

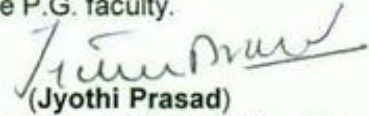
## OFFICE OF THE DEAN : POST GRADUATE STUDIES

No.: PGS/SA/2581

Dated : June 20, 2018

### All Members of P.G. Faculty

A copy of the minutes (revised) of I/2018 meeting of the P.G. Faculty held on May 14, 2018 is placed on the University website [www.gbpuat.ac.in](http://www.gbpuat.ac.in) for your kind information. You are requested to follow up action, if any with regard to the items related to your department/college so that the same could be put-up in the next meeting of the P.G. faculty.



(Jyothi Prasad)  
Secretary, Post Graduate Faculty

Copy to:

1. All Deans of the Colleges
2. Registrar
3. Coordinator Admissions
4. Director, Research / Extension / Communication
5. All Heads of Departments
6. P.S. to V.C. for kind information of the Vice-Chancellor please.

## **Minutes (revised) of the I/2018 P.G. Faculty Meeting held on May 14, 2018 at 11:30 A.M. in the Conference Hall, College of Agriculture**

The list containing the names of the member who attended the meeting is placed at Annexure-I. At the outset, Secretary, P.G. Faculty welcomed the Hon'ble Dean, PGS/ Chairman of Post Graduate Faculty and also welcomed all members of the P.G. faculty. Dean, PGS/Chairman of the Post Graduate Faculty also welcomed all faculty members. The contribution of Dr. Devendra Kumar as Chairman of Post Graduate Faculty was appreciated. The P.G. faculty welcomed Dr. Devendra Kumar, Dean, CABM.

There after the agenda was taken up and the following decisions were taken.

**Item No. I/2018:1 : Confirmation of the minutes of II/2017 meeting held on 28.10.2017.**

The minutes of the meeting as circulated were confirmed.

**Item No. I/2018:2 : Review of action taken (II/2017 meeting).**

The minutes were confirmed and noted. No action is required.

**Item No. I/2018:3 : Accreditation of P.G. Faculty members for Post Graduate Research.**

The faculty considered the recommendations of Accreditation Committee meeting held on April 23, 2018 at 11:30 a.m. and examined the proposal of following faculty members for accreditation to Master's/Ph.D. research as per details given against each in depth and found them eligible and therefore recommended for consideration by the Academic Council.

| Sl. No. | Name of Faculty Member | Designation         | Department                 | Accreditation Level |
|---------|------------------------|---------------------|----------------------------|---------------------|
| 1.      | Dr. Roopali Sharma     | J.R.O.              | Plant Pathology            | Ph.D. Research      |
| 2.      | Dr. U.C. Lohani        | J.R.O.              | PHP&FE                     | Ph.D. Research      |
| 3.      | Dr. Meena Mrigesh      | Assistant Professor | Veterinary Anatomy         | Ph.D. Research      |
| 4.      | Dr. Maansi             | Assistant Professor | Vety. Pub. Health & Epid.  | Ph.D. Research      |
| 5.      | Dr. Ruokobeinuo Houzha | Assistant Professor | Vety. Physiol. & Biochem.  | Ph.D. Research      |
| 6.      | Dr. Vidya Sagar Singh  | Assistant Professor | Vety. Parasitology         | Ph.D. Research      |
| 7.      | Dr. Jubeda Begum       | Assistant Professor | Vety. Microbiology         | Master's Research   |
| 8.      | Dr. Anuj Tewari        | Assistant Professor | Vety. Microbiology         | Master's Research   |
| 9.      | Dr. Kiran Rana         | Assistant Professor | Agri. Comm.                | Master's Research   |
| 10.     | Dr. Sweta Rai          | Assistant Professor | Food Sci. & Technology     | Master's Research   |
| 11.     | Dr. Rajiv Suman        | Assistant Professor | Industrial & Prod. Engg.   | Master's Research   |
| 12.     | Dr. Anshika Gupta      | Assistant Professor | Industrial & Prod. Engg.   | Master's Research   |
| 13.     | Dr. S.B. Bhardwaj      | J.R.O.              | Maths, Stats. & Comp. Sci. | Master's Research   |
| 14.     | Dr. Shefali Massey     | Assistant Professor | Clothing & Textiles        | Master's Research   |

(Action : Secretary, PG Faculty/Dean, PGS)



**Item No. I/2018:4 : Inclusion of 04 credits of courses of Research Methodology in Basic Supporting Courses of Ph.D. programmes from Academic Session 2018-19**

The house was informed that University Grants Commission vide its notification dated May 05, 2016 on Minimum Standards & Procedure for Award of M.Phil./Ph.D. Degree Regulations-2016, recommended that a minimum of 04 credits shall be assigned to one or more courses of Research Methodology for Ph.D. degree. In view of UGC Regulations-2016 two courses on Research Methodology i.e. B.H.S. 652, Research Methodology-I [1(1-0-0)] and BPS-653 Research Methodology-II [3(2-0-1×3)] have been developed by Department of Social Sciences & Humanities and Department of Maths, Stats & Comp. Sci., College of Basic Sciences & Humanities, respectively.

It was also brought to the notice of the House that Academic Council under Item no.: 2018:383:10 approved the proposal in principle with the condition that the detailed proposal for introduction of new courses and change in package of Basic Supporting Courses of all majors of Ph.D. be submitted in next meeting with the recommendation of P.G. Faculty.

The P.G. Faculty discussed the proposal in detail and resolved the following.

The proposed courses i.e. BHS-652 Research Methodology-I [1(1-0-0)] and BPS-653 Research Methodology-II [3(2-0-1×3)] will replace the existing Basic Supporting Courses for all Ph.D. programmes of the University

The both proposed courses will replace the existing course BHS/BPS-651 Research Methodology, hence it will not be offered to any student of Ph.D. programme from Academic Session 2018-19.

The existing courses BPS-561 Statistical Methods and BPS-661 Experimental Statistics will also not be offered alongwith the proposed course BPS-653 Research Methodology-II [3(2-0-1×3)] to any Ph.D. student.

The core course BPM-731 Integral Transforms and Z-transforms [3(3-2-0)] of Ph.D. (Mathematics) programme has been moved to Optional Course.

The proposal may be placed before the Academic Council for its consideration.

*(Action : Secretary, PG Faculty/Dean, PGS)*

**Item No.: I/2018:5 Compulsory Courses for Minor Package of Ph.D. programme**

The proposal was placed before the P.G. Faculty and it was informed that as per the resolution passed Academic Council in its 382<sup>nd</sup> meeting held of November 10, 2017 under Item No. 2017:382:15(6) "**Modification in Academic Regulations on the Award of Post-Graduate Degrees**". The modification in following Clauses of Chapter V of Academic Regulations has also been approved.

| Clause | Modified Regulation  |
|--------|--|
| 15(c)  | The preliminary written examination in minor shall consist of compulsory courses/courses identified by the department for the minor.               |
| 15(d)  | The written examination in major and minor field of study has to be conducted by Head of the Department twice in a semester for all Ph.D. students |

In order to ensure compliance of amended regulations and smooth conduct of written examination in minor field of study, College-wise meetings of Head of Departments and Deans of concerned Colleges were held in the Office of Dean, PGS during March 06-09, 2018 to finalize compulsory minor course package for all the Ph.D. programmes.

The P.G. Faculty discussed the proposal and resolved the following.

In order to ensure compliance of UGC Regulations-2016 and modified Academic Regulations, the compulsory course package of minor should consist of 05 or 05+01 credits and rest credits (05 or 04) can be obtained by allowing a student to study course(s) of his/her choice in the minor field of their study.

Accordingly, the package of compulsory courses for the following minors in Ph.D. was approved.

| Minor  | Existing  |            | Proposed   |                       |
|--|---|------------|--|-----------------------|
|  | Course No. & Title  | T. Credits | Course No. & Title   | T. Credits            |
| Agribusiness Management                                | –   | –          | MAM-721 Agribusiness & Rural Marketing [3(2-1-1)]<br>MAM-761 Agribusiness & Rural Finance [2(1-1-1)]   | 05                    |
| Agricultural Economics                                 | –   | –          | AEC-500 Micro Economic Theory & Applications [3(3-2-0)]<br>AEC-640 Agricultural Production Economics [2(1-1-1)]  | 05                    |
| Agricultural Extension and Communication               | BHS/AAC-702 Foundations of Psychology [3(3-0-0)]<br>BHS/AAC-661 Dynamics of Social Change [2(2-0-0)]  | 05         | BHS/AAC-702 Foundations of Psychology [3(3-0-0)]<br>BHS/AAC-661 Dynamics of Social Change [2(2-0-0)]   | 05                    |
| Agrometeorology  | AAM-503 Micrometeorology [3(2-0-1)]<br>AAM-510 General Meteorology [3(3-1-0)]   | 06         | AAM-503 Micrometeorology [3(2-0-1)]<br>AAM-510 General Meteorology [3(3-1-0)]  | 06                    |
| Agronomy   | APA-616 Current Trends in Agronomy [3(3-0-0)]<br>APA-704 Mineral Nutrition of Crop Plants [3(2-0-1)]  | 06         | APA-616 Current Trends in Agronomy [3(3-0-0)]<br>APA-704 Mineral Nutrition of Crop Plants [3(2-0-1)]   | 06                    |
| Entomology   | –   | –          | APE-510 Principles of Integrated Pest Management [2(1-0-1)]<br>APE-612 Biological Controls [2(1-0-1)]<br>APE-614 Agricultural Zoology [2(1-0-1)]   | 06                    |
| Food Technology  | AFS-511 Principles of Food Processing [3(2-0-1)]  | 03         | AFS-511 Principles of Food Processing [3(2-0-1)]<br>AFS-526 Food Chemistry & Nutrition [3(3-0-0)]  | 06                    |
| Genetics and Plant Breeding                            | AGP-540 Cell Biology, Molecular Genetics & Gene Regulation [3(3-0-0)]<br>AGP-560 Advanced Plant Breeding [3(3-0-0)]   | 06         | AGP-540 Cell Biology, Molecular Genetics & Gene Regulation [3(3-0-0)]<br>AGP-560 Advanced Plant Breeding [3(3-0-0)]  | 06                    |
| Seed Science and Technology (Multi-disciplinary prog.) | AST-701 Hybrid Seed Production [2(1-0-1)]<br>AST-704 Seed Laws & DUS Testing for Plant Variety Protection [3(2-0-1)]  | 05         | AST-701 Hybrid Seed Production [2(1-0-1)]<br>AST-704 Seed Laws & DUS Testing for Plant Variety Protection [3(2-0-1)]   | 05                    |
| Horticulture   | APH-541 Tropical & Dry Land Fruit Production [3(2-0-1)]<br>APH-542 Subtropical & Temperate Fruit Production [3(2-0-1)]  | 06         | APH-541 Tropical & Dry Land Fruit Production [3(2-0-1)]<br>APH-542 Subtropical & Temperate Fruit Production [3(2-0-1)]   | 06                    |
| Horticulture (Floriculture and Landscaping)            | APH-552 Production Technology of Cut Flowers [3(2-0-1)]<br>APH-553 Production Technology of Loose Flowers [3(2-0-1)]  | 06         | APH-552 Production Technology of Cut Flowers [3(2-0-1)]<br>APH-553 Production Technology of Loose Flowers [3(2-0-1)]   | 06                    |
| Plant Pathology  | APP-604 Principles of Plant Pathology [3(3-0-0)]<br>APP-606 Principles of Plant Disease Management [3(2-0-1)]   | 06         | APP-604 Principles of Plant Pathology [3(3-0-0)]<br>APP-606 Principles of Plant Disease Management [3(2-0-1)]  | 06                    |
| Soil Science   | APS-500 Soil Physics [3(2-0-1)]<br>APS-515 Analytical Techniques & Instrumental Methods in Soil & Plant Analysis [2(0-0-2)]<br>APS-516 Soil Fertility & Fertilizer Use [4(3-0-1)] | 09         | APS-500 Soil Physics [3(2-0-1)]<br>APS-515 Analytical Techniques & Instrumental Methods in Soil & Plant Analysis [2(0-0-2)]<br><b>or</b><br>APS-516 Soil Fertility & Fertilizer Use [4(3-0-1)]<br>APS-515 Analytical Techniques & Instrumental Methods in Soil & Plant Analysis [2(0-0-2)] | 05<br><b>or</b><br>06 |

| Minor                                   | Existing   |            | Proposed   |            |
|---|--|------------|--|------------|
|   | Course No. & Title   | T. Credits | Course No. & Title   | T. Credits |
| Horticulture<br>(Vegetable Science)     | APV-502 Breeding of Self-Pollinated Vegetable Crops [3(2-0-1)]<br>APV-504 Breeding of Cross-Pollinated Vegetable Crops [3(2-0-1)]<br><b>Above or Below Courses</b><br>APV-531 Production Technology of Cool Season Vegetable Crops [3(2-0-1)]<br>APV-532 Production Technology of Warm Season Vegetable Crops [3(2-0-1)] | 06         | APV-504 Breeding of Cross-Pollinated Vegetable Crops [3(2-0-1)]<br>APV-531 Production Technology of Cool Season Vegetable Crops [3(2-0-1)]             | 06         |
| Clothing and Textiles                   | HCT-528 Fibre Science [3(3-0-0)]<br>HCT-531 Textile Quality Analysis [3(2-0-1)]  | 06         | HCT-528 Fibre Science [3(3-0-0)]<br>HCT-531 Textile Quality Analysis [3(2-0-1)]  | 06         |
| Family Resource Management              | HRM-761 Occupational Ergonomics [2(1-0-1)]<br>HRM-765 Globalization & Consumer Economics [3(2-0-1)]  | 05         | HRM-761 Occupational Ergonomics [2(1-0-1)]<br>HRM-765 Globalization & Consumer Economics [3(2-0-1)]  | 05         |
| Human Nutrition                         | HFN-551 Advanced Nutrition [3(3-0-0)]<br>HFN-552 Advances in Community Nutrition [3(1-0-2)]  | 06         | HFN-551 Advanced Nutrition [3(3-0-0)]<br>HFN-552 Advances in Community Nutrition [3(1-0-2)]  | 06         |
| Human Development and Family Studies    | HHD-511 Advances in Life Span Development [3(2-0-1)]<br>HHD-518 Appraisal of Child & Family Welfare Institutions [2(1-0-1)]  | 05         | HHD-511 Advances in Life Span Development [3(2-0-1)]<br>HHD-518 Appraisal of Child & Family Welfare Institutions [2(1-0-1)]                            | 05         |
| Animal Genetics & Breeding              | AGB-603 Population & Quantitative Genetics in Animal Breeding [3(2-0-1)]<br>AGB-604 Selection Methods & Breeding Systems [4(3-0-1)]  | 07         | AGB-603 Population & Quantitative Genetics in Animal Breeding [3(2-0-1)]<br>AGB-607 Cattle & Buffalo Breeding [3(2-0-1)]                               | 06         |
| Animal Nutrition                        | ANN-701 Modern Concepts of Feeding Ruminants & Forage Utilization [3(3-0-0)]<br>ANN-702 Modern Concepts of Feeding Simple Stomached Animals [2(2-0-0)]   | 05         | ANN-701 Modern Concepts of Feeding Ruminants & Forage Utilization [3(3-0-0)]<br>ANN-702 Modern Concepts of Feeding Simple Stomached Animals [2(2-0-0)] | 05         |
| Livestock Production and Management     | –  | –          | LPM-602 Sheep & Goat Production & Management [3(2-0-1)]<br>LPM-614 Cattle & Buffalo Production & Management [3(2-0-1)]                                 | 06         |
| Poultry Science                         | –  | –          | LPM-633 Commercial Layer Production [3(2-0-1)]<br>LPM-634 Commercial Broiler Production [3(2-0-1)]   | 06         |
| Livestock Products Technology           | –  | –          | LPT-602 Meat Processing, Packaging, Quality Control & Marketing [3(2-0-1)]<br>LPT-608 Market Milk Processing & Dairy Plant Practices [3(2-0-1)]        | 06         |
| Veterinary Anatomy                      | –  | –          | VAN-607 Systemic Histology & Ultrastructure [4(3-0-1)]<br>VAN-709 Functional Veterinary Anatomy [2(2-0-0)]   | 06         |
| Veterinary Gynaecology and Obstetrics   | VGO-612 Female Infertility [4(3-0-1)]<br>VGO-614 Andrology & Male Infertility [4(3-0-1)]   | 08         | VGO-612 Female Infertility [4(3-0-1)]<br>VGO-617 Clinical Practice-I [1(0-0-1)]<br>VGO-618 Clinical Practice-II [1(0-0-1)]                             | 06         |
| Veterinary Medicine                     | VMD-614 Clinical Diagnostic Techniques [3(1-0-2)]<br>VMD-615 Clinical Practice-I [1(0-0-1)]  | 05         | VMD-718 Advances in Veterinary Therapeutics [2(1-0-1)]<br>VMD-768 Advances in Veterinary Diagnostics [3(1-0-2)]  | 05         |
| Veterinary Microbiology and Immunology* | –  | –          | VMC-604 General Virology [3(2-0-1)]<br>VMC-610 Bacteriology-I [4(3-0-1)]   | 07         |

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| Minor                                     | Existing  |            | Proposed  |            |
|---|---|------------|---|------------|
|   | Course No. & Title  | T. Credits | Course No. & Title  | T. Credits |
| Veterinary Pathology                      | VPP-701 Pathology of Nutritional & Metabolic Disturbances [3(2-0-1)]<br>VPP-703 Advances in Diagnostic Pathology [3(1-0-2)]<br>VPP-704 Ultra structural Pathology [2(1-0-1)]<br>VPP-706 Pathology of Important & Emerging Diseases of Pets & Livestock [2(1-0-1)] | 10         | VPP-701 Pathology of Nutritional & Metabolic Disturbances [3(2-0-1)]<br>VPP-706 Pathology of Important & Emerging Diseases of Pets & Livestock [2(1-0-1)]         | 05         |
| Veterinary Parasitology                   | VPA-605 Parasitological Techniques [2(0-0-2)]<br>VPA-612 Veterinary Helminthology I [3(2-0-1)]<br>VPA-613 Veterinary Helminthology II [3(2-0-1)]  | 08         | VPA-605 Parasitological Techniques [2(0-0-2)]<br>VPA-608 Immunoparasitology [3(2-0-1)]  | 05         |
| Veterinary Pharmacology and Toxicology    | VPT-602 Autonomic & Autacoid Pharmacology [3(2-0-1)]<br>VPT-607 Chemotherapy [3(2-0-1)]   | 06         | VPT-602 Autonomic & Autacoid Pharmacology [3(2-0-1)]<br>VPT-607 Chemotherapy [3(2-0-1)]   | 06         |
| Veterinary Physiology                     | –   | –          | VPY-706 Avian Physiology [3(2-0-1)]<br>VPY-710 Advances in Immunophysiology [3(2-0-1)]  | 06         |
| Veterinary Biochemistry                   | –   | –          | VBC-602 Techniques in Biochemistry [2(0-0-2)]<br>VBC-610 Clinical Biochemistry of Animals [3(2-0-1)]  | 05         |
| Veterinary Public Health and Epidemiology | –   | –          | VPE-702 Emerging & Remerging Zoonoses [3(2-0-1)]<br>VPE-710 Trends in Environmental & Disaster Epidemiology [2(2-0-0)]  | 05         |
| Surgery & Radiology                       | VSR-605 Large Animal Anaesthesia [2(1-0-1)]<br>VSR-606 Diagnostic Imaging Techniques [2(1-0-1)]<br>VSR-611 Experimental Surgical Techniques in Animals [2(1-0-1)]<br>VSR-612 Radiographic Anatomy [2(1-0-1)]  | 08         | VSR-605 Large Animal Anaesthesia [2(1-0-1)]<br>VSR-606 Diagnostic Imaging Techniques [2(1-0-1)]<br>VSR-611 Experimental Surgical Techniques in Animals [2(1-0-1)] | 06         |
| Biochemistry                              | BBC-501 General Biochemistry [3(3-0-0)]<br>BBC-505 Basic Techniques in Biochemistry [1(0-0-1)]<br>BBC-640 Intermediary Metabolism-I [2(2-0-0)]<br>BBC-641 Intermediary Metabolism-II [2(2-0-0)]   | 08         | BBC-501 General Biochemistry [3(3-0-0)]<br>BBC-505 Basic Techniques in Biochemistry [1(0-0-1)]<br>BBC-655 Carbon & Nitrogen Metabolism [2(2-0-0)]                 | 06         |
| Botany                                    | BBB-525 Angiosperms : Diversity & Resource Utilization [3(2-0-1)]<br>BBB-535 Plant Ecology [2(2-0-0)]   | 05         | BBB-525 Angiosperms : Diversity & Resource Utilization [3(2-0-1)]<br>BBB-535 Plant Ecology [2(2-0-0)]   | 05         |
| Agricultural Chemicals                    | BPC-606 Synthetic Agrochemical for Insect & Mite Management [3(2-0-1)]<br>BPC-607 Synthetic Agrochemical for Fungi & Nematode Management [3(2-0-1)]<br>BPC-608 Synthetic Agrochemical for Weed Management [3(2-0-1)]  | 09         | BPC-607 Synthetic Agrochemical for Fungi & Nematode Management [3(2-0-1)]<br>BPC-608 Synthetic Agrochemical for Weed Management [3(2-0-1)]                        | 06         |
| Chemistry                                 | BPC-531 Organic Chemistry [3(3-0-0)]<br>BPC-623 Inorganic Chemistry [2(2-0-0)]<br>BPC-641 Physical Chemistry [3(2-0-1)]   | 08         | BPC-531 Organic Chemistry [3(3-0-0)]<br>BPC-623 Inorganic Chemistry [2(2-0-0)]  | 05         |
| Environmental Science                     | BBE-612 Ecosystem Analysis [3(2-0-1)]<br>BBE-621 Environmental Pollution [2(2-0-0)]   | 05         | BBE-612 Ecosystem Analysis [3(2-0-1)]<br>BBE-621 Environmental Pollution [2(2-0-0)]   | 05         |
| Mathematics                               | –   | –          | BPM-602 Special Functions & Integral Equations [2(2-1-0)]<br>BPM-732 Integral Transforms & Z-Transforms [3(3-2-0)]  | 05         |

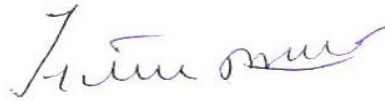
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| Minor                                     | Existing  |            | Proposed  |            |
|---|---|------------|---|------------|
|   | Course No. & Title  | T. Credits | Course No. & Title  | T. Credits |
| Statistics / Agricultural Statistics      | –   | –          | BPS-662 Advanced Experimental Designs [3(2-0-1×3)]<br>BPS-671 Theory of sampling [3(2-0-1×3)]   | 06         |
| Computer Science                          | –   | –          | BPM-621 Numerical Techniques for Computers [3(3-2-0)]<br>BPM-642 Structured Programming Languages [3(2-1-1×2)]  | 06         |
| Microbiology                              | –   | –          | BBM-725 Microbial Diversity & Taxonomy [3(3-0-0)]<br>BBM-730 Advanced Microbial Physiology [2(2-0-0)]   | 05         |
| Molecular Biology and Biotechnology       | BMB-520 Fundamentals of Molecular Biology [3(3-0-0)]<br>BMB-610 Principles in Genetic Engineering [3(3-0-0)]          | 06         | BMB-520 Fundamentals of Molecular Biology [3(3-0-0)]<br>BMB-610 Principles in Genetic Engineering [3(3-0-0)]  | 06         |
| Physics                                   | –   | –          | BPP-620 Introduction of Quantum Mechanics [2(2-1-0)]<br>BPP-652 Elements of Statistical Mechanics [2(2-1-0)]<br>BPP-653 Solid State Physics & Material Science [2(2-1-0)] | 06         |
| Plant Physiology                          | BPY-602 Principles of Plant Pathology [4(3-0-1)]  | 04         | BPY-602 Principles of Plant Physiology [4(3-0-1)]<br>BPY-705 Climate Change & Crop Growth [2(2-0-0)]  | 06         |
| Civil Engineering                         | –   | –          | TEC-632 Numerical Methods in Civil Engineering [2(2-1-0)]<br>TEC-606 Experimental Stress Analysis [3(2-0-1)]  | 05         |
| Information Technology                    | –   | –          | TIT-618 Web Technologies [2(1-0-1)]<br>TIT-620 Information Storage & Management [2(2-0-0)]  | 04         |
| Electrical Engineering                    | –   | –          | TEE-606 Microprocessors & its Application in Electric Energy Systems [3(3-0-0)]<br>TEE/TEC-611 Modern Control Theory [2(2-1-0)]   | 05         |
| Electronics and Communication Engineering | –   | –          | TEC-621 Transistor Circuit Analysis & Design [2(2-0-0)]<br>TEC-630 Antenna Engineering [2(2-0-0)]<br>TEC-670 Communication Theory [2(2-0-0)]                              | 06         |
| Farm Machinery and Power Engineering      | –   | –          | TMP-522 Design of Farm Power & Machinery System [3(2-1-1)]<br>TMP-723 Energy Conservation & Management in Farm Power Machinery [2(2-1-0)]                                 | 05         |
| Irrigation and Drainage Engineering       | TID-531 Agricultural Drainage Systems [3(2-0-1)]<br>TID-561 Ground Water Engineering [3(2-0-1)]                       | 06         | TID-531 Agricultural Drainage Systems [3(2-0-1)]<br>TID-561 Ground Water Engineering [3(2-0-1)]   | 06         |
| Mechanical Engineering                    | TME-502 Advanced Heat Transfer I [2(2-1-0)]<br>TME-503 Advanced Heat Transfer II [2(2-1-0)]                           | 04         | TME-502 Advanced Heat Transfer I [2(2-1-0)]<br>TME-503 Advanced Heat Transfer II [2(2-1-0)]   | 04         |
|   | <b>Above package or below package</b>   | or         | <b>Above package or below package</b>   | or         |
|   | TME-652 Stress Analysis [2(2-1-0)]<br>TME-632 Computer Aided Mechanical Design [3(3-1-0)]                             | 05         | TME-652 Stress Analysis [2(2-1-0)]<br>TME-632 Computer Aided Mechanical Design [3(3-1-0)]   | 05         |
| Process and Food Engineering              | TPF-643 Advanced Food Process Engineering [3(2-0-1)]<br>TPF-645 Food Processing Equipment & Plant Design [3(2-0-1)]   | 06         | TPF-643 Advanced Food Process Engineering [3(2-0-1)]<br>TPF-645 Food Processing Equipment & Plant Design [3(2-0-1)]   | 06         |
| Production Engineering                    | –   | –          | TIP-663 Advanced Foundry Technology [3(2-0-1)]<br>TIP-666 Advanced Welding Technology [3(2-0-1)]  | 06         |
| Soil & Water Conservation Engg.           | TSW-531 Watershed Hydrology [3(2-0-1)]<br>TSW-551 Sediment Transport [3(2-0-1)]                                       | 06         | TSW-531 Watershed Hydrology [3(2-0-1)]<br>TSW-551 Sediment Transport [3(2-0-1)]   | 06         |
| Aquaculture                               | FAC-711 Advances in Aquaculture Production System [3(2-0-1)]<br>FAC-721 Aquaculture & Ecosystem Management [3(2-0-1)] | 06         | FAC-711 Advances in Aquaculture Production System [3(2-0-1)]<br>FAC-721 Aquaculture & Ecosystem Management [3(2-0-1)]   | 06         |

| Minor                         | Existing  |            | Proposed  |            |
|-------------------------------|---|------------|---|------------|
|                               | Course No. & Title  | T. Credits | Course No. & Title  | T. Credits |
| Fisheries Resource Management | FFB-711 Assessment of Aquatic Biodiversity [2(1-0-1)]     | 05         | FFB-711 Assessment of Aquatic Biodiversity [2(1-0-1)]     | 05         |
|                               | FFB-725 Management of Inland Fishery Resources [3(2-0-1)] |            | FFB-725 Management of Inland Fishery Resources [3(2-0-1)] |            |

The proposal should be placed before Academic Council for its consideration.

*(Action : Secretary, PG Faculty/Dean, PGS)*





**Item No.: I/2018:5(1) Modifications in minor package of College of Agri-Business Management**

The proposal for modification of minor package was placed before the P.G. Faculty in view of re-organization of departments of CABM. The modification in minor package of Ph.D. programmes was discussed in meetings held in the Office of Dean, PGS during March 06-09, 2018 and recommendations were placed before P.G. faculty for approval. P.G. faculty recommended that the proposal as under may be placed before the Academic Council.

| Existing   | Proposed  |
|--|---|
| <b>Agribusiness Management</b>                                     |   |
| MAM-604 Entrepreneurship Development in Agribusiness [2(2-1-0)]    |   |
| MAM-721 Agribusiness and Rural Marketing [3(2-1-1)]                |   |
| MAM-702 Agribusiness Environment & Policy [3(3-1-0)]               |   |
| MAM-761 Agribusiness & Rural Finance [2(1-1-1)]                    |   |
| <b>Production &amp; Operations Management</b>                      |   |
| MAM-641 Production Planning & Control [3(2-0-1)]                   |   |
| MAM-643 Purchasing & Materials Management [3(2-0-1)]               |   |
| MAM-742 Project Management [2(1-1-1)]                              |   |
| MAM-743 Operations Management [2(1-1-1)]                           |   |
| <b>Human Resource Administration</b>                               |   |
| MAM-634 Labour Legislation [3(2-0-1)]                              |   |
| MAM-635 International Corporate Behaviour [3(2-0-1)]               |   |
| MAM-636 Labour Relations & Collective Bargaining [3(2-0-1)]        |   |
| MAM-731 Organization Development & Management of Change [1(1-1-0)] |   |
| <b>Financial Management</b>  |   |
| MAM-665 Forwards, Options & Derivatives Management [3(2-0-1)]      |   |
| MAM-666 Working Capital Management [3(2-0-1)]                      |   |
| MAM-762 Investment & Portfolio Management [3(2-1-1)]               |   |
| MAM-764 Long Term Financial Resources Management [1(1-1-0)]        |   |
| <b>Marketing Management</b>  |   |
| MAM-624 Advertising and Sales Promotion [3(2-0-1)]                 |   |
| MAM-625 Sales and Distribution Management [3(2-0-1)]               |   |
| MAM-629 Consumer Behaviour [2(2-2-0)]                              |   |
| MAM-724 Research for Marketing Decisions [2(1-1-1)]                |   |
|  | <b>Agribusiness Management</b>                                  |
|  | MAM-604 Entrepreneurship Development in Agribusiness [2(2-1-0)] |
|  | MAM-721 Agribusiness and Rural Marketing [3(2-1-1)]             |
|  | MAM-702 Agribusiness Environment & Policy [3(3-1-0)]            |
|  | MAM-761 Agribusiness & Rural Finance [2(1-1-1)]                 |

(Action : Secretary, PG Faculty/Dean, PGS)



**Item No.: I/2018:6      Amendment in the title of M.Sc. Ag. (Horticulture) degree**

The proposal for amendment in the title of M.Sc. Ag. (Horticulture) degree to M.Sc. Ag. Horticulture (Fruit Science) was discussed in detail and it was opined that the proposed nomenclature will narrow the scope of recruitment for the students of this degree programme, hence the revised proposal considering the following points may be resubmitted by Head, Department of Horticulture for consideration of P.G. Faculty in its next meeting.

1. Nomenclature for M.Sc. Ag. (Horticulture) degree programme should be as per the norms of ICAR.
2. It should also be kept in view that new/proposed nomenclature does not have any adverse effect on the part of recruitment of the students of concerned degree programme.
3. Nomenclature of other universities/colleges should also be examined.

*(Action : Head, Horticulture)*

**Item No.: I/2018:7      Amendment in the title of Ph.D. (Horticulture) degree**

The proposal for amendment in the title of Ph.D. (Horticulture) degree to Ph.D. Horticulture (Fruit Science) was discussed in detail and it was opined that the proposed nomenclature will narrow the scope of recruitment for the students of this degree programme, hence the revised proposal considering the following points may be resubmitted by Head, Department of Horticulture for consideration of P.G. Faculty in its next meeting.

1. Nomenclature for Ph.D. (Horticulture) degree programme should be as per the norms of ICAR.
2. It should also be kept in view that new/proposed nomenclature does not have any adverse effect on the part of recruitment of the students of concerned degree programme.
3. Nomenclature of other universities/colleges should also be examined.

*(Action : Head, Horticulture)*

**Item No.: I/2018:8      Recognition of DIBER (DRDO) for carrying out Ph.D. research**

The proposal for recognition of Defence Institute of Bio Energy Research (DIBER) was discussed in depth and it was opined that a proposal for allowing Ph.D. research work at DIBER (DRDO), Haldwani be sent to Director, DIBER, Haldwani for approval. After obtaining necessary approval from Director, DIBER, Haldwani the Head, Department of Horticulture should submit revised proposal for consideration of P.G. Faculty in its next meeting.

*(Action : Head, Horticulture)*

**Item No.: I/2018:9      Start of Academic Session of MBA students in first week of July**

The proposal was placed before the P.G. Faculty.

Secretary, Board of Faculty of CABM and Dean, CABM informed the house and presented proper justification regarding starting academic session of MBA students in the first week of July every year i.e. as most of the reputed companies/organizations/sectors conduct interview for recruitment during April-May and at this time our MBA students are busy in final examinations, industrial attachment etc. Due to this mismatch of timings between our University and various reputed companies, even our best/skilled/intelligent students are not able to get recruitment in these well reputed companies/organizations/sectors etc.

In order to overcome this situation and allow our students to impart presentation of their knowledge gained during their study at our University and get more chances of recruitment in various reputed companies/organizations/sectors etc. the Academic Session of MBA students should be started in first week of July and second semester in first week of December every year.

The proposal may be placed before the Academic Council for its consideration.

*(Action : Secretary, PG Faculty/Dean, PGS)*



**Item No.: I/2018:10 Restructuring of MBA Course Programme.**

The proposal was placed before the P.G. Faculty. After thorough discussion the following restructured MBA Course programme was approved by the P.G. Faculty.

**A. Restructured Elective Package of MBA Programme (change in credits)**

| S. No.                                   | Course No. | Title   | Credit   |          |
|--|------------|---|----------|----------|
|  |            |   | Existing | Proposed |
| <b>Financial Management</b>              |            |   |          |          |
| 1.                                       | MAM-661    | Security Analysis and Portfolio Management            | 3(2-0-1) | 2(2-2-0) |
| 2.                                       | MAM-664    | Corporate Taxation                                    | 3(2-0-1) | 2(2-2-0) |
| 3.                                       | MAM-666    | Working Capital Management                            | 3(2-0-1) | 2(2-2-0) |
| 4.                                       | MAM-667    | Management of Financial Services                      | 3(2-0-1) | 2(2-2-0) |
| <b>Production Management</b>             |            |   |          |          |
| 1.                                       | MAM-641    | Production Planning and Control                       | 3(2-0-1) | 2(2-2-0) |
| 2.                                       | MAM-643    | Purchasing and Materials Management                   | 3(2-0-1) | 2(2-2-0) |
| 3.                                       | MAM-644    | Logistics Management                                  | 3(2-0-1) | 2(2-2-0) |
| 4.                                       | MAM-645    | Service Operations Management                         | 3(2-0-1) | 2(2-2-0) |
| <b>Marketing Management</b>              |            |   |          |          |
| 1.                                       | MAM-624    | Advertising and Sales Promotion                       | 3(2-0-1) | 2(2-2-0) |
| 2.                                       | MAM-625    | Sales and Distribution Management                     | 3(2-0-1) | 2(2-2-0) |
| 3.                                       | MAM-626    | Marketing Research                                    | 3(2-0-1) | 2(2-2-0) |
| 4.                                       | MAM-627    | Production and Brand Management                       | 3(2-0-1) | 2(2-2-0) |
| <b>Information Technology Management</b> |            |   |          |          |
| 1.                                       | MAM-613    | Information Technology Management                     | 3(2-0-1) | 2(2-2-0) |
| 2.                                       | MAM-614    | System Analysis and Design                            | 3(2-0-1) | 2(2-2-0) |
| 3.                                       | MAM-615    | Data Base Management System                           | 3(2-0-1) | 2(2-2-0) |
| 4.                                       | MAM-616    | Internet Programming for e-commerce                   | 3(2-0-1) | 2(2-2-0) |
| <b>International Business Management</b> |            |   |          |          |
| 1.                                       | MAM-637    | Global Human Resource Management                      | 3(2-0-1) | 2(2-2-0) |
| 2.                                       | MAM-653    | Export-Import Procedures, Documentation and Logistics | 3(2-0-1) | 2(2-2-0) |
| 3.                                       | MAM-654    | India's Foreign Trade Policy                          | 3(2-0-1) | 2(2-2-0) |
| 4.                                       | MAM-662    | International Accounting                              | 3(2-0-1) | 2(2-2-0) |
| <b>Human Resource Management</b>         |            |   |          |          |
| 1.                                       | MAM-633    | Group Dynamics  | 3(2-0-1) | 2(2-2-0) |
| 2.                                       | MAM-634    | Labour Legislation                                    | 3(2-0-1) | 2(2-2-0) |
| 3.                                       | MAM-635    | International Cooperative Behaviour                   | 3(2-0-1) | 2(2-2-0) |
| 4.                                       | MAM-636    | Labor Relations and Collective Bargaining             | 3(2-0-1) | 2(2-2-0) |

**B. Change of Course Title**

| Course No. | Course Title                       |                        | Credit      |
|------------|------------------------------------|------------------------|-------------|
|            | Existing                           | Proposed               |             |
| MAM-655*   | Management of Agribusiness Project | Management of Projects | [2(1-1-1)]* |

\*The course with the proposed name will be offered to the students of both MBA (Agribusiness) and MBA programme and will be part of the compulsory courses.



### C. Addition of courses to compulsory courses of MBA programme

| Course No. | Course Title           | Credit   |
|------------|------------------------|----------|
| MAM618     | E-Commerce             | 2(2-1-0) |
| MAM655     | Management of Projects | 2(1-1-1) |

After inclusion of above courses, MBA programme will have following course structure.

1. **Compulsory Courses** - 56 credits
2. **Elective courses** - 08 credits

The proposal may be placed before the Academic Council for its consideration.


*(Action : Secretary, PG Faculty/Dean, PGS)*

### Item No.: I/2018:11 Election of Secretary, Post Graduate Faculty

The House was informed that the term of Dr. Jyothi Prasad as Secretary, Post Graduate Faculty is ending and new Secretary has to be elected. All the P.G. faculty members opined and resolved that Dr. Jyothi Prasad should continue to work as Secretary, Post Graduate Faculty for one more term.

*(Action : Secretary, PG Faculty/Dean, PGS)*

The meeting ended with vote of thanks to the Chair and all faculty members.

  
(Jyothi Prasad)  
Secretary, P.G. Faculty

## Annexure-I

## List of members attended I/2018 P.G. Faculty meeting held on May 14, 2018 at 11:30 A.M.

| Sl. No. | Name                       | Designation/Department   |
|---------|----------------------------|--|
| 1.      | Dr. J.P. Pandey            | Dean, PGS / Chairman   |
| 2.      | Dr. A.P. Sharma            | Registrar  |
| 3.      | Dr. H.C. Sharma            | Dean, Technology   |
| 4.      | Dr. Rita Singh Raghuvanshi | Dean, Home Science   |
| 5.      | Dr. G.K. Singh             | Dean, V.A.Sc.  |
| 6.      | Dr. I.J. Singh             | Dean, Fisheries  |
| 7.      | Dr. Devendra Kumar         | Dean, CABM   |
| 8.      | Dr. A.K. Shukla            | Dean, CBSH   |
| 9.      | Dr. Jyothi Prasad          | Professor, Civil Engineering / Secretary                       |
| 10.     | Dr. R.N. Ram               | Professor & Head, Fisheries Resource Management                |
| 11.     | Dr. A.K. Upadhyay          | Professor & Head, Veterinary Public Health & Epidemiology      |
| 12.     | Dr. T.P. Singh             | Professor & Head, Farm Machinery & Power Engineering           |
| 13.     | Dr. H.S. Chawla            | Professor & Head, Genetics & Plant Breeding                    |
| 14.     | Dr. D.S. Pandey            | Professor & Head, Agronomy                                     |
| 15.     | Dr. M. Raghav              | Professor & Head, Vegetable Science                            |
| 16.     | Dr. Pramod Mall            | Professor & Head, Entomology                                   |
| 17.     | Dr. R.P.S. Gangwar         | Professor & Head, Electronics & Communication Engineering      |
| 18.     | Dr. Avadesh Kumar          | Professor & Head, Vety. & Animal Husbandry Extension Education |
| 19.     | Dr. Anil Kumar             | Professor & Head, Molecular Biology & Genetic Engineering      |
| 20.     | Dr. S.P. Singh             | Professor & Head, Veterinary Physiology & Toxicology           |
| 21.     | Dr. Malobica Das Trakroo   | Professor & Head, Aquatic Environment Management               |
| 22.     | Dr. C.S. Chopra            | Professor & Head, Food Science & Technology                    |
| 23.     | Dr. P.C. Gope              | Professor & Head, Mechanical Engineering                       |
| 24.     | Dr. Anil Kumar             | Professor & Head, Soil & Water Conservation Engineering        |
| 25.     | Dr. Alka Goel              | Professor & Head, Clothing & Textiles                          |
| 26.     | Dr. Deepa Vinay            | Professor & Head, Family Resource Management                   |
| 27.     | Dr. H.L. Mandoria          | Professor & Head, Information Technology                       |
| 28.     | Dr. M.G.H. Zaidi           | Professor & Head, Chemistry                                    |
| 29.     | Dr. Sanjeev Agrawal        | Professor & Head, Biochemistry                                 |
| 30.     | Dr. Reeta Goel             | Professor & Head, Microbiology                                 |
| 31.     | Dr. D. Kumar               | Professor & Head, Animal Genetics & Breeding                   |
| 32.     | Dr. H.N. Singh             | Professor & Head, Agricultural Economics                       |
| 33.     | Dr. A.S. Nain              | Professor & Head, Agrometeorology                              |
| 34.     | Dr. R.S. Chauhan           | Professor & Head, Aquaculture                                  |
| 35.     | Dr. N.S. Jadon             | Professor & Head, Veterinary Surgery & Radiology               |
| 36.     | Dr. Mahesh Kumar           | Professor & Head, Veterinary Medicine                          |
| 37.     | Dr. R.S. Jadoun            | Professor & Head, Industrial & Production Engineering          |
| 38.     | Dr. P.B. Rao               | Professor & Head, Biological Sciences                          |
| 39.     | Dr. J.P.N. Rai             | Professor & Head, Environmental Science                        |
| 40.     | Dr. Sudha Arora            | Professor & Head, Electrical Engineering                       |
| 41.     | Dr. P.N. Singh             | Professor, Horticulture  |
| 42.     | Dr. Rajendra Prasad        | Professor, Genetics & Plant Breeding                           |
| 43.     | Dr. V.S. Rajora            | Professor, Veterinary Medicine                                 |
| 44.     | Dr. N.K. Sand              | Professor, Chemistry   |
| 45.     | Dr. Ashutosh Singh         | Professor, CABM  |
| 46.     | Dr. S.P. Uniyal            | Professor, Vegetable Science                                   |
| 47.     | Dr. A.S. Jeena             | Professor, Genetics & Plant Breeding                           |
| 48.     | Dr. V.K. Sah               | Professor, Agroforestry  |
| 49.     | Dr. M.A. Ansari            | Professor, Agricultural Communication                          |
| 50.     | Dr. M.L. Sharma            | Professor, Agricultural Economics                              |

| <b>Sl. No.</b> | <b>Name</b>             | <b>Designation/Department</b>                                |
|----------------|-------------------------|--|
| 51.            | Dr. S.C. Tripathi       | Professor, Veterinary & Animal Husbandry Extension Education |
| 52.            | Dr. Shahnaz Jahan       | Professor, Clothing & Textiles                               |
| 53.            | Dr. Manisha Gahlot      | Professor, Clothing & Textiles                               |
| 54.            | Dr. Anuradha Dutta      | Professor, Foods & Nutrition                                 |
| 55.            | Dr. Neelam Bhardwaj     | Professor, Agricultural Communication                        |
| 56.            | Dr. Kiran Rana          | Assistant Professor, Agricultural Communication              |
| 57.            | Dr. Ramesh Chandra      | Professor, Soil Science                                      |
| 58.            | Dr. K.P. Raverkar       | Professor, Soil Science                                      |
| 59.            | Dr. R.K. Panwar         | Professor, Genetics & Plant Breeding                         |
| 60.            | Dr. Pushpendra          | Professor, Genetics & Plant Breeding                         |
| 61.            | Dr. R.C. Srivastava     | Professor, Physics   |
| 62.            | Dr. Munish Kumar        | Professor, Physics   |
| 63.            | Dr. M.L. Kushwaha       | Professor, Vegetable Science                                 |
| 64.            | Dr. S.K. Guru           | Professor, Plant Physiology                                  |
| 65.            | Dr. Gyanendra Sharma    | Professor, Agricultural Communication                        |
| 66.            | Dr. J.P. Jaiswal        | Professor, Genetics & Plant Breeding                         |
| 67.            | Dr. Ruchi Rani Gangwar  | Assistant Professor, Agricultural Economics                  |
| 68.            | Dr. Promila Sharma      | Professor, Family Resource Management                        |
| 69.            | Dr. Aditi Vats          | Professor, Family Resource Management                        |
| 70.            | Dr. Seema Kwatra        | Professor, Family Resource Management                        |
| 71.            | Dr. A.K. Tyagi          | Assistant Professor, Soil Science                            |
| 72.            | Dr. Jai Paul            | Professor, Soil Science                                      |
| 73.            | Dr. Sanjay Mathur       | Professor, Electronics & Communication Engineering           |
| 74.            | Dr. Preeti Chaturvedi   | Professor, Biological Sciences                               |
| 75.            | Dr. Anita Sharma        | Professor, Microbiology                                      |
| 76.            | Dr. A.P. Singh          | Professor, Soil Science                                      |
| 77.            | Dr. Rohitash Singh      | Professor, Agronomy  |
| 78.            | Dr. Tanuj Kumar Ambwani | Professor, Veterinary Physiology & Biochemistry              |
| 79.            | Dr. Ajay                | Professor, Industrial & Production Engineering               |
| 80.            | Dr. Rajesh P. Singh     | Professor, Irrigation & Drainage Engineering                 |
| 81.            | Dr. Harish Chandra      | Professor, Irrigation & Drainage Engineering                 |
| 82.            | Dr. D.S. Murthy         | Professor, Mechanical Engineering                            |
| 83.            | Dr. B.D. Bhuj           | Professor, Horticulture                                      |
| 84.            | Dr. S.K. Srivastava     | Professor, Agricultural Economics                            |
| 85.            | Dr. R.P. Singh          | Professor, Plant Pathology                                   |
| 86.            | Dr. D.C. Dimri          | Professor, Horticulture                                      |
| 87.            | Dr. Sanjay Kumar        | Professor, Livestock Production Management                   |
| 88.            | Dr. Vir Singh           | Professor, Environmental Science                             |
| 89.            | Dr. R.K. Sharma         | Professor, Livestock Production Management                   |
| 90.            | Dr. Shive Kumar         | Professor, Livestock Production Management                   |
| 91.            | Dr. A.K. Ghosh          | Professor, Genetics & Plant Breeding                         |
| 92.            | Dr. M.S. Negi           | Professor, Agronomy  |
| 93.            | Dr. G.K. Dwivedi        | Professor, Soil Science                                      |
| 94.            | Dr. V.K. Singh          | Professor, Agronomy  |
| 95.            | Dr. K.S. Shekhar        | Professor, Agronomy  |
| 96.            | Dr. R.K. Sahu           | Professor, Plant Pathology                                   |
| 97.            | Dr. C.V. Singh          | Professor, Animal Genetics & Breeding                        |
| 98.            | Dr. A.K. Gaur           | Professor, Molecular Biology & Genetic Engineering           |
| 99.            | Dr. A.K. Singh          | Professor, Horticulture                                      |
| 100.           | Dr. M.S. Pal            | Professor, Agronomy  |