



**ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH  
(AcSIR)**

**Proceedings of the 23<sup>rd</sup> Meeting of the Senate**

The 23<sup>rd</sup> meeting of Senate of Academy of Scientific and Innovative Research (AcSIR) was held on May 10, 2019 at, 10:00 hrs. at CSIR-Science Centre, Lodhi Road, New Delhi. The meeting was attended by the following members of the Senate:

Sl. No.	Name of Participants	Mode of Participation
1	Prof. Rajender S. Sangwan, Director AcSIR, Chairman	In Person
2	Prof. Ajay Dhar, Associate Director, AcSIR, Member	In Person
3	Prof. Deepak Pental, Delhi University, Member	In Person
4	Prof. Sanjay Mittal, IIT, Kanpur, Member	In Person
5	Prof. Ashwini Nangia, CSIR-NCL, Member	In Person
6	Prof. Sanjay Kumar, CSIR-IHBT, Member	In Person
7	Prof. Anjan Ray, CSIR-IIP, member	VC
8	Prof. G. Narahari Sastry, CSIR-IICT, Member	VC
9	Prof. V. Subramanian, CSIR-CLRI, Member	In Person
10	Prof. Suman Kumari Mishra, CSIR-NML, Member	In Person
11	Prof. Shantanu Sengupta, CSIR-IGIB, Member	In Person
12	Prof. Danda Srinivas Rao, CSIR-IMMT, Member	VC
13	Dr. Bhanu Pratap Singh, CSIR-NPL, Member	In Person
14	Dr. Suwendra Nath Bhattacharyya, CSIR-IICB, Member	In Person
15	Dr. L. Venkatakrishnan, CSIR-NAL, Member	VC
16	Ms. R.V. Lakshmi, CSIR-NAL, Member	In Person
17	Dr. Chetan Gadgil, CSIR-NCL, Member	In Person
18	Dr. Ramanuj Narayan, CSIR-IICT, Member	In Person
19	Prof. GK Patra, CSIR-4PI, Member	In Person

\* The members participating through video conferencing could participate in discussion and deliberations of the meeting with clarity.

Prof. K. Ravikumar, Prof. Amitabha Chattopadhyay, Prof. Harini Nagendra and Dr. D. Srinivasa Reddy could not attend the meeting due to prior engagements.

The quorum of the meeting was fulfilled.

The meeting was also attended by Ms. Arpita Sengupta, Senior Manager, AcSIR, as non-member Secretary of the Senate.

**DG CSIR'S ADDRESS TO THE AcSIR SENATE**

On the occasion of the 23<sup>rd</sup> meeting of the AcSIR Senate, the DG, CSIR & Secretary, DSIR and Vice Chairman, BoG, AcSIR, Prof. Shekhar C Mande addressed the members of the Senate. On behalf of the Senate, the Chairman felicitated the DG, CSIR and thanked him for the multifarious support extended by CSIR to AcSIR in conducting the AcSIR academic programs.

In his address, Prof. Mande stressed that the AcSIR should make efforts to value add in the academic programs being offered at the different Labs by introduction of new courses, not being taught in regular universities/institutes, in collaboration with reputed International organizations, e.g., a high-quality Science Communication/Science Journalism course etc. He further stressed that AcSIR also needs to publicize its achievements. He further emphasized that Finishing School programs should be introduced by the CSIR Labs under the AcSIR umbrella. He further stressed that AcSIR should strive to achieve effective Industry-CSIR Lab collaborative programs under its ambit, where the students would get a chance to spend substantial time working at partnering industries thereby giving them exposure to the industry environment. He congratulated the AcSIR for its impressive achievements within the few years of its establishment.

The house thanked DG, CSIR for his valuable message.

### **INITIATION OF THE MEETING**

#### **Item No. 1: Welcome address and update of major activities by the Chairman of the Senate:**

Prof. Rajender S. Sangwan, the Chairman, Senate extended warm welcome to all the members of the Senate, who were participating either in person or through video conference. He initiated the meeting by informing the Senate about induction of Prof. Anjan Ray, Director, CSIR-IIP and Prof. Danda Srinivas Rao, Dean, Physical Sciences as new members of the Senate.

The Chairman made a brief presentation on "AcSIR Highlights: Progress, Plans, Prospects & Issues", whereby the Senate was updated about its significant achievements in the recent past including the current student strength of 4192 out of which 4106 were enrolled in PhD programs. Besides, the far improved processes of AcSIR programs, the presentation also reflected the immensely enhanced attraction of students towards the PhD programs during the last few admission sessions. Accordingly, it was informed that as against the total PhD admissions of 620 and 726 during the previous year's 2016-17 and 2017-18 (August and January Sessions combined) respectively, admissions during 2018-19 (August and January sessions combined) recorded a substantial jump to 1011.

The Chairman further informed the Senate that during the academic year 2018, four CSIR Labs have decided to participate in AcSIR program by enrolling 100% of their PhD students to AcSIR: (a) CSIR-IMTECH, (b) CSIR-CCMB, (c) CSIR-NGRI and (d) CSIR-CDRI.

The Chairman also updated the Senate members on the recently introduced procedures by which (a) Provisional Degrees were being issued within 5 days of approval of the Viva proceedings by the Chairman, Senate; (b) introduction of priority issuance of final Degree Certificates on payment of a nominal fee; (c) Issuance of No Dues Certificates soon after Thesis submission, ordinarily within 7 working days of receipt of the request; (d) online submission of the Semester Academic Continuation Commitment (SACC) Form successfully implemented through a portal AcSIR; (e) PhD degree format revised to reflect Faculty of study; (f) Subject Certificate for PhD Degree implemented.

The members applauded the efforts of AcSIR for these achievements that represent major improvements in term of quality and efficiency.

**Item No. 2: Confirmation of the minutes of the 22<sup>nd</sup> meeting of the Senate:** The proceedings of the 22<sup>nd</sup> meeting of the Senate, held on 30<sup>th</sup> November, 2018 were communicated to the members for

*R. Sangwan*

which no comments were received. The Chairman, further invited comments from the members, if any, then and there. As no comments were made by any member, the Senate confirmed the proceedings of the 22<sup>nd</sup> meeting of the Senate.

**Item No. 3: Action Taken Report (ATR) on the 22<sup>nd</sup> Meeting of the Senate:** The Senate members were updated about the actions taken with respect to the decisions and suggestions on each of the Agenda items of the 22<sup>nd</sup> meeting of the Senate. Members were also updated about the extent of completion /progress of tasks in this regard. Detailed discussions were held on those items where difficulties in implementation were encountered. Only those items where action(s) were still in process are stated below with current status:

- Item #20(11): Inclusion of “Mathematical & Information Sciences” under “Faculty of Engineering” in addition to its current position under “Faculty of Science”.** The detailed modalities are being worked out.
- Item #29: Decision of Status of students whose functional continuity in AcSIR program has ceased or not known:** Activity of working out the modalities for cancellation of registration of such students from the student data-base of AcSIR is in process.
- Item #39:** Proposals received from foreign Universities for collaborative PhD program: University of Western Australia and Deakin University. The members further proposed that AcSIR should also explore possibility as well as their pros and cons of entering into Agreements with National Institutes and Organizations e.g., ICMR Institutes, AIIMS, ICAR Institutes for collaborative PhD programs.
- Item No. 27: Proposal to keep the AcSIR Admission Portal open throughout the year:** Discussion with the vendor managing the portal is ongoing related to modalities for keeping the portal open throughout the year.

#### ITEMS FOR INFORMATION

**Item No. 4: Inter-Lab Transfer of AcSIR students:** The case of Inter-Lab transfer of Mr. **Saurabh Sakhre** (20EE16A27002), a Project Assistant of CSIR-NEERI to CSIR-NIIST, as a Scientist, was placed before the Senate. The Senate opined that since the PhD program for CSIR Scientists have certain stipulations, this particular case of transfer should not be considered. The student can apply for a fresh PhD from CSIR-NIIST under the category of CSIR Scientist and proceed as per rules of AcSIR. The Coordinator of the concerned Labs would be appropriately informed.

**Item No. 5: Change of faculty/discipline of study of AcSIR students:** The Senate noted the request for change of faculty for one student of CSIR-NCL as detailed below:

CSIR-Lab	Name of the Student	Faculty	Enrollment No.	Changed Faculty	Revised Enrollment No.
CSIR-NCL	Amit Kumawat	Biological Sciences	10BB14A26038	Chemical Sciences	10BC14A26038

**Item No. 6: Change of students’ PhD program from Regular to Part-Time:** The Senate noted the cases, as detailed below, for conversion of PhD program from Regular to Part Time as per AcSIR rules:

Student	Registration No.	Lab	Faculty	Date of Open Colloquium	Date of Approval by Chairman, Senate
Gaurav Singhal	20EE15A15003	CSIR-CSIO	Engineering Sciences	20.11.2018	02.05.2019
Renu Kumari	10BB13J02027	CSIR-IGIB	Biological Sciences	10.08.2018	02.05.2019
Manoj Ramesh Teltumbade	10BB13J02009	CSIR-IGIB	Biological Sciences	21.01.2019	02.05.2019

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**Item No. 7: Students availing Academic Break:** The Senate noted the cases of 20 students who had been granted One Time Academic Break following AcSIR rules, as detailed below:

Student	Registration No.	Lab	Faculty	Academic Leave From	Leave approved upto
Varun Kumar	10BB15A08001	CSIR-CFTRI	Biological Sciences	Extn. of Break from 01.05.2019	31.08.2019
Vishal Sharma	10BB13J37013	CSIR-IIIM	Biological Sciences	13.04.2017	31.01.2019
Shiekh Gulfam	10BB16J37003	CSIR-IIIM	Biological Sciences	13.11.2017	12.11.2019
Sadhana Sharma	10BB13J37011	CSIR-IIIM	Biological Sciences	01.01.2017	30.09.2018
Gourav Gupta	10BB13J37012	CSIR-IIIM	Biological Sciences	22.04.2017	21.04.2019
Anjana Sharma	10BB14A37012	CSIR-IIIM	Biological Sciences	12.03.2018	24.10.2018
Faheem Rassol	10CC14J37010	CSIR-IIIM	Chemical Sciences	April 2017	31.01.2019
Sushil Kumar	10BB15J37014	CSIR-IIIM	Biological Sciences	04.07.2017	03.07.2019
Nisha Sharma	10BB13A37003	CSIR-IIIM	Biological Sciences	15.02.2017	14.02.2019
Amarinder Singh	10BB15J37007	CSIR-IIIM	Biological Sciences	01.04.2017	28.03.2019
Sanjay Kumar	10CC15A37005	CSIR-IIIM	Chemical Sciences	01.04.2017	09.04.2019
Surya Prakash Tiwari	20EE16A32034	CSIR-NPL	Engineering Science	18.09.2017	17.09.2019
Mohit Dixit	10PP18J32003	CSIR-NPL	Physical Sciences	25.03.2019	24.03.2021
Mukesh Kumar	10CC17J32012	CSIR-NPL	Chemical Sciences	01.03.2019	28.02.2028
Ms. Sonu	10PP18A32018	CSIR-NPL	Physical Sciences	01.01.2019	31.12.2020
Indrapal Karbhal	10CC13J26019	CSIR-NCL	Chemical Sciences	27.02.2017	26.02.2019
S Santhosh	10PP13J05004	CSIR-CECRI	Physical Sciences	13.05.2017	12.05.2019
Govind Prabhakarrao Joshi	10PPJ1329001	CSIR-NIO	Physical Sciences	04.05.2018	03.31.2019
Abinash Chand Bharati	10CC13A10003	CSIR-CIMAP	Chemical Sciences	17.10.2018	16.10.2020
Priyanka Dhaka	10BB17J33001	CSIR-IHBT	Biological Sciences	16.11.2018	31.05.2019

Further, the Senate took note of the amendment in the Academic Break period for the following student, which was incorrectly recorded at the Minutes of the 22<sup>nd</sup> meeting of the Senate, as detailed below:

Student	Registration No.	Lab	Faculty	Leave From	Period of approval
Jovitha Lincy V. J	10PP13A29003	CSIR-NIO	Physical Sciences	10.07.2018	10.01.2020

**Item No. 8: Students availing leave for research work at foreign Lab:** The Senate noted the cases of the following students who have been granted leave to carry out research work at foreign Labs, as detailed below:

Enrollment No.	Student's Name	CSIR Lab	Fellowship	Period of Academic Leave
10BB16A02003	Anasuya Bhargav	CSIR-IGIB	Newton Bhabha PhD Placement Fellowship at EMBL-EBI, UK	01.06.2019 to 05.10.2019
10BB16A02011	Manoj Kumar	CSIR-IGIB	Newton Bhabha PhD Placement Fellowship at The Francis Crick Institute, UK	03.06.2019 to 02.10.2019

*A. D. Ghosh*

**Item No. 9: Format for AcSIR PhD Thesis Cover, Title Page, Certificate Page and other requirements:**

The Senate took note that in order to bring uniformity in the format of the PhD theses submitted by the AcSIR students, the guidelines have been issued by AcSIR with respect to the following:

- a) Thesis Cover/Title page
- b) Certificate of submission signed by the Student and the Supervisor(s) – *(Revision)*
- c) Statements of academic integrity - *(New Inclusion)*
- d) Publication details to be mandatorily included at the end of the PhD thesis - *(New Inclusion)*
- e) One-page Abstract for Indexing/Archiving- *(New Inclusion)*

It was informed by the Chairman, Senate that the inclusion of items (b) to (e) above are being made mandatory to ensure compliance to provisions under Minimum Standards Regulations (2009/2016) of UGC for award of PhD degree has a traceability through documented submissions. Such inclusions would be mandatory for all PhD thesis submissions from August 08, 2019 onwards.

The Senate further stressed that Plagiarism Check Report must be generated on appropriate software, preferably through “iThenticate” software, which is tested and most widely used. It was also noted that majority of the CSIR Labs already have the software. The Labs, which are yet to procure the software, may be requested to procure the same or they may approach sister/neighboring CSIR Labs having this software for generating Plagiarism Check Report.

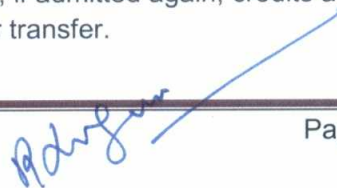
The Senate discussed in details regarding the mandatory inclusion of Publication in “SCI” journals, to which few of the members pointed that new journals require at least 3 years’ time to get indexed as SCI journal. It was decided by the Senate that such exceptional cases, where publication is in new Journals (off-shoots/associate of an established SCI journal of repute), would be reviewed by the Academic Committee on a case to case basis, for interim inclusion in the list of prospective SCI journals. This inclusion would also require approval of the Director, AcSIR.

**Item No. 10: Format for final Grade card issued for all academic programs of AcSIR:** The Senate took note of the revised formats of final Grade Cards for the following programs which had been approved by the Chairman, Senate for adoption:

- (a) PhD; (b) MTech; (c) MSc; and (d) PG Diploma

**Item No. 11: Tenure of PhD for students of Integrated MTech-PhD (IMP) program:** The Senate took note that in order to bring discipline among the students enrolled in Integrated MTech-PhD program with respect to timeline of their PhD thesis submission, the Director, AcSIR as Chairman, Senate AcSIR has approved that PhD part of IMP program would also have minimum and maximum duration as 3 years and 6 years respectively, for submission of thesis.

It had further been approved by the Director, AcSIR that the IMP students program who were enrolled into PhD part of IMP program (after their MTech) in January 2012 and upto August 2013 and have already exceeded or are about to exceed the stipulated 6 years maximum period for PhD thesis submission, must submit their PhD thesis latest by December 31, 2019, failing which their PhD registration in AcSIR would automatically stand cancelled. However, such students would be free to seek fresh PhD admission in AcSIR on a competitive basis and, if admitted again, credits and grades of course-work successfully completed would be considered for transfer.



**Item No. 12: Policy related to Reservation for the Economically Backward Section (EWS):** The Senate took note of the decision that AcSIR would comply with the order of the Govt. of India regarding reservation of seats for applicants belonging to EWS category and reserve 10% of the seats for candidates belonging to the EWS category as per provisions notified by the Govt. of India.

**Item No. 13: SBI Collect Gateway system as a single window for all online payments of dues by students:** The Senate took note of the updates on the SBI Collect portal for tuition fee collection which has been extended to include all types of fees payable by the students, viz., current dues, past dues, thesis submission fee, transcript fee, certificate on priority fee and fee for issuance of duplicate certificates. The Senate highly appreciated the efforts put forward by AcSIR for speedy and successful implementation of fee collection through the SBI Collect Portal.

**Item No. 14: Updated information on strength and status of faculty members of AcSIR:** The Senate noted the updates in the faculty list of AcSIR received from 29 CSIR Labs due to recruitments, promotion, superannuation, resignation etc. of CSIR Scientists since the 22<sup>nd</sup> Senate Meeting. It was also noted that with approval of the Chairman, Senate, the information had been updated on the AcSIR website.

The Senate was further informed by the Chairman that currently (as on 10<sup>th</sup> May, 2019), there were a total of 2336 CSIR scientists, who had been recognized as AcSIR Faculty, as detailed below:

- (a) Assistant Professor – 1297; (b) Associate Professor – 513; (c) Professor – 477; (d) Outstanding Professor – 24; Emeritus Professor – 25

The Senate took note of the above information.

#### **ITEMS FOR RATIFICATION**

**Item No. 15: Students selected and admitted for PhD programs of AcSIR for January 2019 session:** The Senate ratified the selection of **534** students for PhD program (**473** students in Science and **61** students in Engineering) at 32 CSIR Labs in the January semester of 2019.

The Senate was informed that out of the 534 students selected, 395 students have joined the PhD program under the five Faculties of study. The data on Faculty-wise selection and joining is tabulated below:

Sl. No.	Faculty	No. of candidates selected	No. of students joined
1.	Biological Sciences	272	193
2.	Chemical Sciences	137	114
3.	Physical Sciences	53	29
4.	Engineering Sciences	61	51
5.	Mathematical & Information Sciences	11	8
<b>TOTAL</b>		<b>534</b>	<b>395</b>

**Item No. 16: AcSIR-Dr. APJ Abdul Kalam Summer Training Program - 2019:** The Senate ratified the selection of 20 students from among 790 applicants who had applied for the AcSIR-Dr. APJ Abdul Kalam Summer Training Program for 2019. These students had been placed in 12 participating CSIR Labs for Summer Training this year.

**Item No. 17: Results and award of PhD Degrees in Science and Engineering:** The Senate ratified the result of **223** students (since the 22<sup>nd</sup> meeting held on 30 November, 2018) who had completed all the academic requirements for the award of PhD degree, including the successful completion of the viva voce examination.

The Senate was informed that since inception, **1665 PhD Degrees had been awarded** by AcSIR (till 08 May 2019) and that Final Degree Certificates have been prepared till 30 April, 2019 and are ready to be issued on receipt of request and postal address of delivery from the students.

**Item No. 18: Course Related Items: New and Modifications:** The Senate ratified the new courses and modifications of existing courses (course nomenclature and their contents) under different Faculties, that had been approved by the Chairman, Senate on recommendation of the concerned Deans or Associate Deans. The list of courses ratified by the Senate is reproduced below. The details of their contents would be separately available on the AcSIR website.

Faculty	Lab Name	New Courses (Course No.)	Modification of Courses (Course No.)
Biological	CSIR-CCMB	BIO-CCMB-3-1214	
Chemical	CSIR-NIIST #  <i>#Courses approved at 21<sup>st</sup> Senate w/o nomenclature. Nomenclature are placed</i>		CHE-NIIST-2-4120 CHE-NIIST-2-4121 CHE-NIIST-2-4122 CHE-NIIST-2-4123 CHE-NIIST-2-4124 CHE-NIIST-3-4133 CHE-NIIST-3-4134 CHE-NIIST-3-4135
Chemical	CSIR-NPL	CHE-NPL-2-4622 CHE-NPL-3-4621 CHE-NPL-3-4623	
Chemical	CSIR-CFTRI	CHE-CFTRI-1-0001 CHE-CFTRI-1-0002 CHE-CFTRI-1-0003 CHE-CFTRI-1-0004 CHE-CFTRI-2-1601 CHE-CFTRI-2-1602 CHE-CFTRI-2-1603 CHE-CFTRI-2-1604 CHE-CFTRI-2-1605 CHE-CFTRI-2-1606 CHE-CFTRI-2-1607 CHE-CFTRI-2-1608 CHE-CFTRI-2-1609 CHE-CFTRI-3-1601 CHE-CFTRI-3-1602 CHE-CFTRI-3-1603 CHE-CFTRI-3-1604 CHE-CFTRI-3-1605 CHE-CFTRI-3-1606 CHE-CFTRI-3-1607 CHE-CFTRI-3-1608 CHE-CFTRI-3-1609 CHE-CFTRI-3-1610	
Chemical	CSIR-IICT ##  <i>## Courses approved by 4<sup>th</sup> Senate in 2012 but inadvertently omitted from list of approved courses during conversion to 4-digit course code at 15<sup>th</sup> meeting in 2015. Regularization of the courses for continuance with correct course codes.</i>		CHE-IICT-2-2914 CHE-IICT-2-2915 CHE-IICT-2-2916 CHE-IICT-2-2917 CHE-IICT-2-2918 CHE-IICT-3-2922

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Faculty	Lab Name	New Courses (Course No.)	Modification of Courses (Course No.)
Physical	CSIR-CSIO	PHY-CSIO-3-2409	
Physical	CSIR-NPL		PHY-NPL-2-4602 PHY-NPL-1-4601 PHY-NPL-3-4605
Math & Info	CSIR-CMERI	MIS-CMERI-1-2101 MIS-CMERI-1-2102 MIS-CMERI-1-2104 MIS-CMERI-1-2105 MIS-CMERI-1-2108 MIS-CMERI-1-2110 MIS -CMERI-1-2115 MIS -CMERI-2-2101 MIS -CMERI-2-2102 MIS -CMERI-2-2103 MIS-CMERI-2-2106 MIS -CMERI-2-2108 MIS -CMERI-2-2110 MIS -CMERI-2-2111 MIS -CMERI-2-2112 MIS -CMERI-2-2122 MIS -CMERI-2-2123 MIS -CMERI-3-2102 MIS -CMERI-3-2103 MIS -CMERI-3-2111 MIS -CMERI-3-2113 MIS -CMERI-3-2114 MIS -CMERI-3-2115 MIS -CMERI-3-2116 MIS-CMERI-4-0001 MIS-CMERI-4-0002 MIS-CMERI-4-0003 MIS-CMERI-4-0098 MIS-CMERI-4-0099	
Engineering	CSIR-NEIST	ENG-NEIST-1-3901 ENG-NEIST-1-3902 ENG-NEIST-1-3903 ENG-NEIST-1-3904 ENG-NEIST-1-3905 ENG-NEIST-1-3906 ENG-NEIST-1-3907 ENG-NEIST-1-3908 ENG-NEIST-1-3909 ENG-NEIST-1-3910 ENG-NEIST-1-3911 ENG-NEIST-1-3912 ENG-NEIST-1-3913 ENG-NEIST-2-3901 ENG-NEIST-2-3902 ENG-NEIST-2-3903 ENG-NEIST-2-3904 ENG-NEIST-2-3905 ENG-NEIST-2-3906 ENG-NEIST-2-3907 ENG-NEIST-2-3908 ENG-NEIST-2-3909 ENG-NEIST-2-3910 ENG-NEIST-2-3911 ENG-NEIST-2-3912 ENG-NEIST-3-3901 ENG-NEIST-3-3902 ENG-NEIST-3-3903 ENG-NEIST-3-3904	





Faculty	Lab Name	New Courses (Course No.)	Modification of Courses (Course No.)
		ENG-NEIST-3-3905 ENG-NEIST-3-3906 ENG-NEIST-3-3907 ENG-NEIST-3-3908 ENG-NEIST-3-3909 ENG-NEIST-3-3910 ENG-NEIST-3-3911 ENG-NEIST-3-3912 ENG-NEIST-3-3913 ENG-NEIST-3-3914 ENG-NEIST-3-3915 ENG-NEIST-4-0001 ENG-NEIST-4-0002 ENG-NEIST-4-0003	
Engineering	CSIR-NPL	ENG-NPL-2-4624 ENG-NPL-2-4625 ENG-NPL-3-4621 ENG-NPL-3-4622 ENG-NPL-3-4623 ENG-NPL-3-4624 ENG-NPL-3-4625 ENG-NPL-3-4626	

The Senate further ratified the courses proposed for the three PG Diploma programs to be started at CSIR-IGIB, CSIR-IMTECH and CSIR-NPL. Approval of Senate for these PG Diploma programs is proposed under as a separate item of the Agenda (Item No. 20) of this meeting. However, it was proposed that the course codes may be reviewed for finalization.

**Item No. 19: Agreement with The Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad:** The Senate ratified signing of the Agreement by AcSIR with CDFD, with approval of the Chairman, BoG, AcSIR, on February 1, 2019 at Hyderabad. Through the Agreement, AcSIR recognizes CDFD as its Associate Academic Center whereby AcSIR would accept students from CDFD for its different program like Masters' Degree, PhD and Integrated Masters'-PhD. The Senate was informed by the Chairman, Senate that CDFD plans to induct the first batch of students from January 2020 session.

#### ITEMS FOR DISCUSSION AND APPROVAL

**Item No. 20: PG-Diploma proposals:** The Senate reviewed the three proposals received from different CSIR Labs (CSIR-IGIB, CSIR-IMTECH and CSIR-NPL) for starting PG-Diploma Programs of one-year duration. The detailed programs, as recommended for consideration of the Senate by the Deans of the concerned faculty were reviewed and approved by the Senate for their initiation from the August 2019 session or later as per convenience and plans of the Labs. The details of the three Post Graduate Diploma programs are as follows:

- (i) Post Graduate Diploma in "**Genomics and Molecular Technologies for Industrial Applications**" - CSIR-IGIB;
- (ii) Post Graduate Diploma in "**Industrial Biotechnology**" - CSIR-IMTECH; and
- (iii) Post Graduate Diploma in "**Precision Measurements and Quality Control**" - CSIR-NPL.



The courses were ratified by the Senate (vide Agenda Item # 18 above). However, it was recommended that the course codes for all three programs may be reviewed for consistency with the AcSIR norms.

**Item No. 21: Proceedings of the Meetings of the Board of Studies of AcSIR in Biological & Chemical Sciences and Engineering & Physical Sciences:** The Senate reviewed the recommendations of the two Boards of Studies and approved the following:

- (i) **Re-structuring of the Course work requirement by the PhD students:** A PhD student would be required to take four courses (16 credits).

**Course 1: 'Research Methodology' (4 credits)**

Ethics, IP, Safety, Communications.	1 credit
Basic Mathematics & Statistical Methods	1 credit
Computer Applications & Informatics (Subject specific):	1 credit
Tools & Techniques (Lab specific):	1 credit

**Course 2: 'Inter-disciplinary Learning' (2 credits)**

Interface of any two disciplines as represented by five Faculty of Study viz. <i>Chemistry for Biologist, Biology for Chemist, Physics for Engineers etc.</i>	1 credit (mandatory)
Lab specific 1 module of inter-disciplinary nature	1 credit
Each Lab/ Institute shall provide 7 Lab-specific, Inter-disciplinary modules covering both the courses	

**Course 3: 'Advanced course' (6 credit)**

Each Lab shall have maximum of 10 modules (students can opt for any 2 modules of 3 credits or 3 modules of 2 credits)	6 credits (as covered by 2 or 3 modules)
Each Lab/ Institute shall provide maximum of 10 modules of Advanced courses	

**Course 4: 'Societal Program: Problem Understanding and Analysis' (4 credits)**

Societal Program	4 credits
Lecture series on Grassroot Innovations Presently to be offered by Prof. A.K. Gupta, IIM, Ahmedabad and taught through digital mode.	Mandatory participation
Any other Outreach Program including JIGYASA program may be brought under this module	

- (ii) **Modification in the conduct of Societal Program:**
- Societal Program would be a group level activity (maximum: 5 members) with substantial contribution from each member of the group. However, in case of a single student remaining ungrouped, he/she may be allowed to join the existing group even if the group strength rises to 6.
  - The activity could include teaching initiative for society.
  - A presentation and the report of the work need to be made collectively with individual role defined in the presentation.



- d) The evaluation of the course would be carried out by a committee comprising of the respective Supervisors of the students in the group as well as the activity Coordinator.
- e) Grade will have to be awarded only in terms of Satisfactory or Unsatisfactory.
- f) Laboratory Director shall designate the Activity Coordinator on a rotation basis, which will be ordinarily on a yearly basis.

**(iii) Timeline for completion of the coursework:**

The course work (Courses 1 – 4) needs to be mandatorily completed as per the following timeline:

Courses 1, 2 & 3	To be completed by Semesters 1 & 2
Course 4	To be completed before end of 3 <sup>rd</sup> Year of the PhD program or before but in any case, before appearing for Open Colloquium, whichever is earlier

- (iv) Modification of credit requirements for a PhD student enrolled in **Integrated Dual Degree Program (IDDP)**, under Engineering Sciences (after BE/BTech) would be **60 credits**:
  - a. Coursework requirement of **minimum 32 credits** shall include:
    - i. **Inter-disciplinary Learning' of 4 credits** at least are to be taken
    - ii. **'Advanced topics' of 4 credits** at least are to be taken
    - iii. Majority of the **remaining 24 credits** [i.e. 32 (minus) 4 (as in (a)(i) above (minus) 4 (as in (a)(ii) above)] can be completed by registering for Engineering Science courses
  - b. **'Research Methodology'** of minimum **4 credits** as mandatory
  - c. **'Societal Program'** of **4 credits** as mandatory
  - d. **'Research Credits' of minimum 28 credits (Mini Project: 4 credits, Project: 24 credits)** (replacing PhD Research Proposal of 20 credits)
- (v) **'Teaching Assistantship' for students.** Testimonial would be issued by the Supervisor for his/her student involved in Teaching Assistantship as per provisions approved by the AcSIR Senate at its 14<sup>th</sup> Meeting held on 08 May, 2015.

**Item No. 22: Renaming “Societal Program” as “Societal Program: Problem Identification, Understanding and Analysis”:** The Senate discussed in details the Societal Program, which is a unique course offered by AcSIR. The aim of the Societal Program is identification of social problems, intervention and value creation for the benefit of the Society. It was decided that the Societal Program be renamed as **“Societal Program: Problem Understanding and Analysis”**.

Modification in the structure and conduct of the Societal Program is detailed at Item No. 21(ii) above. The course is to be evaluated as 'Satisfactory' or 'Unsatisfactory'.

**Item No. 23: Revision in Number of students with Faculty member:** The Senate discussed the matter in details and approved the allocation of students to the Faculty as per the norms defined in clause 6.5 on 'Allocation of Research Supervisor' of the UGC (Minimum Standards and Procedure



for Award of MPhil/PhD Degrees) Regulations, 2016, which AcSIR adopted at its 18<sup>th</sup> meeting held on 30.11.2016.

Accordingly, the following allocation has been approved by the Senate:

1. **Assistant Professor: 4 students** (Except Junior Scientists- Scientist B of CSIR system, if recognized as AcSIR faculty-Assistant Professor, is eligible only as a co-guide)
2. **Associate Professor: 6 students**
3. **Professor: 8 students** (change: from 6 students to 8 students)
4. **Outstanding Professor: 8 students**
5. **Fellows** (such as Quick Hire Fellows/Ramanujan Fellows/Ramalinga swami Fellows/INSPIRE Fellows and other equivalent Fellows) **recognized as Assistant Professor/Associate Professor: 4 or 6 students** as per their designation. Further, it is mandatory to include a co-guide who is a AcSIR faculty of the Lab
6. **CSIR Emeritus Professor: 2 students** and Mandatory to include a co-guide who is a AcSIR faculty of the Lab

In all cases where inclusion of co-guides is mandatory, i.e., for Fellows and Emeritus Professors, inclusion of the co-guide is to be approved by the Academic Committee.

Further, in following cases, student number would not be counted towards this ceiling of number of students permitted for each level of faculty:

- i) Being a co-Guide of a student; and
- ii) PhD student who have submitted his/her thesis but not awarded

**Item No. 24: Evaluation of AcSIR PhD by non-AcSIR Faculty:** The Senate discussed and approved that CSIR Scientists in the capacity of a Scientist of CSIR and not as AcSIR faculty, can be proposed as External Examiners for evaluation of PhD thesis submitted by AcSIR students. Accordingly, detailed guidelines on the Examiners' panel as approved by the AcSIR Senate (17<sup>th</sup> meeting, 19.08.2016) stands as follows:

- i) Only one examiner is allowed from any institute/university
- ii) Maximum four examiners can be proposed from a single state
- iii) For thesis submitted from CSIR Labs a maximum two examiners can be proposed from two different sister CSIR Labs with limit of only one examiner belonging to the same city
- iv) CSIR Scientists (as in iii above) can be proposed as external examiners in the capacity of CSIR Scientists only and not as AcSIR faculty
- v) An examiner cannot be proposed who is a regular or retired faculty of the same institute from where the thesis is being submitted
- vi) The Dean has the right to include an examiner that has not been proposed by the Supervisor.

Meanwhile, the Senate was of the view that a wider discussion on the matter in long term perspective would be useful.

**Item No. 25: Revision in honorarium for AcSIR PhD Thesis evaluation:** The Senate reviewed and approved the proposal for enhancement of honorarium payable **to external examiners (national) for evaluation of AcSIR PhD thesis to Rs. 4000/-** (from Rs. 2000/-) per PhD thesis evaluation. The Senate further approved revision of honorarium payable to **foreign external examiners for evaluation of AcSIR PhD thesis and conduct of viva voce to US\$ 100** (from US\$ 200) per PhD



thesis evaluation. The Senate further approved that proposal of selecting foreign examiners for evaluation of AcSIR PhD thesis would require concurrence of the Director, AcSIR before approval of the Examiners' panel for thesis. Honorarium payable for conduct of viva voce (by national experts) would remain unchanged at Rs. 2000/- per viva voce.

**Item No. 26: Masters'/PhD enrollment for Group III employees of CSIR at AcSIR:** The Senate discussed the long-pending matter of allowing Group III employees of CSIR to enroll into the Masters'/PhD program, in a manner similar to the Group IV employees. After deliberation the Senate approved the proposal. Such admissions of Group III have to be with approval of the Director of the concerned Lab and such admissions have to be conducted in a competitive manner. Also, it was recommended that there should be quality parameters in place and strict monitoring by the DAC of the student. Further, it was recommended that their upper age limit should be restricted to at least 6 years of service remaining in CSIR and they would have to submit thesis before their superannuation, failing which their registration would be cancelled. The Senate also suggested that, should a gap in knowledge base is felt by the Supervisor or DAC of a CSIR Group IV or Group III staff, enrolled in PhD program of AcSIR, appropriate remedial courses may be suggested to him/her. These courses would be considered as Audit Courses and would not be counted towards prescribed compulsory PhD coursework. Also, these remedial courses would not be taken into account towards computation of CGPA. All other conditions as applicable to CSIR Scientists including a discrete doctoral research problem of inter-disciplinary nature, without any conflict of interest would be applicable. Further, similar to the Group IV employees, the Group III employees also must (a) have a guide or co-guide from another reputed institution other than his/her parent CSIR Institute; and (b) spend at least one semester in the institute of the guide or co-guide including course work, if necessary, to justify the interdisciplinary nature of the study. Further, they would be considered as Sponsored candidates but tuition fees would be equivalent to regular students of AcSIR for the program, as applicable from time to time.

### **SUPPLEMENTARY ITEMS**

**Item No. 27 (a):** A situation was brought to the attention of the Senate, wherein a CSIR employee seeking admission to PhD in AcSIR from a particular Lab, which does not have recognition for the Faculty the candidate wishes to enroll in. In order to address such a situation, the Senate decided that the CSIR employee can seek PhD admission through any CSIR Lab having the necessary Faculty recognition (under which the employee wants to enroll), after the approval of both the Directors of the concerned CSIR Labs. In this case, the primary guide would be from the Lab through which the employee has taken admission in AcSIR and the co-guide can be from his/her parent Lab. The requisite course work can be taken at any CSIR Lab.

**Item No. 27 (b):** Matter related to publication of students out of PhD research work in SCI journals (also discussed in Item No. 9 above).

The Senate discussed in details regarding the mandatory inclusion of Publication in "SCI" journals against "Peer reviewed Journals". After detailed discussion, the Senate agreed that Publication out of PhD research should be published in SCI Journals.



Further, few of the members pointed that new journals require at least 3 years' time to get indexed as SCI journal. It was decided by the Senate that such exceptional cases, where publication is in new Journals (off-shoots/associate of an established SCI journal of repute), would be reviewed by the Academic Committee on a case to case basis, for interim inclusion in the list of prospective SCI journals. This inclusion would also require approval of the Director, AcSIR.

The meeting ended with a vote of thanks to the Chair.

  
(Rajender Singh Sangwan)  
Chairman, Senate