION	Dr. Rohitas Deshmukh Dr. Swarnali Das Paul	INSTITUTE OF PHARMACEUTICAL RESEARCH / SSTC-SSGI- FPS.Junwani,Bhilai,CG,490020	202011038816	Granted	09.09.2020	16.10.2020	
57	GLA University, Mathura	CAMLESS FOUR STROKE ENGINE USING SOLENOIDAL VALVES	Dr. Diwakar Bhardwaj Dr. Vikash Kumar Sharma Mr. Aditya Goswami Ms. Rohini Sharma Mr. Rajkumar Singh	UNIVERSITY POLYTECNIC	202011038400	Published	05.09.2020	16.10.2020	
58	GLA University, Mathura	INNOVATIVE HOME FOR HANDICAPPED PEOPLE	Dr. Diwakar Bhardwaj Dr. Vikas Kumar Sharma Mr.Hariom Mr.Aman Srivastava Mr.Atul Kumar Singh	UNIVERSITY POLYTECNIC	202011037799	Published	02.09.2020	16.10.2020	
59	GLA University, Mathura	A DEVICE AND A SYSTEM TO DETECT AND REMOVE THE PIPE BLOCKAGE	Dr. Kamal Sharma Mr. Pranay Pushp Mr. Tarun Grover	MECHANICAL ENGINEERING	202011037419	Published	31.08.2020	09.10.2020	
60	GLA University, Mathura	LOW COST PATCH COMPRISING HERBAL MOSQUITO REPELLANT	Anuj Garg Dr. Debapriya Garabadu Hitesh K. Dewangan Dr.Ahsas Goyal	INSTITUTE OF PHARMACEUTICAL RESEARCH	202011039289	Granted	11.09.2020	16.10.2020	
61	GLA University, Mathura	CYANAMIDE DERIVED FE-NX CORE-SHELL NANOARCHITECTURE AS SUPERIOR ORR ELECTROCATALYST FOR FUEL CELL APPLICATIONS	Anuj Kumar Vinod Kumar Vashistha Dipak Kumar Das	CHEMISTRY	202011042665	Published	01.10.2020	06.11.2020	
62	GLA University, Mathura	MULTIPURPOSE METALLIC COVER KEEPER	Mr. Ankur Gupta Mr. Saurabh Dubey D.r Nakul Gupta	CIVIL ENGINEERING	202011043629	Published	07.10.2020	06.11.2020	
63	GLA University, Mathura	A POWER BLOCKAGE REMOVAL WATER TAP	Dr Somesh Dhamija Dr. Aruna Dhamija Dr. Deepika Pandoi Dr Kamal Sharma Mr. Rohit Sharma	INSTITUTE OF BUSINESS MANAGEMENT	202011042666	FER Filed	01.10.2020	06.11.2020	

			Mr. Deepak Mangal						
64	GLA University, Mathura	IOT BASED SMART GAS REGULATOR	Mr. Saurabh Singhal	COMPUTER ENGINEERING &	202011043402	Published	06.10.2020	06.11.2020	
			Mr. Priyanshu Pathak	APPLICATIONS					
			Mr. Adnisnek Srivastav						
		METAL SPECIFIC AUTOMATIC RPM	Dr. Vikas Kumar Sharma						
65	GLA University. Mathura	CONTROL BELT GRINDER WITH SURFACE	Mr. Yogendra Kumar	UNIVERSITY POLYTECNIC	202011043401	FER Filed	06.10.2020	06.11.2020	
		FINISHING GRADE DETECTOR	Mr. Aditva Gautam						
			Mr. Aditya Goswami						
		AUTOMATED MANUALE COVED TO	Mr. Pankaj Sonia						
	CLA University Mathema	AUTOMATED MANHULE COVER TO	Dr Piyush Singhal	MECHANICAL ENCINEEDING	202011045(0)	Countral	20 10 2020	0(112020	
00	GLA University, Mathura	IN DAINY SESSION	Dr Jinesh Kumar Jain	MECHANICAL ENGINEERING	202011045000	Granteu	20.10.2020	00.11.2020	
		IN KAINT SESSION	Mr. Rohit Sharma						
		PNEUMATIC RECIPROCATING AND	Mr. Notan kumar						
67	GLA University, Mathura	ROTATING MACHINE	Dr. Vikas Kumar sharma	UNIVERSITY POLYTECNIC	202011048139	Granted	04.11.2020	11.12.2020	
			Dr. Diwakar Bharadwaj						
		AUTOMATIC DODTADI E VELUCI ES AND	Mr. Notan Kumar						
68	GLA University, Mathura	HOME OUTDOOD EUDNITUDE WASHED	Dr. Vikas Kumar Sharma Dr. Diwakar Pharadwai	UNIVERSITY POLYTECNIC	202011046434	Published	24.10.2020	20.11.2020	
		HOME OUTDOOR FORNITORE WASHER	Mr. Sanjeev Kumar Gunta						
			Dr. Vikas Kumar Sharma						
69	GLA University, Mathura	FRONTAL CRASH PROTECTED CHASSIS	Dr. Diwakar Bhardwaj	UNIVERSITY POLYTECNIC	202011046433	FER Filed	24.10.2020	20.11.2020	
	5.	FOR AN AUTOMOBILE	Mr. Pradeep Kumar Singh						
70	CLA University Mathura	SUICIDE DEEVENTION ALEPT SYSTEM	Dr. Kuldeep Kumar Saxena	MECHANICAL ENCINEEDING	202011045691	Dubliched	20 10 2020	06 11 2020	
70	dLA Oniversity, Mathura	SOUDET REVENTION ALERT STSTEM	Ms. Ankita Awasthi	MECHANICAE ENGINEERING	202011045001	Tublisheu	20.10.2020	00.11.2020	
71	GLA University, Mathura	SIX STROKE DIESEL-WATER ENGINE	Mr. Mahendra Kumar Sahani	UNIVERSITY POLYTECNIC	202011045690	Published	20.10.2020	06.11.2020	
			Dr. Vijay Kumar Dwivedi						
72	GLA University, Mathura	REGENERATIVE BRAKING SYSTEM	Mr. Viyat Varun Upadhyay	MECHANICAL ENGINEERING	202011045682	Published	20.10.2020	06.11.2020	
			Mr. Ritesh Dixit Mr. Briji Mohan Angira						
			Dr. Manoi Kr. Agrawal						
			Dr. Piyush Singhal						
73	GLA University, Mathura	SMART ENGINE	Mr. Ritesh Dixit	MECHANICAL ENGINEERING	202011045689	Published	20.10.2020	06.11.2020	
			Mr. Brij Mohan Angira						
			Mr. Yasir Mahmood						
			Mr. Anas Islam						
			Mr. Harshjeet Singh						
			Mr. Sumiran Saran						
			Mr. Samarth Agarwal						
74	GLA University, Mathura	DESIGN AND FABRICATION OF ECO KART	Mr. Saransh Srivastava	MECHANICAL ENGINEERING	202011045436	Published	19.10.2020	06.11.2020	
			Mr. Prasnant Bhardwaj						
			Mr. Saurahh Pathak						
			Mr. Chahat Pathak						
			Mr. Divvank Sharma						
			Mr. Gaurav Chaudhary						
			Dr. Sujit Kumar Verma						
			Dr. Naveen Kumar Gupta						
		DESIGN AND ANALYSIS OF	Mr. Kumar Kaustubh Mishra						
75	GLA University, Mathura	MICROWINDTURBINE FOR ELECTRICITY	Mr. Anuj Singh	MECHANICAL ENGINEERING	202011045685	Published	20.10.2020	06.11.2020	
-		GENERATION IN FOURWHEELERS	Mr. Pooja Trivedi						
			Km. Shreyanshi Ma Baa an dan Dantan Sinah						
			Mr. Rupendra Pratap Singh						
			Mr. Ravindra Pratan Singh						
			Mr. Arpit Deep						
76	GLA UNIVERSITY, MATHURA	A SOLAR RADIATION TRACKING DEVICE	Mr. Himanshu Verma	MECHANICAL ENGINEERING	202011045684	FER Filed	20.10.2020	06.11.2020	
	, -	WITHOUT MICROCONTROLLER	Mr. Aman Kumar						
			Mr. Atul Pundhir						

			Mr. Harish Sharma						
			Mr. Aman Sharma						
		DESIGN AND EADDICATION OF STAID	Mr. Divyanshu Mr. Dabit Viahaalaanna						
77	GLA University, Mathura	CLIMBING WHEFT CHAIR	MI. KOIIIt VISIIWakai IIla Mr. Nishant Kumar Sharma	MECHANICAL ENGINEERING	202011045680	Published	20.10.2020	06.11.2020	
			Mr. Puneet Singh						
			Mr. Gaurav Soni						
			Mr. Vansh Yadav						
			Mr. Sunil Kumar						
		FABRICATION OF PIEZOELECTRIC POWER	Mr. Rishabh Chaturvedi						
78	GLA University, Mathura	GENERATOR	Mr. Kartikeya Pandey	MECHANICAL ENGINEERING	202011045683	Published	20.10.2020	06.11.2020	
			Mr. Rupendra Singn Mr. Sachin Vishwakarma						
			Mr. Harish Sharma						
			Mr. Rajat Yadav						
70	CLA University Mathura	AUTOMATIC CAPACE DOOD ODENED	Mr. Mordhwaj	MECHANICAL ENCINEEDING	202011045600	Dubliched	20 10 2020	06 11 2020	
79	GLA University, Mathura	AUTOMATIC GARAGE DOOR OPENER	Mr. Himanshu Agrawal	MECHANICAL ENGINEERING	202011045000	Publislieu	20.10.2020	06.11.2020	
			Mr. Kuldeep Prajapati						
			Mr. Abhishek Singh						
			Mr. Toshit Jain Mr. Mohit Sharma						
		AN EYE BLINK DETECTOR SYSTEM TO	Mr. Sumit Singh						
80	GLA University, Mathura	PREVENT ACCIDENTS	Mr. Kushagra Singh	MECHANICAL ENGINEERING	202011045687	Published	20.10.2020	06.11.2020	
			Mr. Santosh						
			Mr. Prafful Kumar						
			Mr. Sunil Kumar						
			Mr. Mo. Faisal Azad						
81	GLA University. Mathura	IOT BASED SOLAR WASHING MACHINE	Mr. Anurag Chaubey	MECHANICAL ENGINEERING	202011050122	Published	18.11.2020	11.12.2020	
			Mr. Hemant Singh						
			Dr Kamal Sharma						
			Mr. Aman Sharma						
			Dr. Kamal Sharma Mr. Bishahh Chatuma di						
		AUTOMATIC LEG BEFORE WICKET (LBW)	Mr. Rajat Yaday						
82	GLA University, Mathura	DETECTOR IN CRICKET USING IMPACT	Mr. Aman Sharma	MECHANICAL ENGINEERING	202011046212	Published	23.10.2020	20.11.2020	
	5.	RANGE ULTRASONIC SENSORS	Mr. Anas Islam						
			Dr. Vishal Goyal						
			Mr. Rohit Sharma						
			Dr. Kamal Sharma Mr. Bobit Sharma						
			Mr. Anas Islam						
		COST-EFFECTIVE AND CONVENIENT	Mr. Rajat Yaday						
83	GLA University, Mathura	DEVICE FOR COCONUT PEELING	Mr. Aman Sharma	MECHANICAL ENGINEERING	202011046431	Published	24.10.2020	20.11.2020	
			Mr. Rishabh Chaturvedi						
			Ms. Rashmi Mishra						
			Dr. Pradeep Kumar Singh Dr. Kamal Sharma						
			Mr. Anas Islam						
			Mr. Rohit Sharma						
84	GLA University Mathura	AUTOMATIC DUNG CAKES MAKER	Mr. Aman Sharma	MECHANICAL ENGINEERING	202011046211	Published	23 10 2020	20 11 2020	
04	den omversity, mathufa	AUTOWATIC DUNG CAKES MAKEK	Mr. Rajat Yadav	MEGHANICAL ENGINEERING	202011040211	rubiisiieu	23.10.2020	20.11.2020	
			Mr. Rishabh Chaturvedi						
			Dr. Pradeep Kumar Singh						
			Dr. Naveen Kumar Gupta						
85	GLA University, Mathura	FOLDABLE CROSS-FLOW LAPTOP COOLING	Mr. Shailesh Sharma	MECHANICAL ENGINEERING	202011047438	Published	30.10.2020	11.12.2020	
	• ·	PAD	Mr. Veneet Kumar						
		A HETEROCYCLIC COMPOUND AS AN ANTI-	Dr. Jeetendra Kumar Gupta						
86	GLA University, Mathura	THYROID AGENT AND A PROCESS OF	Dr. Kamal Shah Somdutt Mujwar	INSTITUTE OF	201911021483	Granted	30.05.2019	30.10.2020	
		PREPARATION THEREOF	Dr. Pradeen Mishra	I HANMAGEU HGAL KESEAKUH					

87	GLA University, Mathura	SMART MATERIAL HANDLING CRUCIBLE	Mr. Prarit Agrawal Mr. Harshit Sehgal Mr. Dinesh Kumar Dr. Sujit Verma Mr. Ritesh Dixit	MECHANICAL ENGINEERING	202011050117	Published	18.11.2020	11.12.2020	
88	GLA University, Mathura	MUTLI-PURPOSE AI ENABLED FACE RECOGNITION BASED SMART HOARDINGS FOR INCREASING THE VISIBILITY OF ADVERTISEMENT	Dr. Kamal Sharma Mr. Anas Islam Mr. Rishabh Chaturvedi Dr. Ashish Sharma Dr. Manish Saraswat	MECHANICAL ENGINEERING	202011050118	Published	18.11.2020	11.12.2020	
89	GLA University, Mathura	EXHAUST BASED AUTOMATIC SEED SOWING MACHINE FOR AGRICULTURE APPLICATIONS	Mr. Rohit Sharma Mr. Rishabh Chaturvedi Mr. Nitin Kukreja Prof. Ashish Sharma Mr. Avinash Dutt Kaushik Ms. Rashmi Mishra	MECHANICAL ENGINEERING	202011050120	Published	18.11.2020	11.12.2020	
90	GLA University, Mathura	A SOLAR- POWERED RAIL-TRACK CLEANING VEHICLE	Mr. Rohit Sharma Mr. Amit Agrawal Mr. Rishabh Chaturvedi Prof. Ashish Sharma Mr. Anas Islam Mr.Viyat Varun Upadhyay	MECHANICAL ENGINEERING	202011052148	Granted	30.11.2020	11.12.2020	
91	GLA University, Mathura	A HYDRAULIC SENSORS-BASED SUSPENSION SYSTEM INSPIRED BY KANGAROO LEG	Prof. Kamal Sharma Mr. Anas Islam Mr. Rishabh Chaturvedi Mr Aman Sharma Mr. Rajat Yadav	MECHANICAL ENGINEERING	202011052135	Published	30.11.2020	11.12.2020	
92	GLA University, Mathura	PNEUMATIC SUSPENSION CRUTCH FOR DISABLED PERSONS- PSCDP	Prof. Kamal Sharma Mr. Anas Islam Mr. Rishabh Chaturvedi Mr Aman Sharma Mr. Rajat Yadav	MECHANICAL ENGINEERING	202011051632	FER Issued	27.11.2020	04.12.2020	
93	GLA University, Mathura	ARDUINO BASED SMART STAPLER - ABS	Dr. Kamal Sharma Dr. Amit Agrawal Mr. Anas Islam Mr. Anjani Kumar Rai Mr. Aman Sharma Mr. Kuwar Mausam	MECHANICAL ENGINEERING	202011052586	Published	02.12.2020	11.12.2020	
94	GLA University, Mathura	A NOVAL DEVICE FOR LYRICAL COMMUNICATION BAESD ON AI (ARTIFICIAL INTELLIGENCE) AND NLP (NATURAL LANGUAGE PROCESSING)	Dr. Munesh Chandra Trivedi Prof. Vishal Goyal Anil Kumar Dubey Jitendra Kumar	ELECTRONICS & COMM. ENGINEERING	202011051629	Granted	27.11.2020	04.12.2020	
95	GLA University, Mathura	NANOEMULGEL COMPOSITION CONTAINING ESSENTIAL OIL OF FERULA ASAFOETIDA	Anuj Garg Ahsas Goyal Shashank Chaturvedi	INSTITUTE OF PHARMACEUTICAL RESEARCH	202011052439	FER Filed	02.12.2020	11.12.2020	
96	GLA University, Mathura	Automatic Stapler Type Button Stitcher (A Button Stapler)	Dr. Kamal Sharma Mr.Anas Islam Mr.Rishabh Chaturvedi Mr.Aman Sharma Mr. Rajat Yadav	MECHANICAL ENGINEERING	202011052211	Published	30.11.2020	11.12.2020	
97	GLA University, Mathura	AN EMBEDDED SYSTEM FOR MEASURING IC ENGINE EMISSION	Prof. Kamal Sharma Dr. Manish Saraswat Mr. Birendra Kumar Saraswat Ms. Rashmi Mishra Prof. Vishal Goyal	MECHANICAL ENGINEERING	202011052147	Published	30.11.2020	11.12.2020	
98	GLA University, Mathura	GAS MONITORING AND GAS INDICATOR SYSTEM	Prof. Kamal Sharma Mr. Anas Islam Mr. Anjani Kumar Rai Dr. Amit Agrawal Prof. Ashish Sharma Dr. Manish Saraswat	MECHANICAL ENGINEERING	202011051633	Published	27.11.2020	04.12.2020	

99	GLA University, Mathura	A BLUETOOTH BASED HELMET HAVING SMART GPS	Dr. Amit Agrawal Mr. Anas Islam Mr. Anjani Kumar Rai Mr. Aman Sharma Prof. Ashish Sharma Prof. Vishal Goyal	ELECTRONICS & COMM. ENGINEERING	202011052132	Published	30.11.2020	11.12.2020	
100	GLA University, Mathura	POLLUTION FIGHTER DRONE (WITH IOT AND ML TECHNOLOGY)	Shubham Kumar Shukla Soumya Goyal Aasheesh Shukla Divya Singh Manish Kumar Abhay Chaturvedi	ELECTRONICS & COMM. ENGINEERING	202011051814	Published	27.11.2020	04.12.2020	
101	NewGen IEDC, GLA University, Mathura	SOLAR ENERGY ASSISTED STAIR CHAIR (SEA-SC)	Akash Gupta Dr. Vijav Kumar Dwivedi	MECHANICAL ENGINEERING	202011052134	FER Issued	30.11.2020	11.12.2020	
102	NewGen IEDC, GLA	A RACK AND PINION DRIVEN CYCLE	Anand Saraswat Himanshu Unadhay	MECHANICAL ENGINEERING	202011051630	FER Issued	27.11.2020	04.12.2020	
103	NewGen IEDC, GLA University, Mathura	AN ALERT SYSTEM FOR SAFE DRVING DURING FOG	PUSHPENDRA SHARMA Tarun chaudhary Trivendra singh Chirag varshney	MECHANICAL ENGINEERING	202011051631	Published	27.11.2020	04.12.2020	
104	NewGen IEDC, GLA University, Mathura	PENDENT KAWACH	Ayan Chowdhary Deepanshu Bhalla Tushar Agrawal	COMPUTER ENGINEERING & APPLICATIONS	202011052133	Published	30.11.2020	11.12.2020	
105	GLA University, Mathura	PRESSURE INDICATOR FOR HEAVY VEHICLE	Mr.Anas Islam Mr.Rishabh Chaturvedi Mr.Aman Sharma Mr. Anjani Rai Mr. Amit Agrawal Mr. Vivat Varun Upadhyay	MECHANICAL ENGINEERING	202011052150	Published	30.11.2020	11.12.2020	
106	GLA University, Mathura	PNEUMATIC BED FOR TODDLERS	Mr.Anas Islam Mr.Rishabh Chaturvedi Mr.Aman Sharma Mr. Nitin Kukreja Mr. Rajat Yadav Prof. Ashish Sharma Mr. Anjani Rai Dr. Munesh Chandra Trivedi	COMPUTER ENGINEERING & APPLICATIONS	202011052149	Published	30.11.2020	11.12.2020	
107	GLA University, Mathura	A GREEN PESTICIDE	Panchanan Pramanik, Susmita Pramanik, Dipak Kr Das, Arindam Pramanik	Chemistry	201811046557	Published	10.06.2019	11.12.2020	
108	GLA University, Mathura	A COMPOSITION FOR THE PURIFICATION OF WATER FOR POTABLE PURPOSE	Panchanan Pramanik, Susmita Pramanik, Dipak Kr Das, Prabal Pratap Singh, Yogendra Kumar	Chemistry	201911017366	Published	01.05.2019	06.11.2020	