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Supporting Documents-

**Name of the Department: Food Science and
Technology**

**Approved Minutes of BOS Meeting /
Academic Council Highlighting Relevant
Agenda**





MINUTES OF 50th MEETING OF ACADEMIC COUNCIL HELD ON 13th MAY, 2017 AT 11.00 AM AT IKG-PTU MAIN CAMPUS.

Item No. 50.01: To confirm the minutes of 49th Academic Council meeting held on 27th June, 2016.

The council confirmed the minutes of 49th Academic Council meeting.

Item No. 50.02: Action Taken Report (ATR) of the 49th Academic Council Meeting.

The council noted the action taken report of 49th meeting of the Academic council.

It was informed that in UGC guidelines it is recommended to hold minimum three meetings of the council in a year. Accordingly it was decided to fix the schedule of three meetings, which shall be as under Meetings shall as under:

- 1st Meeting: 1st working day of April
- 2nd Meeting: 1st working day of August
- 3rd Meeting: 1st working day of December

Item No. 50.03: Award of Ph.D.

The council recommended following candidates for award of Ph.D. degree to Board of Governors (BOG):

S. No	Registration No.	Date of Viva-Voce	Name	F. Name	Faculty	Branch
1.	1003005	13.06.16	Manish Mahajan	Rakesh Mahajan	Engineering	Computer Science and Engineering
Title of Thesis: Data embedding in rgb images using wavelet domain based visual saliency map						
2.	1003006	15.07.16	Neeraj Mohan	Hans Raj	Engineering	Computer Science and Engineering
Title of Thesis: Traffic grooming and survivability in optical networks						
3.	1109034	02.06.16	Afroze Nazneen	Aftab Ahmad	Business Administration	Management
Title of Thesis : Organizational role stress, organizational commitment and job satisfaction among faculty of higher technical educational institutions: a comparative study of punjab and up.						
4.	07.32.09	25.05.16	Kiran Utreja	P.L. Kinger	Applied Sciences	Mathematics
Title of Thesis : A comparative study of fixed point theorems in various spaces						

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Item No. 50.10: To inform about Progressive Initiatives taken by IKGPTU regarding affiliated institutes.

Members appreciated the quality improvement initiatives of the University and it was decided that no new colleges will be opened to offer in UGC courses and no new course/ extension of seats in existing colleges (AICTE & UGC) shall be allowed for the academic session 2017-18.

Item No. 50.11: Start of B. Tech (Plastic Technology) course.

The proposal was deferred in line with decision taken in agenda item No. 50.10.

Item No. 50.12: Amendment in evaluation system for students in Autonomous Colleges.

The council approved the absolute grading system uniformly for all IKGPTU Main and other Campuses/autonomous and affiliated colleges.

Item No. 50.13 Research Journals for Ph.D. students enrolled in the faculty of Journalism and Mass Communication.

Item was approved.

Item No. 50.14 To approve the minutes of various Board of Studies.

Item was approved.

Item No. 50.15: Mandatory accreditation for UGC and AICTE institutes.

The matter was discussed in detailed. Chairman expressed his concern that there are lot of funds available with Government of India under research and development and other schemes but University and its affiliated colleges are getting only meager amount under these schemes due to non-accreditation of these institutes. Therefore, we should encourage our affiliated college to get accredited from NBA/NAAC.

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Minutes 1st BOS Meeting Food Engineering; 02-05-2017IK Gujral Punjab Technical University
Main CampusM. Tech Food Technology
(Nutrigenomics)

Department of Food Engineering

Minutes of Meeting

The first meeting of the Board of Studies (Food Engineering) was held in the Department of Academics, Conference Hall 2nd floor, IK Gujral Punjab Technical University on 02/05/2017 at 10.00 AM.

The following members were present:

1. Dr. Rajneesh Kant Sachdev, HOD, Food Engineering, IKGPTU (Chairman)
2. Dr. Bhupender Singh Khatkar, Professor, GJUST, Hisar (Member)
3. Dr. Devinder Dhingra, Sr. Scientist, ICAR, Delhi (Member)
4. Dr. Kamlesh Prased, Professor, SLIET, Longowal (Member)
5. Dr. Charanjiv Singh Saini, Associate Professor, SLIET, Longowal (Member)
6. Dr. Shabir Sidhu, Assistant Professor, Food Engineering, IKGPTU (Member)
7. Er. Barinderjit Singh, Assistant Professor, Food Engineering, IKGPTU (Member)

The following members could not attend the meeting due to busy schedule:

8. Dr. Navdeep Sodhi, Professor, GNDU, Amritsar (Member)
9. Dr. Maninder Arora, Professor, PAU Ludhiana (Member)
10. Dr. Ashutosh Upadhyay, Associate Professor, NIFTEM, Sonapat (Member)
11. Dr. Malkiat Singh, INTERTEK, Panchkula (Member)
12. Dr. Manbir Singh, Associate Professor, Khalsa College, Amritsar (Member)
13. S. Navdeepak Sandhu, Dy. Dir., Alumni & Corporate Affairs, IKGPTU (Member)
14. Er. Gazal Sharma, Assistant Professor, Food Engineering, IKGPTU (Member)
15. CII Nominee (Member)

The meeting commenced with the formal introduction of the newly constituted BOS. Chairman BOS took up the formal agenda items point wise.

Item 1.1: To welcome the new Board of Study

Chairman welcomed the new board of studies with the brief introduction about the university, its working and the department of food engineering. The members were informed about functions to be executed by the BOS and all members took keen interest towards contributing towards all functions.

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Item 1.2: To consider the updation of scheme and curriculum of M. Tech. Food Technology (Nutrigenomics)

Deliberations were carried out for finalizing M. Tech. first semester syllabus. The syllabus proposed by Department of Food Engineering was put before the members and following decisions were made:

1. Broad structure of the M. Tech. course will be as follows (annexure-1):
 - Core Courses: 38%
 - Inter-disciplinary and elective courses: 20%
 - Dissertation: 42%
2. The syllabus was finalized with minor modification in three subjects out of seven (annexure-1).
3. The subject codes should be as per UGC guidelines. The subject codes were updated accordingly (annexure-1).
4. The interdisciplinary elective courses from the areas of Basic Sciences/ Management/ Languages/ Journalism and Mass Communication/ Other streams of Engineering/ Human Values and Professional Ethics can be selected by the students.
5. Minimum number of experiments to be conducted in the laboratory is ten out twelve specified in the syllabus (annexure 1).
6. It was decided that supervisor allotment will be done in the first semester itself.
7. The revised curriculum will be applicable from batch 2017 onwards.
8. It is apparent that programme outcomes and course outcomes of M. Tech. Food Technology is as per UGC guidelines and will be formulated and put up in next BOS.

Item 1.3: To finalize the curriculum of B. Tech. Food Technology 7th and 8th semester

1. The curriculum of 7th and 8th semester of B. Tech. Food Technology was finalized (annexure 2).
2. In addition, changes were done in the curriculum of B. Tech. semester third and fourth.
3. Minor modifications were also done in the scheme of 4th semester.
4. These minor changes in the 3rd and 4th semester were approved.
5. The modified syllabus will be applicable from batch 2017 onwards.

Item No. 1.4: To review the proceeding of last meeting of BOS Food Technology in terms of its recommendations for nomenclature of M. Tech. Food Technology (Nutrigenomics)

1. The recommendations of the last BOS w.r.t nomenclature of M. Tech. Food Technology (Nutrigenomics) was reviewed and it was decided that the nomenclature of the course be changed to M. Tech. Food Technology keeping in view the future prospects of the students obtaining this degree. The change of nomenclature will be

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applicable from batch 2017 onwards. Accordingly the contents of the curriculum have been revised and finalized as per the item 1.2.

- 2. Multidisciplinary nature of the course and multidisciplinary faculty has been agreed upon in view of the changing academic scenario worldwide and in particular the areas of food technology/food engineering.

Item No.1.5: To review the eligibility criteria for B. Tech. Food Technology and M. Tech. Food Technology (Nutrigenomics)

- 1. The admission eligibility criteria of M. tech. Food Technology was modified to include following in addition to the existing eligibility criteria
 - a. All the disciplines specified by AICTE under "Engineering and Technology Level: Under Graduate (Sr. no. 119 -123; AICTE approval process Handbook 2017-2018)" in food technology/food engineering discipline.
 - b. To include the word equivalent in the eligibility criteria (annexure 3).
- 2. The admission eligibility criteria for B. Tech. will be at par with other B. Tech. programmes as notified by Government of Punjab (annexure 3).

The meeting ended with vote of thanks to the Chair and the Members by Dr. Shabir Sidhu.

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PROCEEDINGS OF 52ND MEETING OF ACADEMIC COUNCIL HELD ON 16.01.2020 AT 11:00 AM AT IKG-PTU MAIN CAMPUS

Hon'ble Vice-Chancellor-cum-Chairman Academic Council welcomed, wished new year greetings and congratulated on the 24th Foundation Day of the University to all the members. He informed about the visible changes in the recent period and assured the Council that they will definitely see more changes for the growth of University.

Vice Chancellor formally inaugurated the Distance Education Programme and released the Calendar of IKGPTU for 2020.

The Member Secretary (Registrar) also welcomed the Chairman, Academic Council and other members of the Academic Council on 52nd meeting of Academic Council.

Thereafter the regular agenda was briefed by the Dean(Academics) and the same was discussed in detail and proceedings are as under :

A. STATUTORY AGENDA

52.01 To confirm the proceedings of 51st Academic Council meeting held on 16th October, 2018.

The 51st Academic Council meeting was held on 16th October, 2018 and the proceedings were circulated to all members for information and comments. No comments have been received.

The Council confirmed the proceedings of 51st Academic Council meeting.

52.02 Action Taken Report (ATR) of the 51st Academic Council Meeting held on 16th October, 2018.

Dean (Academics) briefed about the Action Taken Report (ATR) on the decisions taken in the 51st meeting.

After going through the details, council approved the Action Taken Report (ATR).

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52.09.2 Creation of new Departments from Academic Session 2019-20

It was informed that the following departments have been established in the Main campus from session 2019-20

- (i) Department of Hotel Management
- (ii) Department of Humanities, Languages and Cultural Studies

The council noted and ratified the above decision.

52.09.3 External Theory & Practical Paper Pattern as proposed by various BOS & Internal Theory & Practical Paper Pattern proposed by BOS-Clinical Research

It was informed that External Theory & Practical Paper Pattern have been proposed by the different Board of Studies.

The council discussed and ratified the recommendations of the Board of Studies.

52.09.4 Change of eligibility for M. Sc (Food Tech) & M. Tech (Food Tech)

Board of Studies for Food Technology has recommended to revise the eligibility criteria of following courses :

- 1. M. Sc (Food Tech)
- 2. M. Tech (Food Tech)

The council ratified the change of eligibility criteria as proposed by the concerned BOS.

52.09.5 Eligibility Criteria for Courses stated at IKGPTU Main Campus as proposed by respective BOS:

The respective Board of Studies have recommended the Eligibility Criteria for the following Courses stated at IKGPTU Main Campus.

Sr. No.	Name of Course
1	B.A (JMC)
2	BHMCT

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Sr. No.	Name of Course
3	B. Sc honors (Physics)
4	B. Sc honors (Chemistry)
5	B. Sc honors (Maths)
6	M. Phill (English) M. Phill (Punjabi) M. Phill (Political Sciences)
7	M. Planning

Council discussed and ratified the eligibility criteria as recommended by the concerned BOS.

52.09.6 Syllabus approved for minor/honors degree in B. Tech program by following BOSs (attached in the respective BOS).

The respective Board of Studies have recommended Syllabus for minor/honors degree in following B. Tech programmes running at IKGPTU Main Campus :

Sl.no.	BOS
1	Computer Science & Engineering
2	Mechanical Engineering
3	Electronics & Comm. Engineering
4	Civil Engineering
5	Electrical Engineering

Council noted and ratified the recommendations of the concerned BOS.

52.09.7 Vision Mission, PEOs and Pos of Different Departments are proposed.

The respective Board of Studies have recommended the Vision Mission, PEOs and POs for the following Departments :

Sl.No.	BOS
1	Food Sci. & Tech
2	Hotel Management & Catering Technology
3	Chemical Sciences
4	Physical Sciences
5	Journalism & Mass Communication

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Sl.No.	BOS
6	Mathematical Sciences
7	Clinical Research
8	Computer Science Engineering
9	Mechanical Engineering
10	Electronics & Communication Engineering
11	Civil Engineering
12	Electrical Engineering

Council noted and ratified the recommendations of the concerned BOS.

52.10 To review Nomenclature of all Courses

Dean (Academics) informed the Council that Members of different board of studies, experts from other state Universities and colleges were invited to review the nomenclature of existing courses and to recommend starting of new courses as per UGC nomenclature.

After detailed discussion the minutes of the committee regarding change of nomenclature of existing courses and starting of new courses as per UGC nomenclature were approved by the council.

52.11 Regarding approval of the updated Course Regulations by the Academic Council, IKGPTU.

Dean (Academics) informed the Council that the committee formed for finalization and recompiling the University regulations drafted by the expert committee constituted by the BOG, IKGPTU in the 55th meeting vide IKGPTU/REG/00/2054 dated 19.09.2019 has proposed to include Course regulations in the University's Academic regulations.

These course regulations were modified from time to time subsequently. Accordingly, after the due approval of Honorable Vice Chancellor, these course regulations were updated/formulated by the Chairman, BOS/Senior faculty members of the University and have been included in the updated draft regulations.

Members were of the view that the updated draft course regulations should be circulated for the comments /suggestions from the members.

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IK GUJRAL PUNJAB TECHNICAL UNIVERSITY
MAIN CAMPUS, KAPURTHALA
DEPARTMENT OF FOOD SCIENCE & ENGINEERING

MINUTES OF MEETING

The 4th meeting of board of studies (Food Science & Engineering) was held in the Department of Academics, Conference Hall 2nd floor at IK Gujral Punjab technical university on 29th July, 2019 at 10:00 Am.

The following members were present:

1. Dr. Rajneesh Kant Sachdev, Chairperson, IKGPTU
2. Dr. Balmeet Singh Gill, GNDU, Amritsar, Member
3. Dr. Kamlesh Prasad, SLIET, Sangrur, Member
4. Dr. Vikas Nanda, SLIET, Sangrur, Member
5. Dr. Manbir Singh, KCL, Amritsar, Member
6. Dr. Amritpal Kaur, GNDU, Amritsar, Member
7. Dr. Bindu, KVK, Kapurthala, Member
8. Dr. Barinderjit Singh, IKGPTU, Member
9. Dr. Bhupinder Singh, CDLSIET, Member
10. Dr. Ankur Ojha, NIFTEM, Member
11. Dr. B.S. Khatkar, GJUST, Hisar, Member
12. Dr. Deep Narayan Yadav, ICAR, Ludhiana, Member
13. Dy. Director, Deptt. of CR&A, IKGPTU, Member
14. Ms. Naval Preet Kaur, Student of M.Sc., IKGPTU
15. Ms. Disha, Student of M.Tech, IKGPTU

M.Tech. Food Technology
M.Sc. Food Technology

The meeting commenced with the formal introduction of the newly constituted BOS. Chairman of BOS took up the formal agenda items point wise.

Item 4.1 To welcome the new board of study

Chairman welcomed the new board of studies with a brief introduction about the university, its working and the department of Food Science & Technology. The members were informed about the function to be executed by the BOS and all the members took a keen interest in contributing all functions.

Item 4.2 To consider the adoption of the scheme and curriculum of M.Sc Food Technology for the students of batch 2018 with minor modifications.

The syllabus and scheme with minor modification were put before the members and the deliberations were carried out on the proposal of minor modification for the adoption of scheme and syllabus of M.Sc Food technology (3rd & 4th semester) for the students till batch 2018. The following decisions were made:

4.2.1 The scheme and syllabus of 3rd & 4th semester were finalized with the proposed minor modification (agenda item 4.2.1a & 4.2.1b) and Program Education Objectives/ Program Outcomes/ Course Objectives & Outcomes for the students of M.Sc food technology (batch 2018) (Annexure 4A).

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4.2.2 The board of studies members gave their consent to ratify the distribution of marks for M.Sc dissertation (batch 2017 and 2018) which was already notified vide notification no IKGPTU/Reg/NF/157 dated on 04/04/2019.

Item 4.3 To consider the adoption of the scheme and curriculum of M.Tech Food Technology for the students of batch 2018 with minor modifications.

4.3.1 The syllabus and scheme with minor modification was put before the members and the deliberations were carried out on the proposal of minor modification for the adoption of scheme and syllabus of M.Tech Food technology (3rd & 4th semester) and Program Education Objectives/ Program Outcomes/ Course Objectives & Outcomes for the students (batch 2018). The consent was given to ratify the distribution of marks for M.Tech dissertation which was already notified vide notification no IKGPTU/Reg/NF/157 dated on 04/04/2019 (Annexure 4B).

4.3.2 The proposed list of relevant MOOC/SWAYAM courses which may replace open elective courses of M.Tech was finalized by all the BOS members (Annexure 4C)

Item 4.4 To consider the updation of the scheme and curriculum of M.Sc Food Technology for batch 2019 onwards.

The syllabus and scheme was put before the members and the deliberations were carried out on the proposal of updation of scheme and syllabus of M.Sc Food technology students with for batch 2019 onwards. The following decisions were made:

4.4.1 The proposed eligibility criteria for M.Sc food technology has been finalized by BOS members from batch 2019 onwards as below

“Bachelor of Science / Applied Science in any subject/ B. Tech Food Technology / Biotechnology/ Sugar Technology/ Sugar and Alcohol Technology/ Fermentation Technology / Dairy Technology/B.Voc. (Food Science & Technology/Agri-Food Technology/Food Processing) /Bachelor in Hotel Management and Catering Technology or any other examination recognized equivalent thereto with at least 50% marks in aggregate”

4.4.2 The proposed scheme and syllabus has been finalized by BOS Members with proposed minor modification (agenda item 4.4.2 a, 4.4.2 b and 4.4.2.d) and Program Education Objectives/ Program Outcomes/ Course Objectives & Outcomes for the students of M.Sc food technology from batch 2019 onwards. The board of studies members gave their consent to ratify the distribution of marks for M.Sc dissertation which was already notified vide notification no IKGPTU/Reg/NF/157 dated on 04/04/2019 as per agenda item 4.4.2 c (Annexure 4D).

4.4.3 The proposed evaluation scheme of internal & external awards (agenda item 4.4.3) of laboratory courses was finalized by all the BOS members as below:

	Marks Distribution*	Particulars	Marks
Internal (Total- 35 Marks)	60%	Internal written exam	21
	~25%	Practical Record	09
	~15%	Attendance	05
External (Total- 15 Marks)	60%	Written exam &/or Performance	09

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40%	Viva	06
Total		50

4.4.4 The proposed evaluation scheme of theory course including sessional /Mst exams as well as continuous mode scheme (agenda item 4.4.4.1, 4.4.4.2) was finalized by all the BOS members as below:

For Internal of 30 Marks	Criteria	Marks Distribution %age*	Marks
	Sessional/MST Exams	60%	18
	Continuous Mode	40%	12
Total Marks			30

For Internal of 15 Marks	Criteria	Marks Distribution %age*	Marks
	Sessional/MST Exams	60%	9
	Continuous Mode	40%	6
Total Marks			15

4.4.4.1. Sessional/MST Exams:

(i) The university regulations regarding awarding of sessional/internal marks will be implemented for M. Sc. Food Technology (IKG.PTU/DA/2224 dated 19.7.2017). According to regulation, there should be two MST exams MST(I) + MST(II). Both the MSTs should be made compulsory for all the students.

(ii) In addition to above, It is recommended that if any student could not be able to appear in one or another MST, it should be the responsibility of the student to request as below

Permission time period	Approving authority
Within 10 days from date of conduct of MST	Head of Department
Within 30 days from date of conduct of MST	Director (Main Campus)
After 30 days	Vice-Chancellor

4.4.4.2 Continuous Mode Scheme

For Internal of 30 Marks	Criteria	Marks Distribution %age*	Maximum Marks
	Attendance	~15%	4
	Home assignment /Presentation	~25%	8
	Total		12

For Internal of 15 Marks	Criteria	Marks Distribution %age*	Maximum Marks
	Attendance	~15%	2
	Home assignment /Presentation	~25%	4
	Total		6

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4.4.5 The proposed guidelines for the allotment of marks for attendance (agenda item no. 4.4.5) was finalized by all the BOS members.

Percentage of Attendance*	Theory (Attendance Maximum Marks 02)	Theory (Attendance Maximum Marks 04)	Practical (Attendance Maximum Marks 05)
More Than 95%	2	04	05
91-95%	1.5	03	04
86-90%	1	02	03
81-85%	1	01	02
75-80%	0.5	0.5	01
< 75% attendance	nil	nil	nil

Item 4.5 To consider the updation of the scheme and curriculum of M.Tech Food Technology for batch 2019 onwards.

The syllabus and scheme was put before the members and the deliberations were carried out on the proposal of updation of scheme and syllabus of M.Tech. Food Technology students for batch 2019 onwards. The following decisions were made:

4.5.1 Modification in eligibility criteria of M.Tech. Food Technology

B. Tech./ B.E. (Food Engineering/ Food Technology/ Food Engineering & Technology/ Food Process Engineering/ Food Process Technology/ Dairy Technology/ Dairy Engineering/ Food Biotechnology/ Agri. Process Engineering/ Agri. Engineering/Biotechnology) or B.Sc. (Hons) in Food Technology, BSc (Hons) Agriculture (with elective/hons in Food Technology/Food Process Engineering) or any equivalent degree with at least 50% (45% in case of candidate belonging to reserved category) marks in aggregate

OR

M.Sc. (Food Science/ Food Technology/ Food Science and Technology/ Food Processing and Technology/ Biotechnology/Agriculture) or any equivalent degree with at least 50% (45% in case of candidate belonging to reserved category) marks in aggregate.

4.5.2 Proposed scheme and syllabus used for M.Tech. Food Technology batch 2019 onward (Annexure J) with modification:

- i) The proposed scheme and syllabus has been finalized by BOS Members with proposed minor modification (agenda item 4.5.2 a, 4.5.2 b) and Program Education Objectives/ Program Outcomes/ Course Objectives & Outcomes for the students of M.Tech. Food Technology from batch 2019 onwards (Annexure 4E).
- ii) The board of studies members gave their consent to ratify the distribution of marks for M.Sc dissertation which was already notified vide notification no IKGPTU/Reg/NF/157 dated on 04/04/2019 as per agenda item 4.5.2 c (Annexure 4E).
- iii) The BOS members gave their consent for inclusion of following courses in M.Tech Food Technology for Batch 2019 onwards (Annexure 4E):
 - a. Two audit courses i.e. Audit I and Audit II (Non-credit) - As per agenda item 4.5.2d.

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- b. Open elective course - As per agenda item 4.5.2e
- c. Research Methodology and IPR course - As per agenda item 4.5.2f
- d. Mini project with Seminar course - As per agenda item 4.5.2g

4.5.3 The proposed list of relevant MOOC/SWAYAM courses which may replace open elective courses of M.Tech was finalized by all the BOS members (**Annexure 4F**)

4.5.4 The proposed evaluation scheme of internal & external awards (agenda item 4.5.4) of laboratory courses was finalized by all the BOS members as below

	Marks Distribution	Particulars	Marks
Internal (Total- 30Marks)	60%	Internal written exam	18
	25%	Practical Record	8
	15%	Attendance	4
External (Total- 20 Marks)	60%	Written exam &/or Performance	12
	40%	Viva	08
Total			50

4.5.5 The proposed evaluation scheme of theory course including sessional /Mst exams as well as continuous mode scheme (agenda item 4.5.5.1, 4.5.5.2) was finalized by all the BOS members.

For Internal of 40 Marks	Marks Distribution %age		Marks
	Sessional/MST Exams	60%	24
	Continuous Mode	40%	16
Total Marks			40

For Internal of 20 Marks	Marks Distribution %age		Marks
	Sessional/MST Exams	60%	12
	Continuous Mode	40%	8
Total Marks			20

4.5.5.1 Sessional/MST Exams:

(i) The university regulations regarding awarding of sessional/internal marks will be implemented for M. Tech. Food Technology (IKG.PTU/DA/2224 dated 19.7.2017). According to regulation, there should be two MST exams MST(I) + MST(II). Both the MSTs should be made compulsory for all the students.

(ii) In addition to above, It is recommended that if any student could not be able to appear in one or another MST, it should be the responsibility of the student to request as below

Permission time period	Approving authority
Within 10 days from date of conduct of MST	Head of Department
Within 30 days from date of conduct of MST	Director (Main Campus)
After 30 days	Vice-Chancellor

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4.5.5.2 Continuous Mode Scheme

For Internal of 16 Marks	Criteria	Maximum Marks
	Attendance	6
	Home assignment /Presentation	10
	Total	16

For Internal of 8 Marks	Criteria	Maximum Marks
	Attendance	3
	Home assignment /Presentation	5
	Total	8

4.5.6 The proposed guidelines for the allotment of marks for attendance (agenda item no. 4.5.6) was finalized by all the BOS members.

Percentage of Attendance	Theory (Attendance Maximum Marks 06)	Theory (Attendance Maximum Marks 03)	Practical (Attendance Maximum Marks 04)
More Than 95%	06	03	04
91-95%	05	2.5	03
86-90%	04	02	02
81-85%	03	1.5	01
75-80%	02	1	0.5
< 75% attendance	nil	nil	nil

4.6 Any other item with the Permission of Chair

The following agenda were put up as table agenda

4.6.1 Vision and mission of Department of Food Science and Technology

The vision and mission of Department of Food Science and Technology was put before the members and the deliberations were carried out on vision and mission of Department of Food Science and Technology. The proposed vision and mission of Department of Food Science and Technology has been finalized by BOS Members

Vision:

To create competent professionals those, contribute towards the economic development of the nation by going in line with the policy of Government of India in the field of food processing food safety and security.

Dept. of Food Science & Technology
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Mission:

- Development of human resources in the field of food science and technology to serve the cause of nation
- Providing a strong theoretical and practical background across the food science discipline with an emphasis on developing sustainable resources to cater food and nutrition related challenges
- Development of human resources in the area of clinical nutrition and research to contribute effectively in making India healthy
- Create favorable environment for innovation to translate theoretical knowledge into practical applications
- Inculcating professional ethical values, innovative research capabilities and leadership abilities
- Holistic development of the youth through the process of self evaluation and continuous improvement

4.6.2 Recommendation of the names of paper setters for external examiners for M.Sc. Food Technology and M.Tech. Food Technology.

The deliberations were carried out on names of paper setters for external examiners for different courses of M.Sc. Food Technology and M.Tech. Food Technology. It is finalized that the names of paper setters for external examiners for M.Sc. Food Technology and M.Tech. Food Technology will be sent by BIS members to Dr. Barinderjit Singh latest by August 12, 2019 through email.

4.6.3 To deliberate on the nature of courses being run in the Department of Food Science and Technology.

The BOS members also suggested that keeping in mind the NAAC/NBA guidelines and requirements and receiving funding from central agencies, it will be appropriate to run different nature of courses (Food Technology/Clinical Research) under Department of Food Science and Technology and Department of Pharmaceutical Sciences, respectively for the holistic growth of faculty and students of the institution.

Meeting ended with vote of thanks by Ms Jyotsna.

- Dr. Balmeet Singh Gill *B.S.Gill 29/7/19*
- Dr. Deep Narayan Yadav *Deep Narayan Yadav 29/7/19*
- Dr. Kamlesh Prasad *K. Prasad 29/7/19*
- Dr. Vikas Nanda *V. Nanda 29/7/19*
- Dr. Manbir Singh *Manbir Singh 29/7/19*
- Dr. Amritpal Kaur *Amritpal Kaur 29/7/19*
- Dr. Bindu *Bindu 29/7/19*
- Dr. Ankur Ojha *Ankur Ojha 29/7/19*
- Dr. Bhupinder Singh *Bhupinder Singh 29/7/19*
- Dr. B.S. Kharkar *B.S. Kharkar 29/7/19*
- Ms. Naval Preet Kaur *Naval Preet Kaur 29/7/19*
- Ms. Disha *Disha 29/7/19*

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29/7/19

B.S.Gill

29/7/19
Dr. Rajwinder (acharya)
Head FST

Dr. Barinderjit Singh

1.1.2 DFST (17)

Dr. Rajneesh Kant Sachdev

Please put up for approval

Convenor (B/S)

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Minutes 1st BOS Meeting MSc Clinical Research: 25-07-2019

**IK Gujral Punjab Technical University
Main Campus**

M.Sc. Clinical Research

Department of Food Science and Technology

Minutes of Meeting

The first meeting of the campus Board of Studies Clinical Research was held in the Department of Academics, Conference Hall 2nd floor, IK Gujral Punjab Technical University on 25/07/2019 at 10.30 AM.

The following members were present:

1. Dr. Rajneesh Kant Sachdev, HOD, Food Engineering, IKGPTU (*Chairperson*)
2. Dr. R.K. Goel, Professor, Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala
3. Dr. Shalini Salwan, Professor, Department of Pharmacology, Punjab Institute of Medical Sciences, Jalandhar
4. Dr. Deepak Prabhakar Bhagwat, Associate Professor, School of Pharmacy, Maharaja Agrasen University
5. Dr. Gaurav Bhargawa, Department of Chemical Sciences, IKGPTU, Main Campus
6. Dr. Megha Sood, Associate Professor, Department of Pharmacology, Punjab Institute of Medical Sciences, Jalandhar
7. Er. Gazal Sharma, Assistant Professor, Department Food Science & Technology, IKGPTU, Main Campus
8. Dr. Shabir Sidhu, Assistant Professor, Department Food Science & Technology, IKGPTU, Main Campus (*Coordinator*)
9. Dr. Anoop Kumar, Assistant Professor, Department of Pharmacology & Toxicology, NIPER, Raebareli.
10. Mr. Ravi Thakur, Student Representative, Department Food Science & Technology, IKGPTU, Main Campus

The following members could not attend the meeting due to busy schedule:

1. Dr. G. D. Gupta, Professor, ISF College of Pharmacy, Moga
2. Dr. Barinderjit Singh, Assistant Professor, Food Engineering, IKGPTU (Member)
3. Dr. Abhishek Kaler, Drug Safety Scientist, Parexel International India Pvt Ltd., Chandigarh
4. Dr. Deepti Rathee, Manager- Aggregate Reports, Worldwide Medical and Safety, Pfizer Healthcare India Pvt. Ltd., Chennai, Tamil Nadu
5. Dy. Director / Assistant Director CR&A, Deptt. of CR&A, IKGPTU

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Minutes 1st BOS Meeting MSc Clinical Research: 25-07-2019

The meeting commenced with the formal introduction of the newly constituted Clinical Research BOS for campus programs. Chairman BOS took up the formal agenda items point wise.

Item 1.1: To welcome the new Board of Study

Chairperson welcomed the new board of studies with the brief introduction about the university, its working and the Department of Food Science and Technology. The members were informed about functions to be executed by the BOS and all members took keen interest in contributing towards all functions. The members were informed that Department of Academics, IKG PTU has issued guidelines regarding MSc. Skeleton for designing of the curriculum. The curriculum thus designed will in line with it.

Item 1.2: To consider the updation of scheme and curriculum of M.Sc. Clinical Research (Batch 2019-21 onwards)

The syllabus of MSc. Clinical Research for batch 2019-21 was finalized for first and second semester after the deliberations and suggestions of BOS. The board decided to adopt the syllabus prepared by previous BOS with necessary modifications and rectifications and the following recommendations have been made:

1. The basic skeleton of MSc. Clinical Research study scheme was finalized by taking into consideration guidelines issued by Department of Academics, IKG PTU, and guidelines issued by UGC including generic electives and discipline specific elective courses.
2. The course codes were assigned as per the guidelines issued by Director Office, Main Campus. The course outcomes of the course were prepared and the mapping of course outcomes and program outcomes was done.
3. The first semester course "Fundamentals of Clinical Research" was revised. The module on intellectual property rights was replaced by pre clinical toxicity studies.
4. The nomenclature of first semester course "Pharmacology" was changed to "General Pharmacology" and the module on animal models of disease and toxicology studies was replaced with basic pharmacokinetics module.
5. The course "Ethics in Clinical Research" in first semester was removed as a separate course. The content of the course "Clinical Research Regulations" was enriched with

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Minutes 1st BOS Meeting MSc Clinical Research: 25-07-2019

- modules on ethics in clinical research. Accordingly, the nomenclature of the course changed to "Clinical Research Regulations & Ethics".
6. In the first semester "Pharmacokinetics" course was removed and in its place, "Clinical Pharmacokinetics" was introduced.
 7. The nomenclature of the course "Human Biology" was changed to "Fundamentals of Physiology". The nomenclature of the courses "Etiopathology & Pharmacotherapy-I" and "Etiopathology and Pharmacotherapy-II" was changed to "Pharmacotherapeutics-I" and "Pharmacotherapeutics-II" respectively.
 8. The content of the course "Pharmacotherapeutics-I" was revised. The content on pharmacoeconomics of this course was added to course "Pharmacoeconomics and Health Technology Assessment".
 9. A new course "International Regulatory Affairs" was introduced in the second semester as discipline specific elective.
 10. In the previous scheme the course type of "Ethics in Clinical Research" was discipline specific elective. In the new scheme this course was replaced by "Intellectual Property Rights" course from the pool of second semester discipline specific elective course.
 11. After detailed deliberation, it was decided to retain journal club course in the first, second and third semester of new study scheme. In this course, the students will be presenting literature, which would give them exposure to the latest advancements in the field and skill enhancement for better scientific communication and critical analysis of data.
 12. Members deliberated that keeping in view the significance of documentation and scientific writing in the field of clinical research Medical Writing course is very important.
 13. The ability enhancement courses, professional communication in the first semester and professional communication lab in second semester were included in the scheme. These courses will foster the ability to communicate both orally and in writing as per the demands of the profession.
 14. The scheme and syllabus as finalized by the BOS is annexed (Annexure 1).

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Item 1.3: To review and finalize Department Vision and Mission statement and Program Educational Outcomes and Program Outcomes of MSc. Clinical Research

1. Members deliberated on the matter of Department Vision and Mission. The members appreciated that foundation of the Department is multi-disciplinary/ inter-disciplinary as per the global trends and demand of time. However, it was felt that minor modifications in the vision and mission of the department are required to reflect the multi-disciplinary/ inter-disciplinary nature of the department and to encompass all the courses running in the department.
2. It was decided that accordingly Department Vision and Mission would be revised. The revised Vision and Mission will be circulated through e-mail to all the members for their suggestions and finalization.
3. It was decided to write a preamble of the program MSc. Clinical Research.
4. The Program Educational Objectives and Program Outcomes prepared by previous BOS were adopted with minor modifications (Annexure 2).

Item No. 1.4: To finalize the curriculum of MSc. Clinical Research semester third and fourth (Batch 2018).

1. The new BOS adopted the study scheme and syllabus prepared by the previous BOS for the batch 2018.
2. The Study scheme and syllabus of first and second semester were adopted as such. However, the scheme and syllabus of third and fourth semester were adopted after few rectifications.
3. The nomenclature of the course "Concepts in Clinical Trials" was changed to "Clinical Study Design".
4. The syllabus of the course "Research Methodology" was revised to include content on meta-analysis.
5. A new course related to research work entitled "Synopsis" of two credits carrying 50 marks was introduced in the third semester study scheme. The evaluation of the course was decided to be internal only. The purpose of the course is to finalize the research problem to be undertaken by the student in the final semester.

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6. The dissertation scheme finalized by the previous BOS was modified as per the new notification issued by Registrar IKGPTU (IKGPTU/Reg/NF/157 dated 04-04-2019).
7. The scheme and syllabus finalized by the BOS is attached (Annexure 3).

Item No.1.5: To review the scheme of internal assessment

1. As per the study scheme, the laboratory courses are of 02 credit points carrying 50 marks.
2. Further, the division of 50 marks is 30 internal and 20 external. The evaluation scheme for awarding internal and external marks was finalized as follows:

Internal (30 Marks)	Continuous Comprehensive Assessment(= 26
	Attendance = 04
External (20 Marks)	Synopsis = 05
	Performance = 10
	Viva = 05
Total	50 Marks

Item No.1.6: To review the scheme of internal assessment

1. As per the study scheme, the internal assessment has two components i.e. continuous mode and sessional exams. The criteria for the evaluation of continuous mode was finalized as follows:
 - a) For theory courses having internal of 30 marks
 - Sessional Exams: 20 Marks
 - Continuous Mode: 10 Marks

Continuous Mode Scheme

Criteria	Maximum Marks
Attendance	4
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	6
Total	10

- b) For theory courses having internal of 15 Marks

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- Sessional Exams: 10 Marks
- Continuous Mode: 05 Marks

Continuous Mode Scheme

Criteria	Maximum Marks
Attendance	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3
Total	5

Item No.1.7: To finalize the guidelines for allotment of marks for attendance

1. One of the components of continuous mode of internal assessment is attendance. The following guidelines for the award of marks for attendance were finalized by the board:

Guidelines for the Allotment of Marks for Attendance

Percentage of Attendance	Theory (Attendance Maximum Marks 04)	Theory(Attendance Maximum Marks 02)	Practical(Attendance Maximum Marks 04)
More Than 93	4	2	4
87-92	3	1.5	3
81-86	2	1	2
75-80	1	0.5	1
Lessthan75	0	0	0

Item No.1.8: To review the matter of minimum credits required for the award of MSc. Clinical Research Degree.

1. The board deliberated in detail on the matter of minimum credits that a student has to earn for the award of degree. The members were of the view that in addition to course work during the degree students should be encouraged to participate in conference, scientific presentations and other activities for the holistic development of the students. Further, it was decided that by participation in such activities students will be awarded credits. These credits will then add up in the final credits earned by the students at the end of degree.

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2. The study scheme of the program has in total 86 credits for the coursework undertaken during the degree and it was decided that for award of degree a student has to earn minimum 90 credits (i.e. $86+04^* = 90$). The remaining credit can be earned by the student through any of the co-curricular activities of his/her choice from the list provided below. Further, it was decided that the maximum credits, which a student can earn, would be 95 (i.e. $86+09^*=95$). The student will earn the credits for co-curricular activities anytime during the duration of MSc.
3. The board also decided that the Head of Department would award these credits in the fourth semester to students.
4. The members agreed the draft of fourth semester DMC displaying the credits of co-curricular activities presented to the board. Further, it was decided that before finalization of the same the matter should be taken up with COE, IKG PTU for resolving administrative issues if any.

Semester Wise Credits Distribution

Semester	Credits
I	22
II	20
III	24
IV	20
Co-curricular Activities	04
Total Credit Points	$86 + 4^* = 90$

*Credits for Co-curricular Activities

*Credits not included towards calculation of CGPA

Guidelines for Awarding Credits for Co-curricular Activities

Name of the Activity	Credit Points
Successful completion of MOOCs Courses other than generic elective (4 weeks)	04
Successful completion of MOOCs Courses other than generic elective (2 weeks)	02
Hospital Training (minimum 4weeks)	02
Participation in Seminar/ Conference/ Workshop/ Symposium/ Training Programs (related to the specialization of the student)	01
Presentation in Seminar/ Conference/ Symposium/ (related to the specialization of the student)	02

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Presentation in Seminar/ Conference/ Symposium/ (related to the specialization of the student) and with award	03
Research / Review Publication in indexed in Scopus / Web of Science	03
Research / Review Publication in peer reviewed journals	02
Minimum ten days residential camp organized by NSS/ Youth Affairs	02
Inter University participation in cultural or sports activity	02
Inter University award in cultural or sports activity	03
Inter College participation in cultural or sports activity	01
Inter College participation in cultural or sports activity	02

5. Subsequent to the BOS meeting, the matter of minimum credits required for award of degree was discussed with COE, IKG PTU. He conveyed that uniformity should be maintained in the credits earned by the student for award of degree. Hence, it was decided that credits for co-curricular activities should be fixed as 04. Thus, all the students will be awarded degree with 90 credits. The students who will obtain 04 credits will be given satisfactory grade.

Draft DMC

Grade Sheet
Master of Science Clinical Research
Semester IV

Name:
Father's Name:
Mother's Name:

Subject Code	Subject	Type	Credits	Grade Int/Ext
xxx	ABCD	Theory	4	B+
yyy	EFGH	Practical	2	A
-	Co-curricular Activities	-	4*	Satisfactory

Credits Registered in the Semester: 20

Semester Grade Point Average (SGPA):

Cumulative Grade Point Average (CGPA):

Total Credits Earned = $86 + 4* = 90$

*Credits not included towards calculation of CGPA

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Item No. 1.9: Addition of MOOCs courses in the pool of Generic Elective Courses.

- The board decided to include the SWAYAM/MOOCs courses in the pool of generic elective courses for all semester. It was also decided that these courses will updated in the list of generic elective courses from time to time in accordance to courses available at the platform.
- The board as given below approved the list of SWAYAM/MOOCs courses for the coming semester.

List of Courses

S. No	Course Title	Start Date	End Date	Duration	Course Type	Exam Date	URL
1	Biochemistry & Molecular Biology	08 Aug. 2019	31 Oct 2019	12 weeks	Elective		https://swayam.gov.in/nd2_cec19_bt02/preview
2	Neuroscience of Human Movements	29 Jul 2019	18 Oct 2019	12 weeks	Elective	16 Nov 2019	https://swayam.gov.in/nd1_noc19_ge28/preview
3	Research Ethics	15 Jul 2019	30 Oct 2019	15 weeks	Core		https://swayam.gov.in/nd2_ugc19_ge04/preview
4	Health Research Fundamentals	29 Jul 2019	20 Sep 2019	8 weeks	Elective	29 Sep 2019	https://swayam.gov.in/nd1_noc19_ge24/preview
5	Organic Chemistry in Biology and Drug Development	29 Jul 2019	18 Oct 2019	12 weeks	Elective	16 Nov 2019	https://swayam.gov.in/nd1_noc19_cy22/preview
6	Ultrafast Optics and Spectroscopy	29 Jul 2019	18 Oct 2019	12 weeks	Elective	17 Nov 2019	https://swayam.gov.in/nd1_noc19_cy28/preview
7	Soft Skills	29 Jul 2019	18 Oct 2019	12 weeks	Elective	16 Nov 2019	https://swayam.gov.in/nd1_noc19_hs33/preview

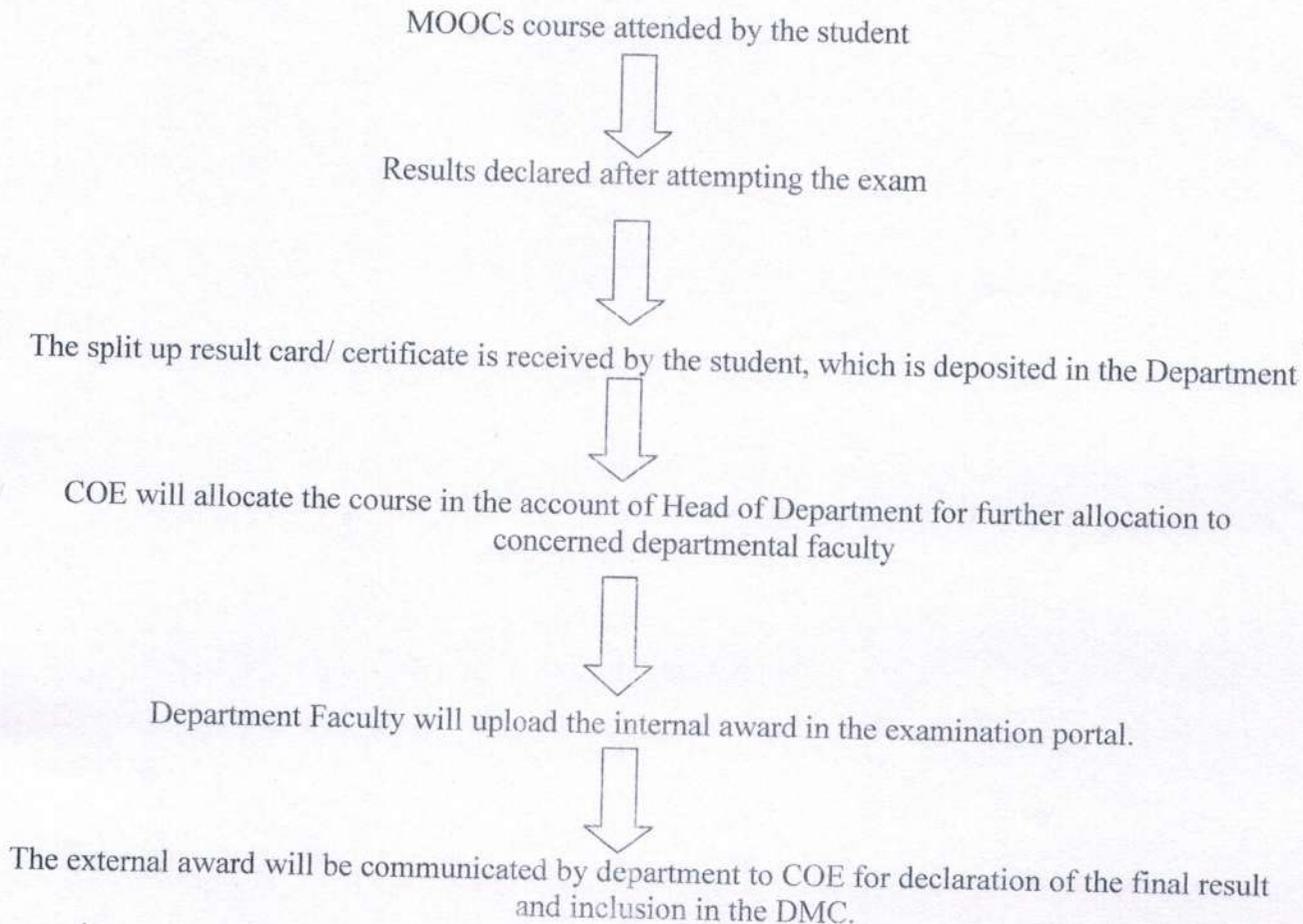
- The members agreed upon the mechanism presented before the board for transfer of credits earned through such courses. Further, it was decided that before finalization of the same the matter should be taken up with COE, IKG PTU for resolving

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administrational issues if any. The proposed mechanism for transfer of credits is as under:



- Subsequent to the BOS meeting, the matter of credit transfer for SWAYAM/MOOCs, was discussed with COE, IKG PTU. He agreed with the proposed mechanism for credit transfer.

Item No. 1.10: Any other item with the permission of chair.

- The matter of end semester exam of the course Biostatistics in Clinical Research was discussed. The question paper was entirely theoretical without any numerical. It was decided that in the next meeting board would draft guideline for the question paper setters for setting end semester exam question papers. Further, it was decided that the

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Minutes 1st BOS Meeting MSc Clinical Research: 25-07-2019

board will prepare a list of question paper setters for the courses and it will be forwarded to examination department.

2. The matter of journal club evaluation scheme was discussed and the scheme was finalized as below:

Evaluation Scheme Journal Club

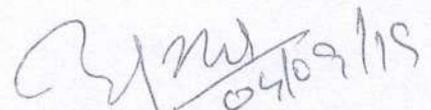
Paper Selection and Content Delivery	10
Power Point Presentation	05
Post Presentation Discussion	10
Total	25

Note: Student will present minimum two papers in each semester

The meeting ended with vote of thanks to the Chair.

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Dr. Rajneesh Kant Sachdev
(Chairperson)

Minutes 2nd BOS Meeting MSc Clinical Research: 27-11-2020

**IK Gujral Punjab Technical University
Main Campus**

Department of Food Science and Technology

Minutes of Meeting

The second meeting of the campus Board of Studies Clinical Research was held 27/11/2020 at 11:00 AM through Skype.

The following members were present:

1. Dr Rajneesh Kant Sachdev, HOD, Food Engineering, IKGPTU (*Chairperson*)
2. Dr R.K. Goel, Professor, Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala
3. Dr Shalini Salwan, Professor, Department of Pharmacology, Punjab Institute of Medical Sciences, Jalandhar
4. Dr G. D. Gupta, Professor, ISF College of Pharmacy, Moga
5. Dr Deepak Prabhakar Bhagwat, Associate Professor, School of Pharmacy, Maharaja Agrasen University
6. Dr Megha Sood, Associate Professor, Department of Pharmacology, Punjab Institute of Medical Sciences, Jalandhar
7. Dr Gazal Sharma, Assistant Professor, Department Food Science & Technology, IKGPTU, Main Campus
8. Dr Shabir Sidhu, Assistant Professor, Department Food Science & Technology, IKGPTU, Main Campus (*Coordinator*)
9. Dr Anoop Kumar, Assistant Professor, Department of Pharmacology & Toxicology, NIPER, Raebareli.
10. Dr Deepti Rathee, Manager- Aggregate Reports, Worldwide Medical and Safety, Pfizer Healthcare India Pvt. Ltd., Chennai, Tamil Nadu

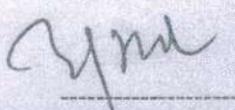
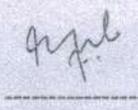
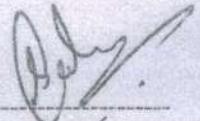
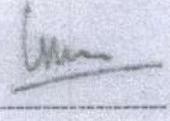
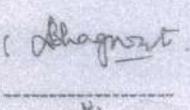
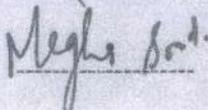
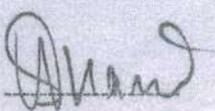
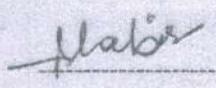
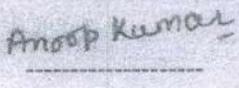
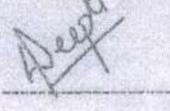
The following members could not attend the meeting due to busy schedule:

1. Dr Gaurav Bhargawa, Department of Chemical Sciences, IKGPTU, Main Campus
2. Dr Barinderjit Singh, Assistant Professor, Food Engineering, IKGPTU (Member)
3. Dr Abhishek Kaler, Drug Safety Scientist, Parexel International India Pvt Ltd., Chandigarh
4. Dy. Director / Assistant Director CR&A, Deptt. of CR&A, IKGPTU
5. Mr Ravi Thakur, Student Representative, Department Food Science & Technology, IKGPTU, Main Campus

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Chairperson BOS took up the formal agenda items point wise.

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Updation of scheme & curriculum of Msc. Clinical Research (Batch 2020 onward)

2.3.1.3 Updation of scheme

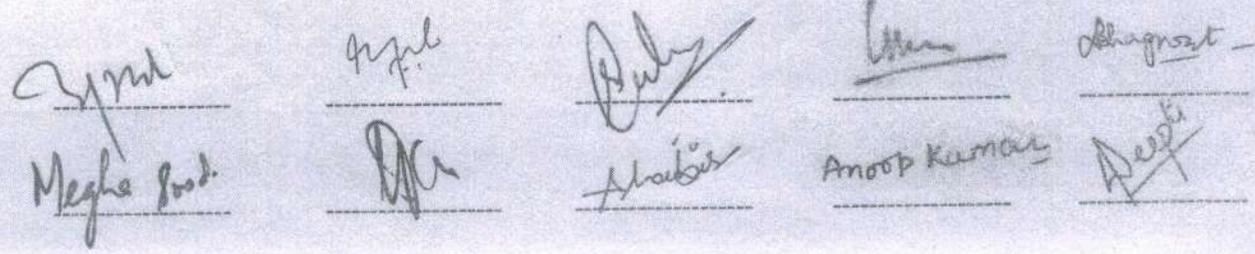
In the previously approved scheme SWAYAM/MOOCs courses are included under the mandatory category of "Generic Elective". During implementation of this practical difficulties were encountered at the university level like assigning of unique course codes as per university system of coding of the courses. Further, if any student is not able to clear the exam of the course in first attempt the student will not be awarded the certificate which would show in the DMC of student as back log. In light of these points, it was decided to temporarily remove these courses from the mandatory category of "Generic Elective" till these difficulties are resolved. It is pertinent to mention that SWAYAM/MOOCs courses will remain part of co-curricular activities in the scheme.

The syllabus of courses, Medical Writing, Quality Management in Clinical Trials, Clinical Study Design, Clinical Trial Operations and Clinical Research Regulation & Ethics was revised and accordingly the codes were also revised. The new approved scheme is as follows:

Second Semester

Course Code	Course Type	Course Name	Load			Marks			Credits
			L	T	P	Internal	External	Total	
UC-MSCR201-19	Core Theory	Pharmacotherapeutics -I	3	1	-	30	70	100	4
UC-MSCR202-20	Core Theory	Clinical Research Regulations & Ethics	3	1	-	30	70	100	4
UC-MSCR203-19	Core Practical	Clinical Research Lab II	-	-	4	30	20	50	2
UC-MSCR204-19	Ability Enhancement	Professional Communication Lab	-	-	4	30	20	50	2
UC-MSCR205-20	Skill Enhancement	Medical Writing	-	-	4	15	35	50	2
UC-MSCR206-19	Skill Enhancement	Journal Club	-	-	4	50	-	50	2
UC-MSCRXXX	Discipline Specific Elective Theory	Elective -III	2	-	-	15	35	50	2
UC-MSCRYYY	Generic Elective Theory	Elective -IV	2	-	-	15	35	50	2
Total			12	2	12	215	285	500	20

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Discipline Specific Elective Theory (Elective-III)

Subject Code	Subject Name
UC-MSCR 211-19	Fundamentals of Epidemiology
UC-MSCR 212-19	International Regulatory Affairs

Generic Elective Theory (Elective-IV)

Subject Code	Subject Name
UC-MSCR 213-19	Biostatistics in Clinical Research
UC-MSCR 214-19	Poisoning and Management

Third Semester

Course Code	Course Type	Course Name	Load			Marks			Credits
			L	T	P	Internal	External	Total	
UC-MSCR301-19	Core Theory	Pharmacotherapeutics -II	3	1	-	30	70	100	4
UC-MSCR302-20	Core Theory	Clinical Study Design	3	1	-	30	70	100	4
UC-MSCR303-19	Core Theory	Research Methodology	2	-	-	15	35	50	2
UC-MSCR304-19	Core Theory	Pharmacovigilance	2	-	-	15	35	50	2
UC-MSCR 305-19	Core Practical	Clinical Research Lab III	-	-	4	30	20	50	2
UC-MSCR 306-19	Skill Enhancement	ICT Skills Lab	-	-	4	30	20	50	2
UC-MSCR 307-19	Skill Enhancement	Journal Club	-	-	4	50	-	50	2
UC-MSCR 308-19	Research Work	Synopsis	-	-	4	50	-	50	2
UC-MSCR XXX	Discipline Specific Elective Theory	Elective -V	2	-	-	15	35	50	2
UC-MSCRYYY	Generic Elective Theory	Elective -VI	2	-	-	15	35	50	2
Total			14	2	16	280	320	600	24

Deptt. of Food Science & Technology
 I.K. Gujral Punjab Technical University
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 Head

[Signatures and dates]

Megha Sood
 Anoop Kumar
 14/11/20

Minutes 2nd BOS Meeting MSc Clinical Research: 27-11-2020

Discipline Specific Elective Theory (Elective-V)

Subject Code	Subject Name
UC-MSCR 311-20	Clinical Trial Operations
UC-MSCR 312-19	Medical Coding

Generic Elective Theory (Elective-VI)

Subject Code	Subject Name
UC-MSCR 313-19	Pharmacoeconomics & Health Technology Assessment
UC-MSCR 314-20	Quality Management of Clinical Trials

2.3.1 3 Updation of curriculum

The syllabus of the following courses was updated (annexure-I):

1. Clinical Research Regulations & Ethics (UC-MSCR 202-20)
2. Medical Writing (UC-MSCR 205-20)
3. Clinical Study Design (UC-MSCR 302-20)
4. Clinical Trial Operations (UC-MSCR 311-20)
5. Quality Management in Clinical Trials (UC-MSCR 314-20)

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 JALANDHAR

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 Megha Sood

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 Shabir

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 Anoop Kumar

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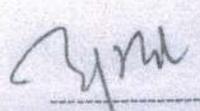
 Deepthi

Minutes 2nd BOS Meeting MSc Clinical Research: 27-11-2020

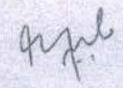
Annexure-I

Course Code	Course Title	Teaching Load			Marks		Exam (hrs)		Credits
		L	T	P	Int.	Ext.	Int.	Ext.	
UC-MSCR 202-20	Clinical Research Regulations & Ethics	3	1	-	30	70	1.5	3	4
Module-I									09 Hrs
Evolution of Regulatory Control									
European Medicines Agency (EMA)									
Vaccine Act, Biological Control Act, Pure food drugs act, Food and Drug Administration (FDA), Kefauver Harris amendments act, Waxman Hatch act, Code of federal regulations, PDUFA									
International Council for Harmonisation (ICH)									
Drugs and cosmetic act 1940 and rules 1945									
Module-II									13 Hrs
Regulatory Aspects of Different Regions									
Investigational New Drug (IND), New Drug Application (NDA), Abbreviated New Drug Application (ANDA), Paper NDA									
Market authorization holders (MAH), its procedures									
Regulation of medical devices									
Regulation of vaccines									
Safety Report filing									
Regulation of non-prescription drugs									
Regulation of Complementary Medicine									
Module-III									14 Hrs
Regulatory Guidelines									
International Conference on Harmonization (ICH) GCP guidelines									
Overviews of good laboratory practice (GLP)									
Schedule Y of Indian Drugs and Cosmetic Act, New Drugs and Clinical Trials Rules (2019)									
Basic regulation of bioavailability/ bioequivalence (BA/BE) studies									
Common Technical Document: Format of dossier									
Module-IV									09 Hrs
Ethics in Clinical Research									
Evolution of ethics in clinical research: Nazi human experimentation, Thalidomide disaster, Tuskegee experiment, Nuremberg Code, Declaration of Helsinki, Belmont report									
Establishment of Council for International Organizations of Medical Sciences (CIOMS), National Institutes of Health (NIH) and Indian Council of Medical Research (ICMR) guidelines									
Compensation to subjects/patients for clinical trial related injuries									

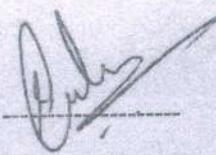
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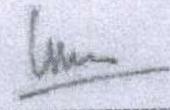
 Megha Sodhi



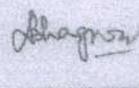
 Anshu



 Shikhar



 Anoop Kumar



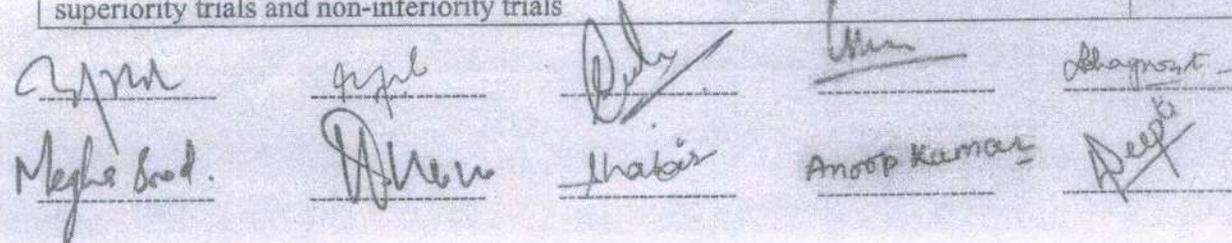
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14/09/20

Minutes 2nd BOS Meeting MSc Clinical Research: 27-11-2020

Course Code	Course Title	Teaching Load			Marks		Exam (hrs)		Credits
		L	T	P	Int.	Ext.	Int.	Ext.	
UC-MSCR 205-20	Medical Writing	2	-	-	15	35	1	2	2
Module-I									12 Hrs
Introduction to Medical writing and Healthcare Communication									
The Writing Process: prewriting strategies and steps in writing process									
Online search techniques									
Rules of writing: basic structure of write up; plagiarism and copyrights									
Module-II									12 Hrs
Scientific Writing: writing case reports, drug monograph and abstract writing									
Regulatory writing: medical writing in clinical research, study design, observational studies, experimental studies									
ICH-E3 guidelines-Structure and content of clinical study reports									
Common Technical Document: Format of dossier, eCTD									

Course Code	Course Title	Teaching Load			Marks		Exam (hrs)		Credits
		L	T	P	Int.	Ext.	Int.	Ext.	
UC-MSCR 302-20	Clinical Study Design	3	1	-	30	70	1.5	3	4
Module-I									12 Hrs
Inclusion and exclusion criteria									
Screening and recruitment of subjects									
Methods of randomization, blinding									
Placebo									
Endpoints: primary, secondary, composite, surrogate									
Module-II									12 Hrs
Type of Studies									
Observational studies: case report, case series, cross-sectional studies, case control study, cohort study, relative risk and odd ratio									
Experimental studies: randomized trial, open label study, cross over, equivalence trials, superiority trials and non-inferiority trials									



 Megha Bood. Anoop Kumar Deepthi

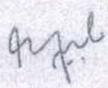
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Minutes 2nd BOS Meeting MSc Clinical Research: 27-11-2020

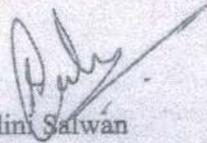
Course Code	Course Title	Teaching Load			Marks		Exam (hrs)		Credits
		L	T	P	Int.	Ext.	Int.	Ext.	
UC-MSCR 314-20	Quality Management in Clinical Trials	2	-	-	15	35	1	2	2
Module-I									12 Hrs
Quality Control, Quality Assurance and Total Quality Management									
Overview of QA and QC in clinical trials and their comparison									
Total quality management									
Good clinical practice guidelines for quality assurance									
Corrective and Preventive Action (CAPA) program, Root Cause Analysis (RCA)									
Module-II									12 Hrs
Audits/Inspections									
Audits, its process and important aspects, types of audits									
Clinical Quality Assurance Audit									
Regulatory inspections									
Source document verification									
Risk based quality management & monitoring									

The meeting ended with vote of thanks to the Chair.

Dr R.K. Goel



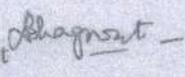
Dr Shalini Salwan



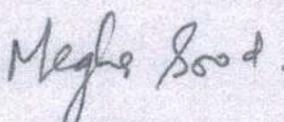
Dr G. D. Gupta



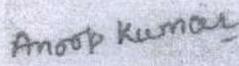
Dr Deepak Prabhakar Bhagwat



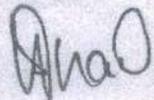
Dr Megha Sood



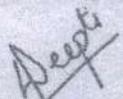
Dr Anoop Kumar



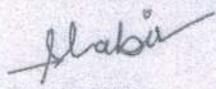
Dr Gazal Sharma



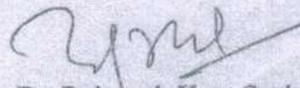
Dr Deepti Rathee



Dr Shabir Sidhu



Dr. Rajneesh Kant Sachdev
(Chairperson)



21/11/20

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Note No. #1

Subject: Agenda of BOS Meeting Clinical Research

The second meeting of BOS Clinical Research is scheduled for 27-11-2020. The agenda of the meeting is attached.

Submitted for further necessary action.

📎 **Agenda Borad of Studies Clinical Research.pdf**

26/11/2020 4:37 PM

DR. SHABIR SIDHU
(AP(FOOD SCI & TECH))

Note No. #2

Recommended for approval of agenda as per note 1

26/11/2020 5:56 PM

DR. RAJNEESH SACHDEVA
(HOD(FOOD SCI & TECH))

Note No. #3

Do the approval for conducting such meeting was taken in a separate file?

27/11/2020 1:15 PM

DR. NEEL KANTH GROVER
(DIRECTOR(MAIN CAMPUS))

Note No. #4

Please Discuss.

01/12/2020 11:36 AM

DR. RAJNEESH SACHDEVA
(HOD(FOOD SCI & TECH))

Note No. #5

Matter discussed. Find attached the signed minutes of B00S Clinical Research 2nd meeting.

Submitted for approval and further necessary action.

Head
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Handwritten signature and date: 10/10/20

12/01/2021 10:38 AM

DR. SHABIR SIDHU
(AP(FOOD SCI & TECH))

Note No. #6

Recommended for approval and inclusion in agenda for next Academic Council Meeting

12/01/2021 11:12 AM

DR. RAJNEESH SACHDEVA
(HOD(FOOD SCI & TECH))

Note No. #7

Recommended and forwarded for approval please.

12/01/2021 7:43 PM

DR. NEEL KANTH GROVER
(DIRECTOR(MAIN CAMPUS))

Note No. #8

[REDACTED]

13/01/2021 12:07 PM

DR. RAJNEESH SACHDEVA
(HOD(FOOD SCI & TECH))

Note No. #9

13/01/2021 4:33 PM

DR. NEEL KANTH GROVER
(DIRECTOR(MAIN CAMPUS))

Note No. #10

For needful please

14/01/2021 10:43 AM

DR. RAJNEESH SACHDEVA
(HOD(FOOD SCI & TECH))

Head
Deptt. of Food Science & Technology
J.K. Gujral Punjab Technical University
KAPURTHALA

Handwritten signature and date: 13/09/21

1.1.2 DFST (51) 7

PROCEEDINGS OF 52ND MEETING OF ACADEMIC COUNCIL HELD ON 16.01.2020 AT 11:00 AM AT IKG-PTU MAIN CAMPUS

Hon'ble Vice-Chancellor-cum-Chairman Academic Council welcomed, wished new year greetings and congratulated on the 24th Foundation Day of the University to all the members. He informed about the visible changes in the recent period and assured the Council that they will definitely see more changes for the growth of University.

Vice Chancellor formally inaugurated the Distance Education Programme and released the Calendar of IKGPTU for 2020.

The Member Secretary (Registrar) also welcomed the Chairman, Academic Council and other members of the Academic Council on 52nd meeting of Academic Council.

Thereafter the regular agenda was briefed by the Dean(Academics) and the same was discussed in detail and proceedings are as under :

A. STATUTORY AGENDA

52.01 To confirm the proceedings of 51st Academic Council meeting held on 16th October, 2018.

The 51st Academic Council meeting was held on 16th October, 2018 and the proceedings were circulated to all members for information and comments. No comments have been received.

The Council confirmed the proceedings of 51st Academic Council meeting.

52.02 Action Taken Report (ATR) of the 51st Academic Council Meeting held on 16th October, 2018.

Dean (Academics) briefed about the Action Taken Report (ATR) on the decisions taken in the 51st meeting.

After going through the details, council approved the Action Taken Report (ATR).



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52.03 Award of Ph.D.

It was informed that on the recommendations of the RDC, 245 candidates have completed the requirement for the award of Ph.D. degree.

The council recommended the names of 245 candidates (as per Annexure- I) to award Ph.D Degree to Board of Governors (BOG) for approval.

B. AGENDA FOR RATIFICATION

52.04 To ratify the decisions taken by the Chairman, Academic Council in anticipation of the approval of the Academic Council.

52.04.1 To approve minutes of various Board of Studies for revision of syllabus / scheme of Programmes.

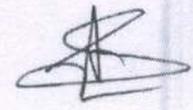
It was informed that Keeping in view the demand of the Industry and latest trends in technical education, various Board of Studies of the University have revised the course curriculum /scheme of different programmes. The revised scheme and syllabus is available on University website <https://www.ptu.ac.in/Syllabus/..aspx>

The recommendations of various Board of Studies of the University regarding revision of course curriculum /scheme of different programmes were discussed in detail and ratified.

52.04.2 Academic Calendar for session 2018-19 (Even semester) & session 2019-20 (Odd and Even semesters)

The Academic Calendar for session 2018-19 (Even Semester) & session 2019-20 (Odd & Even Semesters) was prepared by University after incorporating observation of the affiliated colleges and have been uploaded on the University website.

Academic Calendar for session 2018-19 (Even Semester) & session 2019-20 (Odd & Even Semesters) were ratified by the Council.



21/10/21

1.1.2 DFS (33)
Pre-PhD Course work
Pharmacy

Minutes of meeting of Board of Studies Pharmacy held on August 20, 2019 at 10:30 am in the office of Director Academics, IK Gujral Punjab Technical University Jalandhar.

The following member were present:

- Prof. (Dr.) G. D. Gupta, Director-Cum-Principal, ISF College of Pharmacy, Moga (Chairman)
- Dr. Chander Mohan, RBIP, Hosiarpur (Vice-Chairman)
- Dr. M. Arockia Babu, Principal, Chandigarh College of Pharmacy, Landran, Mohali (Member)
- Dr. Puneet Utereja, PCTE, Baddowal (Member)
- Dr. Shamsher Singh, ISF College of Pharmacy, Moga (Member)
- Dr. Anjoo Kamboj, Chandigarh College of Pharmacy, Landran (Member)
- Dr. Jagdeep Singh Dua, SCPN, Nangal (Member)
- Dr. Vandana Kharb, Sachdeva College of Pharmacy, Kharar (Member)
- Dr. Anupam Sharma, Professor, UIPS, Panjab University, Chandigarh (Member)
- Dr. Subheet Jain, Deptt. of Pharmaceutical Sciences, GNDU Amritsar, (Member)
- Dr. Shabir Sidhu, Assistant Professor, Main Campus IKGPTU (Member-Coordinator)

The following members could not attend the meeting :

- Dr. D. N. Prasad, Principal Shivalik College of Pharmacy, Nangal (Member)
- Dr. Gurpreet Kaur, Akal College of Pharmacy, Mastuana (Member)
- Dr. Pradeep Saha, Assistant Professor, SCPN, Nangal (Member)
- Dr. Pawan Krishan, Professor, Deptt of Pharmaceutical Sciences, Punjab University, Patiala (Member)
- Dy. Director / Assistant Director CR&A, Department of CR&A, IKGPTU (Member)

Dr. G.D. Gupta, Chairperson of BOS Pharmacy welcomed the members. The agenda for discussion were taken up and following were resolved.

Agenda 1: To discuss and finalize the Ph.D course work for the session 2019 onwards.

Decision: The Board discussed and finalized the study Scheme and Syllabus of Ph.D course work for the session 2019 onwards. Copy is attached as Annexure-A

Agenda 2: To discuss and assign the subject codes of Pharm. D for the session 2019 onwards.

Decision: The Board deliberated and finalized the subject codes of Pharm. D for the session 2019 onwards. The copy is attached as Annexure-B

Agenda 3: To discuss and finalize the evaluation scheme of Research Work in M. Pharma program for the session 2019 onwards.

Decision: The Board discussed the issue related to assigning credits for Co-curricular Activities. It was decided that two credit points will be given to the students participating in National Level Seminar/ Conference/ Workshop/ Symposium/ Training Programs (related to the specialization of the student) OR Academic Award/Research Award from State Level/National Agencies.

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Further, it was again emphasized that the credits for Co-Curricular Activities will not be included towards the calculation of CGPA as per PCI regulations. The same shall be shown in the DMC as “*Credits not included towards the calculations of CGPA”. As an example DMC issued by Panjab University Chandigarh is attached as Annexure-C

Agenda 4: To discuss and finalize the study scheme of B. Pharm (LEET) to incorporate courses “Communication Skills” and “Computer Applications in Pharmacy”.

Decision: The Board deliberated and decided that for batch 2018, students will study the courses “Communication Skills” and “Computer Applications in Pharmacy” upto 5th semester for batch 2019, students will study “Communication Skills” in 3rd semester and “Computer Applications in Pharmacy” in 4th semester.

The meeting ended with the vote of thanks to the chair.

Dr. Subheet Jain

Dr. Chandan Mohan

Dr. M. Arockia Babu

Dr. Puneet Utereja

Dr. Shamsheer Singh

Dr. Anjoo Kamboj

Dr. Jagdeep Singh Dua

Dr. Vandana Kharb

Dr. Anupam Sharma

Dr. Shabir Sidhu

Prof. (Dr.) G. D. Gupta
(Chairperson BOS)

Head
Deptt. of Food Science & Technology
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Item No. 50.05: Academic Calendar Session 2017-18.

After detailed deliberations, it was decided that there should be two mid term examinations instead of three so that more working days shall be available for teaching. Out of two mid term examinations best shall be considered for internal assessment.

It was also decided that Academic Session shall start from 1st working day of July for existing students. The proposed modified Academic Calendar for Session 2017-18 shall be circulated to all the members before finalizing. It was also decided that even semester should start from 2nd working day of January.

Item No. 50.06: Amendment in M. Tech. Regulations.

The council approved the proposed amendments.

Item No. 50.07: Golden Chance.

Council allowed the golden chance to old students who could not complete their degree within stipulated period. It was further decided that the examination for this chance should be held in the University campus only.

It was further decided that a social study should be conducted regarding the detailed socio-academic economic reasons for students appearing in golden change. On the basis of the study the University should take remedial measured to ameliorate the situation.

Item No. 50.08: Ph.D. Course work 2016-17.

Dean (R & D) informed the council that the proposed Ph.D. course work has already been implemented from session 2016-17 with the approval of BOG.

Council noted the item.

Item No. 50.09: Change of Nomenclature of some UGC (Non-AICTE) courses.

Council accepted the proposed nomenclature for implementation.

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16/5/17

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Deptt. of Food Science & Technology
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10/09/21



MINUTES OF 50th MEETING OF ACADEMIC COUNCIL HELD ON 13th MAY, 2017 AT 11.00 AM AT IKG-PTU MAIN CAMPUS.

Item No. 50.01: To confirm the minutes of 49th Academic Council meeting held on 27th June, 2016.

The council confirmed the minutes of 49th Academic Council meeting.

Item No. 50.02: Action Taken Report (ATR) of the 49th Academic Council Meeting.

The council noted the action taken report of 49th meeting of the Academic council.

It was informed that in UGC guidelines it is recommended to hold minimum three meetings of the council in a year. Accordingly it was decided to fix the schedule of three meetings, which shall be as under Meetings shall as under:

- 1st Meeting: 1st working day of April
- 2nd Meeting: 1st working day of August
- 3rd Meeting: 1st working day of December

Item No. 50.03: Award of Ph.D.

The council recommended following candidates for award of Ph.D. degree to Board of Governors (BOG):

S. No	Registration No.	Date of Viva-Voce	Name	F. Name	Faculty	Branch
1.	1003005	13.06.16	Manish Mahajan	Rakesh Mahajan	Engineering	Computer Science and Engineering
Title of Thesis: Data embedding in rgb images using wavelet domain based visual saliency map						
2.	1003006	15.07.16	Neeraj Mohan	Hans Raj	Engineering	Computer Science and Engineering
Title of Thesis: Traffic grooming and survivability in optical networks						
3.	1109034	02.06.16	Afroze Nazneen	Aftab Ahmad	Business Administration	Management
Title of Thesis : Organizational role stress, organizational commitment and job satisfaction among faculty of higher technical educational institutions: a comparative study of punjab and up.						
4.	07.32.09	25.05.16	Kiran Utreja	P.L. Kinger	Applied Sciences	Mathematics
Title of Thesis : A comparative study of fixed point theorems in various spaces						

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16/5/17

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21/10/17

Annexure
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1.1.2 DFST-27

Annexure-1

IKG-Punjab Technical University
Kapurthala

Pre-PhD Course work
Biotechnology

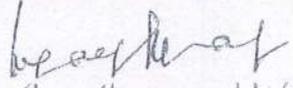
Minutes of Meeting

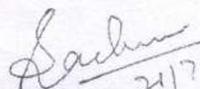
A meeting of experts for designing and updating of syllabus for pre-PhD course work was held on 21st July in the office of Dean, RIC.

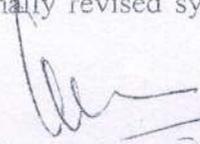
The following members were present:

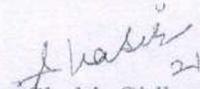
1. Professor V.K. Kapoor, Former Dean and Chairman, Faculty of Pharmacy, Panjab University, Chandigarh
2. Professor G.D. Gupta, Director-Principal, A.S.B.A.S.J.S. Memorial College of Pharmacy, Bela
3. Dr. Sachin Kumar, Scientist, SSS National Institute of Renewable Energy, Kapurthala
4. Dr. Shabir Sidhu, IKG-PTU

The committee members thoroughly studied the proposed syllabi of different subjects and suggested modifications, deletions and alterations. The finally revised syllabi are approved and attached as annexure herewith.


V.K. Kapoor 21/7/16


Sachin Kumar 21/7/16


G.D. Gupta 21/7/16


Shabir Sidhu 21/7/16

Head
Department of Science & Technology
University

21/7/16

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITYEstd. Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. : IKGPTU/Reg/N/

Dated :

NOTIFICATIONSub: **Regarding Pre-Ph.D Course work.**

This is for information of all concerned that **Pre-Ph.D course work from 2016-17** will be conducted in the IKGPTU main campus Kapurthala in regular mode. The PhD course work will consists of minimum 15 credits. The structure of the course work is as under.

Sr. No.	Nature of course	Name of course	Credits	Remarks
1.	Core	1. Research Methodology	4	The syllabus of RM should be formulated faculty wise such as Engineering, Science, Management/ Humanities and Life sciences
		2. Subject related theory paper	4	Discipline specific related to advancements in theoretical methods for research
		3. Presentation	3	Discipline specific
2.	Interdisciplinary	4. Elective	4	From list of subjects from allied fields
Total Minimum credits			15	

-Sd-
Registrar

Endorsement NO: IKGPTU/REG/N/ 4244-4251

Dated: 22.08.2016

1. Secretary to Vice Chancellor: For kind information of Vice Chancellor
2. Dean (P&D)
3. Dean (RIC)
4. Dean (Academics)
5. Finance Officer
6. Controller of Examination
7. DR (Computers): For uploading on website
8. File Copy

Registrar

I. K. Gujral Punjab Technical University, Jalandhar
Jalandhar Kapurthala Highway, Near Pushpa Gujral Science City, Kapurthala - 144 603
Ph. No. 01822 - 662521, 662501 Fax No. : 01822-255306, 662526. Email : registrar@ntu.ac.in

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IK GUJRAL PUNJAB TECHNICAL UNIVERSITY
MAIN CAMPUS, KAPURTHALA
DEPARTMENT OF FOOD SCIENCE & ENGINEERING
MINUTES OF MEETING

The 5th meeting of board of studies (Food Science & Engineering) was held in the Department of Academics, Conference Hall 2nd floor at IK Gujral Punjab technical university on 5th Feb, 2019 at 10:00 am.

The following members were present:

1. Dr. Rajneesh Kant Sachdev, Chairperson, IKGPTU
2. Dr. Balmeet Singh Gill, GNDU, Amritsar, Member
3. Dr. Manbir Singh, KCL, Amritsar, Member
4. Dr. Amritpal Kaur, GNDU, Amritsar, Member
5. Dr. Bindu, KVK, Kapurthala, Member
6. Dr. Barinderjit Singh, IKGPTU, Member
7. Dr. Bhupinder Singh, CDLSIET, Member
8. Dr. Sukhwinder Singh, CPRS, Jalandhar
9. Mr. M.S. Bedi, Dy. Director, Deptt. of CR&A, IKGPTU, Member

The meeting commenced with the action taken report of 4th BoS Meeting. Chairman of BOS took up the formal agenda items pointwise.

Item 5.1 To confirm the action taken report of the fourth Board of Study Meeting

Chairman briefed about the action taken report of 4th BOS Meeting. BOS members decided to deliberate on the action taken report of 4th BOS Meeting in next meeting due to the non-availability of a few senior BOS members.

Item 5.2 To finalize the scheme and syllabus of Ph.D. Food Science and Technology

1. The proposed scheme and syllabus were put before the members.
2. Unanimously following suggestion were made by BOS members regarding syllabus of PhD
 - a. As per the UGC letter no. D.O. No. F.1-1/2018(Journal/CARE) dated December, 2019, Course of Research and Publication Ethics (RPE) has been adopted as such into the compulsory subject (Two Credits) list of PhD course work scheme and syllabus (**Annexure A**-UGC Letter, **Annexure B**- Syllabus of Research and Publication Ethics (RPE)).
 - b. The all other proposed course contents were deliberately modified as per suggestion proposed by BOS members as **Annexure C**.

Item 5.3 Any other item with the Permission of Chair

NA

Meeting ended with vote of thanks by Dr. Barinderjit Singh.

Dr. Balmeet Singh Gill

Dr. Manbir Singh

Dr. Amritpal Kaur

Dr. Bindu

Dr. Bhupinder Singh

Dr. Sukhwinder Singh

Mr M. S. Bedi

Dr. Barinderjit Singh

BSSG
24/2/20

Manbir
24.2.2020

Amritpal
24/2/2020

Bindu

Bhupinder
24/2/2020

Sukhwinder
24/2/2020

MSB
24/2/20

Barinderjit
24/2/2020

Dr. Rajneesh Kant Sachdev

Head
Deptt. of Food Science & Tech
I.K. Gujral Punjab Technical U
KAPURTHALA

24/09/21

**IK Gujral Punjab Technical University
Department of Academics**

Minutes of meeting of Board of Studies Pharmacy held on March 5, 2021 at 3:00 PM through online mode (Skype).

The following member were present:

1. Prof. (Dr.) G. D. Gupta, Director-Cum-Principal, ISF College of Pharmacy, Moga (Chairman)
2. Dr. Chander Mohan, RBIP, Hosiarpur (Vice-Chairman)
3. Dr. D. N. Prasad, Principal Shivalik College of Pharmacy, Nangal (Member)
4. Dr. M. Arockia Babu, Principal, Chandigarh College of Pharmacy, Landran, Mohali (Member)
5. Dr. Puneet Utereja, PCTE, Baddowal (Member)
6. Dr. Shamsher Singh, ISF College of Pharmacy, Moga (Member)
7. Dr. Anjoo Kamboj, Chandigarh College of Pharmacy, Landran (Member)
8. Dr. Jagdeep Singh Dua, SCPN, Nangal (Member)
9. Dr. Vandana Kharb, Sachdeva College of Pharmacy, Kharar (Member)
10. Dr. Subheet Jain, Deptt. of Pharmaceutical Sciences, GNDU Amritsar, (Member)
11. Dr. Pawan Krishan, Professor, Deptt of Pharmaceutical Sciences, Punjab University, Patiala (Member)
12. Dr. Shabir Sidhu, Assistant Professor, Main Campus IKGPTU (Member-Coordinator)

The following members could not attend the meeting:

1. Dr. Anupam Sharma, Professor, UIPS, Panjab University, Chandigarh (Member)
2. Dr. Gurpreet Kaur, Akal College of Pharmacy, Mastuana (Member)
3. Dr. Pradeep Saha, Assistant Professor, SCPN, Nangal (Member)
4. Dy. Director / Assistant Director CR&A, Department of CR&A, IKGPTU (Member)

Dr. G.D. Gupta, Chairperson of BOS Pharmacy welcomed the members. The agenda for discussion were taken up and following were resolved.

1. Agenda for Ratification

1.1. Matter pertaining to the award of credits for co-curricular activities in M. Pharmacy

The Board of Studies approved the scheme for the award of credits for co-curricular activities. As per the modified scheme it is was recommended that 02 credit points should be made mandatory so that allthe students are awarded degree with uniform total credits of 95. It was approved that the modified scheme will be applicable from Batch 2017 onward. The modified schemeis as follows:

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Fourth Semester Study Scheme of M. Pharmacy from Batch 2017 onward**Fourth Semester**

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
-	Journal Club	1	-	25	-	25	1
-	Research Work	-	31	-	400	400	16
-	Discussion/Final Presentation	3	-	75	-	75	3
-	Co-curricular Activities	-	-	Satisfactory/Unsatisfactory			2*
Total		4	31	100	400	500	22

*Note: Required credit points 02 for satisfactory; Less than 02 creditpoints unsatisfactory

*Credits not included towards calculation of CGPA

Semester Wise Credits Distribution

Semester	Credit Points
I	26
II	26
III	21
IV	20
Co-curricular Activities (Attending Conference, Scientific Presentations & Other Scholarly Activities)	02*
Total Credit Points	93 + 2* = 95

- *Credit Points for Co-curricular Activities
- *Credits not included towards calculation of CGPA
- *The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University

2. Finalization of scheme and syllabus of M. Pharm Pharmacy Practice

The Board discussed and finalized the study Scheme and Syllabus of M. Pharm Pharmacy Practice for the session 2020 onwards. Copy of finalized syllabus is attached as Annexure-A

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M. Pharm Pharmacy Practice Scheme**First Semester**

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
MPP 101T	Clinical Pharmacy Practice	4	-	25	75	100	4
MPP 102T	Pharmacotherapeutics-I	4	-	25	75	100	4
MPP 103T	Hospital & Community Pharmacy	4	-	25	75	100	4
MPP 104T	Clinical Research	4	-	25	75	100	4
MPP 105P	Pharmacy Practice Practical I	-	12	50	100	150	6
	Seminar/Assignment		7	100		100	4
Total		16	19	250	400	650	26

- # Minimum five seminar/assignment each of 20 marks per semester

Second Semester

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
MPP201T	Principles of Quality Use of Medicines	4	-	25	75	100	4
MPP202T	Pharmacotherapeutics II	4	-	25	75	100	4
MPP203T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	4	-	25	75	100	4
MPP204T	Pharmacoepidemiology & Pharmacoeconomics	4	-	25	75	100	4
MPP205P	Pharmacy Practice Practical II	-	12	50	100	150	6
	Seminar/Assignment		7	100		100	4
Total		16	19	250	400	650	26

- # Minimum five seminar/assignment each of 20 marks per semester

Third Semester

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
MRM301T	Research Methodology & Biostatistics*	4	-	25	75	100	4
	Journal Club	1	-	25	-	25	1
	Discussion / Presentation (Proposal Presentation)	2	-	50	-	50	2
	Research Work*		28		350	350	14
Total		7	28	100	425	525	21

- *Non-University Exam

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Fourth Semester

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
-	Journal Club	1	-	25	-	25	1
-	Research Work	-	31	-	400	400	16
-	Discussion/Final Presentation	3	-	75	-	75	3
-	Co-curricular Activities	-	-	Satisfactory/Unsatisfactory			2
Total		4	31	100	400	500	22

*Note: Required credit points 02 for satisfactory; Less than 02 credit points unsatisfactory

*Credits not included towards calculation of CGPA

3. Inclusion of mandatory course on Research and Publication Ethics in PhD course work

The Board deliberated and finalized subject code, scheme and syllabus of Research and Publication Ethics for inclusion in the PhD course work from batch 2021 onward as compulsory course. The copy of syllabus is attached as Annexure-B

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Study Scheme

Course Code	Course Type	Course Name	Load			Marks			Credits
			L	T	P	Internal	External	Total	
PHP-101	Compulsory Course	Research Methodology	3	1	-	30	70	100	4
PHP-102	Compulsory Course	Research & Publication Ethics	2	-	-	20	30	50	2
PHP-201	Core Theory (Any One)	Pharmaceutics	3	1	-	30	70	100	4
PHP-202		Pharmaceutical Chemistry	3	1	-	30	70	100	
PHP-203		Pharmacology	3	1	-	30	70	100	
PHP-204		Pharmacognosy	3	1	-	30	70	100	
PHP-301	Interdisciplinary Course (Any One)	Modern Pharmaceutical Analytical Techniques	3	1	-	30	70	100	4
PHP-302		Intellectual Property Rights	3	1	-	30	70	100	
PHP-303		Pharmacology & Toxicological Screening Methods	3	1	-	30	70	100	
PHP-304		Biochemical & Separation Techniques	3	1	-	30	70	100	
PHP-305		Bioprocess Technology	3	1	-	30	70	100	
PHP-306		Recombinant Biotechnology	3	1	-	30	70	100	
PHP-307		Plant Tissue Culture	3	1	-	30	70	100	
PHP-401	Presentation	*Presentation	-	-	-	-	-	75	-
Total			11	03	06	185	270	455	17

*Minimum three presentations related to proposed research area of the candidate

*Non-University Exam

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4. Examination pattern of M. Pharm end semester exam

The examination pattern of theory end semester exam of 75 marks was finalized as follows:

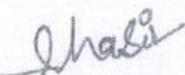
Section A compulsory	10x2=20
Section B (Answer 7 out of 9)	7x5 = 35
Section C (Answer 2 out of 3)	2x10=20
	75 Marks

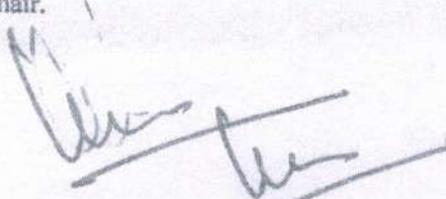
The examination pattern of practical end semester exam of 100 marks was finalized as follows:

Synopsis	20
Minor Experiment	20
Major Experiment	40
Viva-Voce	20
	100 Marks

The modified exam pattern was recommended to be implemented from batch 2021 onward.

The meeting ended with the vote of thanks to the chair.


Dr. Shabir Sidhu (Coordinator)


Prof. (Dr.) G. D. Gupta
(Chairperson BOS)

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KAPURTHALA

9/10/21

