

कर्नाटक केंद्रीय विश्वविदयालय

CENTRAL UNIVERSITY OF KARNATAKA

(Established by an Act of the Parliament in 2009)

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Aland Road, Kadaganchi-585367, Gulbarga Dist., Karnataka.

DEPARTMENT OF LIFE SCIENCE

MINUTES OF THE BOARD OF STUDIES (LIFE SCIENCE) MEETING HELD ON 18.08.2023

The Department of Life Science, Central University of Karnataka, held its Board of Studies meeting on 18.08.2023. The following members were present

Prof. N Sathyanarayana, Prof. & Head, Dept of Life Science, CUK
 Prof R. Subramanyam, Professor & Head, Dept. of Life Sciences, UoH
 Prof. Venkata Ramana Doddi, Prof. & Head, Dept. of Chemistry, CUK
 Dr. Bharat Kumar, Associate Professor & Head, Dept. of Physics, CUK
 Member
 Dr. Krishna Chaitanya, Assoc. Prof., Dept. of Life Science, CUK
 Member
 Member
 Member

Prof. Rajagopal Subramanyam and Dr. Bharath Kumar attended the meeting online.

The following members were present as special invitees:

- 1. Dr Kawishnakar Gawli, Asst. Professor, Dept. of Life Science
- 2. Dr. Rasmita Samal, Asst. Professor, Dept. of Life Science
- 3. Dr. Kavitha Hiremath, Asst. Professor, Dept. of Life Science

In the beginning, Chairman welcomed all the members and briefed the agenda.

The discussions that followed and the decisions arrived at are as follows;

1. CONVERTING THE ONGOING UG PROGRAM IN LIFE SCIENCE TO PLANT AND ANIMAL SCIENCE AND PUTTING ON HOLD FURTHER ADMISSIONS

The ongoing UG program offered by the department (B.Sc Life Science) has an interdisciplinary curriculum. However, students face problems securing PG admissions to traditional disciplines like Botany, Zoology, B.Ed programs, and jobs like UGT, PGT, etc. Therefore, a proposal to offer it in the format to award honors degrees in Plant and Animal Sciences was discussed. The 'to be' new program (applicable to the currently admitted batch) will have common courses during the first two years and separation from 3rd year onwards. However, given its broader scope, Prof. Rajagopal suggested retaining the existing program. Further, he also pointed out the need for more human and infrastructural resources for the new programs and the imminent need to reduce the burden on the faculty members for facilitating their research.



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After detailed deliberations, the House decided.

- a) to seek advice from the university authorities on the farmer.
- b) to recommend putting further admission on hold from the next academic year until the department is sufficiently equipped regarding human and infrastructural resources.

2. CONVERTING THE ONGOING PG PROGRAM IN LIFE SCIENCE TO PLANT AND ANIMAL SCIENCES

The Chairman briefed the House on the difficulty faced by past and present M. Sc Life Science students regarding employment opportunities. After considerable discussion on the pros and cons, the house recommended offering separate PG programs in M.Sc Plant Sciences and M.Sc Animal Sciences as proposed by the department, subject to approval by the relevant statutory bodies/competent authority and following the below stipulations.

- a) The students will be allotted to these specializations, in equal numbers, right at the beginning by reflecting the distribution in the admission prospectus. Students will be asked to choose a particular field in the application form.
- b) There shall be common courses/papers (for both programs) during the first year and specialization papers during the second year. For all the common courses, classes will be held together.
- c) The department's name shall remain the Department of Life Science (only). This is important for maintaining the eligibility for developmental and infrastructural grants from the various ministries of GoI.
- d) All the infrastructure shall remain common to both programs. So are faculty members. The division is only academic facilitation and notional for the time being.
- e) The university should seek additional teaching and non-teaching posts as required by both programs from the UGC on a priority basis.
- f) In the future, the university can separate these programs into independent departments based on the availability of faculty members and infrastructure.

The new programs can come to effect from the current academic year and replace the currently offered M.Sc Life Science.

3. CONSTITUTION OF EQUIVALENCE COMMITTEE

In addition to Agenda-2, under the removal of difficulties for the past and present students of M.Sc Life Science, Chairman presented an extended agenda on the need for issuing equivalence certificates to the past and present students of M.Sc Life Science of CUK "as equivalent to M.Sc Botany or M.Sc. Zoology." After detailed discussion, the House recommended constituting an equivalence committee by the university to establish the parity



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of the curricular contents. It was further decided to include the new syllabus (presented in this meeting) under its purview of the committee and, if found equivalent, include a statement of equivalence in the marks sheet and degree certificates of M.Sc Plant Science and M.Sc Animal Science of the future students.

4. SYLLABUS MATTERS

The House approved the following syllabi, prepared under the NEP guidelines by the department for implementation from the academic year 2023-24. The inclusion of gender studies, research ethics, etc., as required by the UGC-NEP mandate suggested by the members, was agreed upon.

- a) B.Sc Honors in Plant Sciences
- b) B.Sc Honors in Animal Sciences
- c) B.Sc in Plant Sciences with research
- d) B.Sc in Animal Sciences with research
- e) M.Sc in Plant Sciences
- f) M.Sc in Animal Sciences
- g) Ph.D. coursework in Plant Sciences
- h) Ph.D. coursework in Animal Sciences

5. ANY OTHER ITEMS WITH THE APPROVAL OF THE CHAIR

None

Approved vio. emoil Prof R Subramanyam **External Member**

Prof. Venkataramana Doddi

Member

Dr. Bharath Kumar

Member

R. W. Wan ton Dr. Krishna Chaitanya,

Member

Dr. Rakesh Kumar, Member

Dr. Kawishankar Gawli

Member

Dr. Rasmita Samal Member

Dr. Kavita Hiremath

Member

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Dept. of Life Science School of Life Sciences Kadganchi, Aland Road Kalaburagi-585367

Minutes of meeting held on 14.11.2022, for discussing M.Sc. Life Sciences (Specialization: Plant Science) as equivalent to MSc Botany -reg.]

Mode: Offline

Members present:

Prof. K. Hanumae Gowd, Dean School of Life Sciences

Dr. Rakesh Kumar, Coordinator

Prof. Rajagopal Subramanyam (Subject Expert)

Dr. Kavishankar Gawli, Asst. Prof.

Dr. Rasmita Samal, Asst. Prof.

Meeting Details: Date: 14-11-2022; Venue, Department of Life Sciences seminar hall at 01:15 pm, CUK. Agenda: considering M.Sc. Life Sciences (Specialization: Plant Science) as equivalent to MSc Botany

Dr. Rakesh Kumar invited all the members to discuss that M.Sc. Life Sciences (Specialization: Plant Science) as equivalent to Botany. The committee after careful consideration has decided to accept the following recommendation of the Equivalence:

* M.Sc. Life Sciences (Specialization: Plant Science) awarded by Central University of Karnataka is equivalent to M.Sc. Botany.

The meeting ended with a note of thanks from the coordinator Dr. Rakesh Kumar; the above notes were made, and based on the opinions of the members.

Committee member's signature

Prof. K. Hanumae Gowd, Dean School of Life Sciences

Dr. Rakesh Kumar, Coordinator folder

Prof. Rajagopal Subramanyam (Subject Expert)

Dr. Kavishankar Gawli, Asst. Prof.

Dr. Rasmita Samal, Asst. Prof.

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School of Life Science Kadaganchi, Aland Road Kalaburagi - 585 367

MINUTES OF THE BOARD OF STUDIES MEETING

(Online mode: Google Meet (http://meet.google.com/bos-xxxxx.)

Department : Life Science

Venue: Seminar Hall at 3:30 p.m. (IST) Date: 28 July 2022

Members present:

- a) Prof. K. Hanumae Gowd (Chairperson)
- b) Dr. Rakesh Kumar (Convener)
- c) Prof. Rajagopal Subramanyam (Subject Expert)
- d) Prof. Poonam Sharma (Subject Expert)
- e) Dr. Bharat Kumar (Subject Expert)
- f) Dr. Kavishankar Gawli (Internal Member)
- g) Dr. Rasmita Samal (Invited Member)

Leave of absence

- 1) Prof. A. Ravindra Nath, University Nominee
- 2) Dr. Venkata Ramana Doddi, University Nominee

The above members expressed their inability to attend the meeting as they were preoccupied and the same was recorded.

Welcome address and introductory remarks by the Convener

Dr. Rakesh Kumar, Convener, welcomed all the members of the BoS and briefed on the academic activities of the department. In introductory remarks he presented the agenda items to be discussed in the meeting along with the draft copies of the syllabi of B. Sc. and M. Sc. programme. This was followed by a general discussion on the development/restructuring of the MSc syllabus and proposal of NEP based BSc syllabus as per UGC guidelines. The meeting adopts the following resolutions and incorporating the following aspects from the academic year 2022 onwards.

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Agenda-1: Syllabus for NEP-based four-year UG programme leading to B. Sc. in Research/Hons with Life Science as Major

- I). Title of the Degree "B. Sc. in Research/Hons with Life Science as Major":
 - A). The members expressed their concerns pertaining to the degree to be awarded at the end of fourth year and recommended that this be changed to "B. Sc. in Life Science by Research", as the curriculum focuses more on Life Science along with research. This matter will be placed before the administration and, if necessary, in the academic council for discussions.
 - II). BOS suggestion to includes some important subjects
 - B). Prof. Rajagopal Subramanyam, the Vice- Chancellor's nominee suggested to include Indian Heritage and Culture, and Gender Sensitivity/Equality related courses in semester I and be offered in semester 2 as well. The matter has been taken forward and discussed, now the students will be advised/encouraged to choose similar topics (elective) offered by departments.
 - C). Prof. Poonam Sharma strongly recommended Computer Science as one of the requisite subject required to meet employment needs. In addition to that, she also suggested adding arts, sports, and music related to courses. The matter has been taken forward and discussed, and students will be advised / encouraged to choose these subjects as minor offered by departments.
 - III). Suggestion on SEC and choice of Life Science in third year
 - D). It was also informed by the subject experts that SEC- 3 choice should decide whether a student will enter life sciences in the third year.
 - IV). Suggest to constitute a committee:
 - E). Prof. Rajagopal Subramanyam pointed out that a committee shall be constituted to frame rules and regulations for exit plans at different levels by adopting other universities guidelines and must also taking into the account of student's employability

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Agenda- 2: Syllabus for two-year PG programme leading to M. Sc. Life Science

- 1). Title of the Degree "M. Sc. Life Science"
 - A). The members expressed their concerns pertaining to the degree to be awarded at the end of second year and recommended that it be changed to "M. Sc. Life Science", as the curriculum emphasis more on life science rather than a specialization in plant and animal science, which would prevent students from being eligible for the DST Inspire JRF Programme. This matter will be placed before the administration and, if necessary, in the academic council for discussions.
- 11). Suggestions for reorganization on course title:
 - B). Prof. Rajagopal Subramanyam, the Vice- Chancellor's nominee suggested to remove Molecular Biology from semester II and instead add Biochemistry II
 - C). In semester III, Prof. Poonam Sharma opined to remove Genetic Engineering and instead introduce Molecular Biology and Biotechnology by merging the contents of Genetic Engineering and Molecular biology. The same has been implemented.
 - D). Prof. Rajagopal Subramanyam instructed Bioinformatics as an essential subject. Therefore, it should be kept as Discipline Specific Elective (DSE) instead of General elective (GE). The same has been implemented.
 - E). Prof. Rajagopal Subramanyam suggested to replace the Tools and Technique subject with ecology and Evolutionary Biology. The same has been implemented.

II). Addition of subjects:

- F). It was suggested by Prof. Rajagopal Subramanyam to add important subjects such as Scientific innovation and IPR, and Nanobiotechnology in the second semester through NPTEL/SWAYAM/MOOCS as there is a huge scope for students in future studies. The same has been implemented by offering these subjects (DSE) through MOOCS.
- G). Prof. Rajagopal Subramanyam and Prof. Poonam Sharma jointly proposed to include Ecology and Evolutionary Biology in first semester as these two topics are significantly important in competitive exams. The same has been implemented.

The suggestions/comments made by subject experts were accepted by all the BoS members and the revised syllabus will be circulated along with the minutes of the meeting, for final approval from the members. The meeting was concluded by Dr. Kavishankar GB, BoS internal member by proposing vote of thanks to subject experts and University nominees for giving valuable suggestions.

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And further he assured that the suggestions of the members will be paid due attention and carried out at the earliest. The meeting was adjourned at 5.30 p.m.

All the following members approved the minutes and the revised syllabus with the suggestions incorporated (few by email).

Prof. K. Hanumae Gowd

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Dr. Rakesh Kumar

Prof. Rajagopal Subramanyam (mail attached - vial mail)

Prof. Poonam Sharma

Dr. Bharat Kumar

Dr. Kavishankar Gawli

Dr. Rasmita Samal

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Dept. of Life Science School of Life Sciences Kadaganchi, Aland Pood

Kalaburagi-585367

MINUTES OF THE BOARD OF STUDIES MEETING

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(Circulation mode)
Department: Life Science
Venue: Seminar Hall at 3:30 p.m.
Date: 07 July 2022

Members

- a) Prof. K. Hanumae Gowd (Chairperson)
- b) Dr. Rakesh Kumar (Convener)
- c) Prof. Rajagopal Subramanyam (Subject Expen)
- d) Prof. Poonam Sharma (Subject Expert)
- e) Prof. A. Ravindra Nath. University Nominee
- f) Dr. Venkata Ramana Doddi, University Nominee
- g) Dr. Bharat Kumar (Subject Expen)
- h) Dr. Kavishankar Gawli (Internal Member)
- i) Dr. Rasmita Samal (Invited Member)

On 7th July 2022, Ph.D. coursework syllabus was circulated via mail to all members to seek their opinion and comments.

Agenda: Ph.D. coursework approval for Life Sciences

1. Title of the Degree "Ph.D. in Life Science"

The members expressed their concerns about the degree to be awarded for *Ph.D.* in *Life Science* and had a discussion on different courses to be offered.

- 2. Subjects offered
 - A. Section -1: Research Methodology (Credits: 04)

The members discussed the course content of the modules listed in Section-I and agreed to approve the same.

B. Section -II: Biosafety, Biostatistics & Data Analysis (Credits: 04)

The members discussed the course content of the modules listed in Section II and agreed to approve the same.

C. Section -III: Research & Scientific Communication (Credits: 02)

The members discussed the course content of the different modules listed in the Section III and agreed to approve the same.

D. Section -IV: Scientific & Publication Ethics (Credits: 02)

The members discussed the course content of the modules listed in Section IV and agreed to approve the same.

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In brief, the coursework consists mainly of four sections that focus on fundamental principles of research methodology. This section contains a variety of choice-based modules such as molecular biology-based techniques, microscopy, and immunological techniques, protein purification, plant and animal cell culture techniques, and recent advances in genomics and proteomics, among other things. Apart from this, the different sections of the syllabus contain Biosafety, Biostatistics, and Data analyses which were covered well. Similarly, research and scientific communication, publishing ethics, and research integrity are enclosed and found appropriate.

All the BoS members unanimously accepted the proposed PhD course work as such (without any correction). All the members agreed and approved the coursework in circulation mode. The external members endorsed through mail.

Members

- a) Prof. K. Hanumae Gowd (Chairperson)
- b) Dr. Rakesh Kumar (Convener) Rath Cum
- c) Prof. Rajagopal Subramanyam (Subject Expert) (mail attached)
- d) Prof. Poonam Sharma (Subject Expert) (mail attached)
- e) Prof. A. Ravindra Nath, University Nominee
- f) Dr. Venkata Ramana Doddi, University Nominee

g) Dr. Bharat Kumar (Subject Expert)

h) Dr. Kavishankar Gawli (Internal Member)

i) Dr. Rasmita Samal (Invited Member)



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Department of Life Science School of Life sciences

Kadaganchi, Aland Road, Kalaburagi District–585367

23-08-2019

Minutes of the Board of Studies (BOS) meeting of M.Sc Life Science held on 23-08-2019 at Pro-Vice chancellor chamber, Central University of Karnataka (CUK), Kalaburagi

The Following members attended the meeting

- 1. Prof. G.R. Naik, Dean, School of Life Science, CUK, Kalaburagi.
- 2. Prof. S. Dayananda, University of Hyderabad, Hyderabad.
- 3. Prof. D. Manjula Kumari, Bangalore University, Bangalore.
- 4. Prof. Chandrakant Kelmani, Gulbarga University, Kalaburagi.
- 5. Dr. K. Hanumae Gowd, CUK, Kalaburagi.

Co-opted members for this meeting

- 1. Prof.T B Karegoudar, Gulbarga University, Kalaburagi.
- 2. Prof. Vidyasagar G.M., Gulbarga University, Kalaburagi.
- 3. Dr. P Duraippandi, Coordinator of Life Science, CUK, Kalaburagi.

Following agendas were discussed in the meeting:

Agenda-I: Approval of syllabus of M.Sc Life Sciences.

Agenda-II: Nomenclature of the course

Agenda-III: Specialization offering in the course

Agenda-IV: Open elective offering in the course

Agenda-V: School of Life Sciences, University of Hyderabad as mentoring institute of CUK M.Sc Life

Science programme

Following conclusions were derived in the meeting:

- 1. Enclosed course curriculum has been designed for M.Sc Life Science course (Enclosure).
- 2. The committee has decided to offer the course with specialization as-

M.Sc Life Science (Plant Science) and M.Sc Life Science (Animal Science)

- 3. The Semester-I and Semester-II are common for both the specializations.
- 4. The decision of specialization will be made based on the specific courses taken in the Semester-III and Semester-IV related to either plant science or animal science, and the faculties to be recruited.

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5. The following course are being offered at Department of Life Science

Soft Core-1: Enzymology

Open elective: Biofuels

- The students of M.Sc Life science are recommended to take 70% of subject centric courses and 30% of subject centric axillaries.
- 7. The BOS committee has resolved to recommend the School of Life Sciences, University of Hyderabad as mentoring institute of CUK M.Sc Life Science programme
- 8. Dean, School of Life Sciences has concluded the meeting by thanking the BOS members.

Prof. G.R. Naik,

Central University of Karnataka

Prof. T B Karegoudar,

Gulbarga University

Prof. Chandrakant Kelmani,

Gulbarga University,

Dr. K. Hanumae Gowd

Central University of Karnataka

Prof. Dayananda

University of Hyderabad

Prof. D. Manjula Kumari,

Bangalore University

rof. Vidyasagar G.M.,

Gulbarga University,

Dr. P. Durainpandi

Central University of Karnataka

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Minutes of the Board of Studies (BOS) meeting of M.Sc Life Science held on 23-08-2019 at Pro-Vice chancellor chamber, Central University of Karnataka (CUK), Kalaburagi

The Following members attended the meeting

- 1. Prof. G.R. Naik, Dean, School of Life Science, CUK, Kalaburagi.
- 2. Prof. S. Dayananda, University of Hyderabad, Hyderabad.
- 3. Prof. D. Manjula Kumari, Bangalore University, Bangalore.
- 4. Prof. Chandrakant Kelmani, Gulbarga University, Kalaburagi.
- 5. Dr. K. Hanumae Gowd, CUK, Kalaburagi.

Co-opted members for this meeting

- 1. Prof.T B Karegoudar, Gulbarga University, Kalaburagi.
- 2. Prof. Vidyasagar G.M., Gulbarga University, Kalaburagi.
- 3. Dr. P Duraippandi, Coordinator of Life Science, CUK, Kalaburagi.

Following agendas were discussed in the meeting:

Agenda-I: Approval of syllabus of M.Sc Life Sciences.

Agenda-II: Nomenclature of the course

Agenda-III: Specialization offering in the course

Agenda-IV: Open elective offering in the course

Agenda-V: School of Life Sciences, University of Hyderabad as mentoring institute

of CUK M.Sc Life Science programme

Following conclusions were derived in the meeting:

- Enclosed course curriculum has been designed for M.Sc Life Science course (Enclosure).
- 2. The committee has decided to offer the course with specialization as-M.Sc Life Science (Plant Science) and M.Sc Life Science (Animal Science)
- 3. The Semester-I and Semester-II are common for both the specializations.
- 4. The decision of specialization will be made based on the specific courses taken in the Semester-III and Semester-IV related to either plant science or animal science, and the faculties to be recruited.
- The following course are being offered at Department of Life Science Soft Core-1: Enzymology

Open elective: Biofuels

6. The students of M.Sc Life science are recommended to take 70% of subject centric courses and 30% of subject centric axillaries.

7. The BOS committee has resolved to recommend the School of Life Sciences, University of Hyderabad as mentoring institute of CUK M.Sc Life Science programme

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The Central University of Karnataka has scheduled BOS meeting for M.Sc Life Sciences on 23-08-2019 at 11:00 AM. The agenda of the meeting are as follows-

Agenda-I: Approval of syllabus of M.Sc Life Sciences.

Agenda-II: Nomenclature of the course

Agenda-III: Specialization offering in the course Agenda-IV: Open elective offering in the course

Agenda-V: Any other matter with permission of the chair.

The draft syllabus copy of M.Sc Life Science course may be circulated for the BOS members and informed to attend the meeting as per the schedule.

School of Life Sciences

(1) Prof T.B. Karegouder (2) Prof G.M. vilaysager.



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 Dean, School of Life Sciences has concluded the meeting by thanking the BOS members.

Prof. G.R. Naik.

Central University of Karnataka

Prof. T)B Karegoudar, Gulbarga University

Prof. Chandrakant Kelmani, Gulbarga University,

Dr. K. Hanumae Gowd

Central University of Karnataka

Prof. S. Dayananda University of Hyderanad

Prof. D. Manjula Kumari, Bangalore University

Prof. Vidyasagar G.M., Gulbarga University,

Pr. Duraippandi, Pand

Central University of Karnataka