

Kerala State Higher Education Council

Minutes of the 28th Executive Body meeting held on 25.03.2022

The Twenty Eighth Executive Body Meeting of the third KSHEC was held on 25.03.2022 at 11.00 am. through video conferencing. Prof. Rajan Gurukkal P.M. Vice Chairman presided.

The following members attended the meeting.

- | | | | |
|----|-------------------------|---|------------------------------------|
| 1. | Prof.RajanGurukkal P.M. | : | Vice Chairman, KSHEC. |
| 2. | Dr. Gopinath Reveendran | : | Vice Chancellor, Kannur University |
| 3. | Dr.FathimathuZuhara | : | Member, Executive Body, KSHEC |
| 4. | Dr. J. Rajan | : | Member, Executive Body, KSHEC |
| 5. | Dr. R. K. Suresh Kumar | : | Member, Executive Body, KSHEC |
| 6. | Dr. Joy Job Kulavelil | : | Member, Executive Body, KSHEC |
| 7. | Dr.RajanVarughese | : | Member Secretary, KSHEC |

The following agenda was transacted and decisions taken.

- Item No. 1& 2 – 1. Draft UGC – (Minimum Standards and Procedure for award of PhD Degree) – Regulations 2022 – Comments / Suggestions.
2. Draft UGC – Curricular Framework and Credit System for 4 year UG Programme Comments/ Suggestions.

Resolved to invite comments/ suggestions/ feedbacks on the UGC Draft documents from all stake holders and prepare a document based on it.

Item No. 3 NAAC – Provisional Accreditation for Colleges. (PAC) - Comments/ Suggestions.
Reported – It was resolved to conduct district level / University level orientation programmes on accreditation by SAAC.

Item No. 4 Higher Education Empowerment: Implementation Plan –Project Proposed by KSHEC.

Reported the following details of the project submitted to the Government as given below.



**HIGHER EDUCATION EMPOWERMENT
Implementation Plan
PROJECTS PROPOSED
by the Kerala State Higher Education Council**

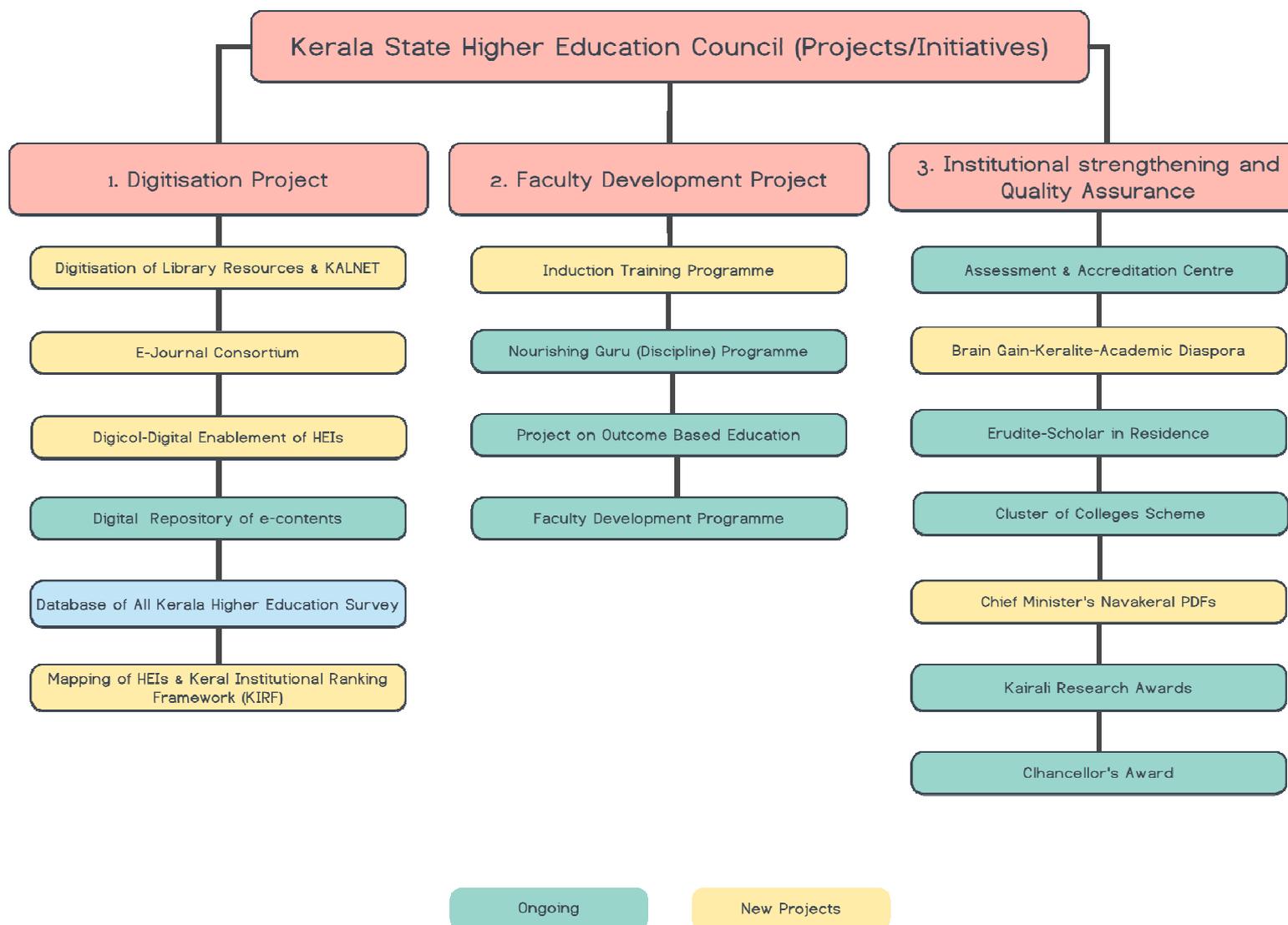
Projects & Initiatives of KSHEC

A. Summary

The Kerala State Higher Education Council undertakes to implement the following schemes through its five centres namely (1) Centre for Research on Policies in Higher Education (2) Centre for Research on Curriculum Development (3) Centre for Research on Human Resource Development and Capacity Building (4) State Assessment and Accreditation Centre (5) Faculty Development Centre.

Timeframe & Expenditure & Human Resource Requirement

The Time frame, expenditure and Human resource required for the implementation of following schemes to be undertaken by the Council during 2022-23 is given in the following pages.



1. Digitization Projects in HEIs



1.1. Digitisation of Library Resources & KALNET

1.2. E-Journal Consortium- Access to e journals



1.3. DIGICOL-Digital Enablement of HEIs

1.4. Digital Repository of course materials



1.5. All Kerala Higher Education Survey Database

1.6. Mapping of HEIs & Kerala Institutional Ranking Framework (KIRF)



Total Expenditure: 52.2 crores

1.1.

for Digitisation of Library Resources & Development of Kerala Academic Library Network (KALNET)

Search interface for library resources for the stakeholders in higher education

A network of academic libraries of the universities and colleges for sharing of resources through KALNET, which has two levels (i) Libraries of Universities (ii) Libraries of affiliated colleges and later other HEIs.

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|---|--|---|---|--------------------------|
| <ul style="list-style-type: none"> • Committees of Vice Chancellors/ Librarians for consultation • KALNET portal created in KSHEC website. • Data hosted on State Data Centre • Participation of 14 universities-networking of 140 libraries. • Data of more than 15 lakh collection | <p>Mar 31, 2022</p> | <p>Agencies involved</p> | <ul style="list-style-type: none"> • Networking of 200 libraries of HEIs in the State & addition of library material from 15lakhs to 20 lakhs • Better utilisation of library resources and increased access to students and faculty • Digitisation and Preservation of rare collections/special collections/manuscripts of university and other libraries | <p>10 Crores</p> |
| | <ul style="list-style-type: none"> • Inclusion of 50+ colleges in to KALNET • To include the research institutions like CDS and the units under KSCSTE • Project for digitisation of library resources in universities & colleges, other libraries • (Software & Hardware Installation /Technical expertise/infrastructure and other expenses) | <ul style="list-style-type: none"> • KSHEC (implementing agency) • Nodal officers at University, Colleges & University of Calicut | | |

1.2.

E-Journal Consortium

Access to e journals for Universities & other HEIs

This consortium is aimed at providing access to e-journals of internationally reputed publishers to universities to enrich the knowledge and increase the research output of academic community

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|--|--|---|--|--------------------------|
| <ul style="list-style-type: none"> • Committees of Vice Chancellors/ Librarians for consultation • Collected and consolidated e-journal requirement from universities • Consultation with some of the leading publishers • Prepared a tentative list based on requirements of universities | <p>Mar 31, 2022</p> | <p>Agencies involved</p> | <ul style="list-style-type: none"> • Access to colleges and other institutions • Increasing the number of e-journals & academic database • Increased research output/productivity of faculty/universities will increase ranking state institutions globally | <p>20 crores</p> |
| | <ul style="list-style-type: none"> • Negotiations with librarians/publishers • Making consortium functional • Expansion of e - consortium by including more publishers and e-resources. | <ul style="list-style-type: none"> • KSHEC / Universities (Nodal officers at university) | | |

1.3.

DIGICOL-Digital Enablement of HEIs in Kerala

Let's Go Digital Scheme

Implement MOODLE-LMS in Higher Education Institutions in the state by providing free centralised server space in association with Digital University of Kerala

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|---|---|---|---|-------------------|
| <ul style="list-style-type: none"> Developed Digital Platform-DIGICOL for colleges Trained 3500+ faculty members of university departments and colleges by the Faculty Development Centre, KSHEC Trained entire faculty of 35 colleges in the state Provided Server Space facility for 12 colleges at DUK District wise meetings of Principals of various colleges in the State. Created a pool of trainers in MOODLE-LMS | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> 500 Colleges on MOODLE-LMS Digital platform Utilisation of <i>Coursera, edX, Udacity, Future Learn, Canvas</i> etc. <i>Virtual Labs</i> of MHRD, <i>Merlot, Siemens</i> etc Boost to online education 1500 faculty/30 colleges get trained Facilitates Blended learning/Flipped classroom/online teaching learning evaluation Bridging Digital Divide Linkage to <i>K-fone</i> Proctored Examination Solutions (Mercer, Mettle, Merritrac etc.) | 20 crores |
| | <ul style="list-style-type: none"> Providing centralised server facility for 35 colleges at Digital University Acquire Space at State Data Centre /enhance the capacity of Data Centre at DUK | <ul style="list-style-type: none"> KSHEC / Digital University of Kerala and HEIs in the state and Universities | | |

1.4.

**Online Digital Repository of course materials
Vast Resource of e-contents for UG/PG programmes**

A portal facility to host e-contents of courses of UG/PG programmes developed by the faculty members of government, affiliated colleges and universities similar to SWAYAM/NPTEL

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|---|--|---|---|--------------------------|
| <ul style="list-style-type: none"> • Portal facility developed, which hosts 3000+ e-contents on various subjects • Access provided to teachers and students | Mar 31, 2022 | Agencies involved <ul style="list-style-type: none"> • KSHEC • DUK • Other HEIs | <ul style="list-style-type: none"> • Access to 5000+ E-contents • Enhancing the quality of e- contents and expanding the resources using advanced technology of digital pedagogy • Academic credit to e-content developers /resource persons • single window access to e-contents/resources and access to courses of UG/PG levels for faculty and students in colleges • Building State Level Knowledge Asset for research leading to the development of knowledge economy • Targeted no. of registered users-2 lakhs | 1 crore |

1.5.

All Kerala Higher Education Survey

Database of Higher Education Institutions in the State

Developing a comprehensive database of higher education institutions in the state based on several parameters including state specific features with time bound updation. To strengthen official statistical system for review the performance of education sector in its regional divergences across the state. This scheme for is similar to AISHE

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|--|---|-------------------|---|--------------------------|
| <ul style="list-style-type: none"> • State Specific features added • Dedicated portal created in KSHEC website • Developed online method of data collection • Nodal officers in HEIs • Published report on All Kerala Higher Education Survey Report 2020 | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> • Annual report on All Kerala Higher Education Survey • Facilitates the Institutional Planning of HEIs in the state • Report on effectiveness of online learning • Report on IT survey to the Government • Report to State Planning Board | 20 lakhs |
| | <ul style="list-style-type: none"> • Publication of Survey Report on IT-infrastructure structural facilities in HEIs • Coordination of AISHE survey 2021 • Orientation Training for Nodal officers • Data on digital divide | KSHEC | | |

1.6. Kerala Institutional Ranking Framework (KIRF) and Institutional Mapping Project

More Realistic Ranking Framework of HEIs in the state & Geographical Mapping

Kerala-specific ranking index for universities and colleges on the lines of the National Institutional Ranking Framework in the state of Kerala. This will enable holistic ranking of the 1500+ higher education institutions in the state. This will be a pioneering step in the country.

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|--|--|-------------------|---|--------------------------|
| <ul style="list-style-type: none"> • Convened meeting with state universities and a few colleges • Prepared the criteria of selection and assessment metrics | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> • Launching of KIRF with declaration of Ranks • Geospatial Maps of HEIs Integrated with necessary information based on survey data available on single click | 1 crore |
| | <ul style="list-style-type: none"> • Preparation of Guidelines • Constitution of selection/peer committee • Create the portal in KSHEC website with adequate software updation • Orientation programmes for colleges • Start of Ranking Process in 10 colleges • Thematic Mapping of HEIs on category/type based-(GIS) | KSHEC | | |

2. Faculty Development Projects in HEIs



2.1 Induction Training for newly recruited

2.2. (NGP) Discipline specific training for faculty



2.3 Outcome Based Education (OBE) Redesigning of Courses

2.4. Faculty Development Programme (Short-term)



Total Expenditure: 8 crores

2.1.

Induction Training Programmes for faculty

In collaboration with major centres of excellence

Revamping MGP (Moulding the Guru Programme) of KSHEC by organizing Induction level training programme in collaboration with major centres of excellence in the country as well as eminent scholars who can impart innovative pedagogical skills and capacity building of new entrants in the field of teaching.

| Current Status/ Tasks completed | Time-Frame & Achievable Target | | Outcome | Total Expenditure |
|------------------------------------|--------------------------------|-------------------|-------------------------------------|-------------------|
| Phase I | Phase II Early Gains | | | |
| MGP programmes are | Mar 31, 2022 | Agencies involved | •Completing induction programme for | 1 crore |

| | | | | |
|--|---|--|---|--|
| <p>designed which can address topics on pedagogy, emerging areas of knowledge and writing of learning outcomes and Outcome Based Education</p> | <ul style="list-style-type: none"> • Conduct of training for newly appointed faculty during the current year impart • Knowledge on their roles and responsibilities as faculty members • Familiarize themselves with the structure, functioning, governance, rules, regulations and • Professional expectations in higher education institutions • Explore pedagogical processes - aims of higher education, curriculum, instructional planning, • classroom management and transaction, use of ICT resources and assessment tools • Recognise the importance of self-development, socio-emotional development of students and the importance of nurturing ethics and values in higher education | <ul style="list-style-type: none"> • KSHE C • Universities | <p>new teachers in universities and colleges</p> <ul style="list-style-type: none"> • Skill Development in use of ICT & digital pedagogy meeting UGC prescriptions on quality enhancement • Enhance the professional skill on knowledge delivery, research methodology, technical writing | |
|--|---|--|---|--|

2.2.

Nourishing Guru Programmes (NGP)

Discipline specific training for newly recruited teachers

Revamping NGP as Discipline specific training for newly recruited teachers. This in collaboration with centres of excellence in the country as well as national research institutions. It can be done either through providing financial & academic support to the HE institutions for organizing such programmes. The lead college can conduct such training with participation from faculty of nearby colleges

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | 6 months Outcome | Total Expenditure |
|--|--|---|--|--------------------------|
| KSHEC has organised various subject specific training of 3 weeks duration in association with government institutions and experts from national institutions of excellence | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> • Complete Discipline wise training for faculty of universities/colleges • Exposure to advanced developments in discipline areas • R&D Innovation methods • Quality enhancement in subject areas and specialisations • Quality research output | 1 crore |
| | <ul style="list-style-type: none"> • Conduct of training on discipline specific areas in collaboration with reputed institutions and scholars through Brain Gain project & also through Erudite scheme • Hands-on-workshops on advanced technologies and instrumentation for quality enhancement in discipline specific and interdisciplinary research | <ul style="list-style-type: none"> • KSHEC • Universities • Colleges | | |

2.3.

Project on Outcome Based Education (OBE)

Redesigning of Courses of UG/ PG Programmes

All HEIs in the country is advised to implement OBE in curriculum design and practice by stating the learning outcomes of programmes and their courses including the Graduate Attributes. NAAC, UGC, NBA, AICTE etc. moots for the OBE in educational programmes.

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|--|---|---|--|--------------------------|
| <ul style="list-style-type: none"> • Training completed for various Board of Studies (BoS) of 7 universities and autonomous colleges • Institution Training provided to 24 colleges • Published comprehensive handbook on Outcome Based Education | <p>Mar 31, 2022</p> <ul style="list-style-type: none"> • Training for faculty in universities/colleges • Creation of taxonomy-based Question bank in universities | <p>Agencies involved</p> <ul style="list-style-type: none"> • KSHEC / Faculty Development Centre • Universities | <ul style="list-style-type: none"> • Encouragement to Multi-disciplinary/Cross disciplinary studies • Revamping of curriculum at UG/PG levels • Declaration of Graduate Attributes by Universities • Implementation of OBE in teaching Learning and Evaluation • Development of OBE Software • Bringing activity-oriented learning opportunities | <p>5 crores</p> |

2.4.

Faculty Development Programme (FDP)

Short-term Training Programmes for faculty

Short-term faculty development programmes for one week duration (5 working days) imparts quality and excellence in specific areas of pedagogy, and various emerging areas of knowledge. Beneficial to the faculty for CAS of promotion

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|---|--|---|---|-------------------|
| <ul style="list-style-type: none"> Completed 6 FDPs in 20-21 in which 1200 Faculty have been trained topics like on Online Education, Philosophy of Science where eminent scholars led the classes Short-term courses of one week duration are recognised by most of the universities as equivalent to UGC prescribed short term courses of FDCs Applicable for Career Advancement Scheme Promotions | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> Conducting FDP-short-term programmes for university/college teachers Enhancing Skill on use of ICT-technology enhancement-research methodology-technical writing | 1 crore |
| | <ul style="list-style-type: none"> Conduct of various training programmes for teaching faculty and education administrators Imparting Knowledge on various topics handled by eminent scholars/academicians | <ul style="list-style-type: none"> KSHEC Universities Colleges | | |

3. Institutional Strengthening and Quality Assurance (Ongoing)



3.1. State Assessment and Accreditation Centre (SAAC)

3.2. Brain Gain Database on Keralite-Academic Diaspora



3.3. Cluster of Colleges Scheme

3.4. Erudite-Scholar in Residence

Total Expenditure: 21 crores

State Assessment and Accreditation Centre (SAAC)

Ensuring Levels of quality through continuous Evaluation of HEIs of the state

First state in the country to establish a state level accreditation centre similar to NAAC to assess and grade HE institutions in incorporating important state specific criteria in its assessment items

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|---|---|-------------------|---|-------------------|
| <ul style="list-style-type: none"> State Specific Criteria | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> Completing Assessment | 1 crore |

| | | | | |
|--|---|--|---|--|
| <p>Developed</p> <ul style="list-style-type: none"> • SAAC Manual prepared • Online Portal Developed and Maintained by Council • Peer team constituted • First assessment completed with Grade awarded | <ul style="list-style-type: none"> • Assessment process of 5 colleges including peer member visit and other activities • Implementing PATH Scheme for Mentoring Aspirant HE Institutions & organise Residential Orientation Programme • Implementing Continuous Quality Improvement Programme • Institutional Development Plan (IDP) for those Institutions with NAAC grade point 2.5 or less • Workshop for Colleges for preparing IDP | <p style="text-align: center;">KSHEC</p> | <p>Process of 15 colleges</p> <ul style="list-style-type: none"> • Implementing PATH, Mentor-Mentee, IDP programmes in Institutions • Institutional Development Plan for those institutions • Enhanced visibility of Institutional Quality and Performance | |
|--|---|--|---|--|

3.2.

Brain Gain

Database on Keralite-Academic Diaspora around the Globe

Developing a database of Scientists, Social Scientists and Humanities Experts, Medical Professionals, Technocrats Management Experts working in the prestigious Universities and Research Institutions the world over and specializing in emerging areas of knowledge. The scheme envisages the utilisation of services of these academicians of Keralite origin

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|--|--|---|--|--------------------------|
| <ul style="list-style-type: none"> • Online registration facility on KSHEC portal • Creating database from countries around the world • Preparation of report | Mar 31, 2022 | Agencies involved <ul style="list-style-type: none"> • KSHEC • Universities | <ul style="list-style-type: none"> • Service of scholars of Keralite origin to the universities/colleges • Establish linkage between faculty & research institutions abroad with academic institution in Kerala • Arranging visits to universities/colleges • Arranging online lectures/ courses by NRK scholars | 5 crores |

3.3.

Cluster of Colleges Scheme

Sharing of Institutional resources among nearby colleges

The scheme for sharing institutional resources among partnering institutions for better higher educational outcomes. Academic infrastructure facilities are optimally exchanged between the students and teachers of the partnering institutions. UGC envisages that each cluster shall transform to individual universities.

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|--|---|---|--|--------------------------|
| <ul style="list-style-type: none"> • 3 clusters in Thiruvananthapuram, Ernakulam and Kozhikode are formed • Various activities organised and resources shared among the partnering colleges in each cluster • Handbook released | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> • Academic Autonomy for clusters for conducting examination • District wise clusters emerging as universities | 10 Crores |
| | <ul style="list-style-type: none"> • Formation of 3 New clusters Kannur Cluster with Government Brennen College, Thalassery as lead College (2) Kasaragod Cluster with Government College, Kasaragod as lead college and (3) Palakkad Cluster with Government Victoria College, Palakkad as lead colleges • Additional clusters are recommended for Thrissur & Alappuzha • Establishing common Instrumentation facility & Inclusive Learning Facility in 3 clusters • Special cluster can be formed in the aspirational district of Wayanad | <ul style="list-style-type: none"> • KSHEC • Colleges | | |

3.4.

Erudite-Scholar in Residence Programme Knowledge Exchange with Nobel Laurates

Inviting Nobel Laureates and other eminent scholars to interact with young researchers of state HEIs. Inspiring our talented researchers, and in opening up new opportunities for them to develop international research collaborations, Series of Lectures by visiting scholar at various institutions.

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | 6 months Outcome | Total Expenditure |
|---|---|-----------------------------|--|--------------------------|
| <ul style="list-style-type: none"> Invited 150 scholars on various domains of knowledge Established Academic collaboration among foreign universities Produced valuable research Output Linking with Brain Gain Scheme | Mar 31, 2022 | Agencies involved | 50 scholars to visit state universities/colleges | 5 crores |
| <ul style="list-style-type: none"> Bringing 2 scholars from abroad Bringing 2 scholars of Keralite origin from abroad Bringing 10 scholars from Abroad Bringing 2 scholars of Keralite origin from abroad Bringing 20 scholars from Abroad Consolidated report on academic & research output of the scheme over the years | <ul style="list-style-type: none"> KSHEC Universities Colleges | Link with Brain Gain scheme | | |

Kairali Research Awards

3.5.

Awards to the eminent scholars (Keralite Origin) who excel in their research work
 Gaveshaka Puraskaram and Gaveshana Puraskaram are given to encourage scholars & research pedagogues of Kerala origin within areas of Arts and Humanities, Biological Sciences, Chemical Sciences, Physical Sciences, Social Sciences and Lifetime Achievement Prizes for honouring most eminent research scholars for their lifetime contributions in research

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure |
|---|--|--|---|--------------------------|
| <ul style="list-style-type: none"> • Selection Committee formed with eminent scholars • Selection completed and awards declared for 2020 including awards to (Dr. K.N. Panikker, M.S. Dr.Valiathan, Dr. M.R. Raghava Varier) • Award ceremony conducted for distribution of awards • Project works as part of the awards started • Notification issued for 2021 period | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> • Declaration of awards for 2021 • Selection of qualified research proposals | 1.8 Crore |
| | <ul style="list-style-type: none"> • Preliminary screening of applications by subject experts • Panel of subject experts on various subject groups under one selection committee member • Short-listing of eligible proposals • Completion of selection process through Interview & project presentation • Declaration of awards 2021 | <ul style="list-style-type: none"> • KSHEC • Funding channel (DCE) | | |

3.6.

Chief Minister's Navakerala Post-Doctoral fellowships

Innovative Research Ideas on Development Goals of the state

Fellowships ranging from 50,000/- to 1,00,000/-per month for a period of two years. This Scheme has been designed to further the development plans of the state by promoting Research in domains of Eco diversity, Agriculture, Digital Technology, Genetics, Climate Change and the indigenous culture of Kerala.

| Current Status/Tasks completed Phase I | Time-Frame & Achievable Target Phase II Early Gains | | Outcome | Total Expenditure | | |
|---|--|--|--|-------------------------------|-----------------|-----------------|
| | Time-Frame | Agencies involved | | Plan | 1st year | Total (2 years) |
| <ul style="list-style-type: none"> Notification Issued for inviting applications Portal Facility developed for receiving applications with project proposals Guidelines Issued Selection Committee proposed with subject wise experts for screening & selection of PD fellows | Mar 31, 2022 | Agencies involved | <ul style="list-style-type: none"> Selection of qualified research proposals promote development plans of the state Final Selection of post-doctoral fellows | Plan I (500 PDFs) | 1st year | 60 Cr |
| | <ul style="list-style-type: none"> Preliminary screening of applications by subject experts Panel of subject experts on various subject groups under one selection committee member Short-listing of eligible proposals Completion of selection process through Interview & project presentation Selection of quality project proposals | <ul style="list-style-type: none"> KSHEC Higher Education Department | | | Total (2 years) | 122.5 Cr |
| | | | | Plan II (200 PDFs) | 1st year | 24 Cr |
| | | | | | Total (2 years) | 49 Cr |
| | | | | Plan III (100 PDFs) | 1st year | 12 Cr |
| | Total (2 years) | 24.6 Cr | | | | |

- Detailed table given separately

Human Resource -Staff Requirement

To carry out the above functions and responsibilities, staff strength of the council has to be adequately augmented forthwith. The schemes and initiatives suggested are meant to be implemented with the support of additional workforce. This can be considered only as a long-term investment for enhancing the quality of higher education in the context of the emerging knowledge economy

| No | Designation | No. of Posts | Mode of appointment | Qualification |
|----|---|--------------|---------------------|---|
| 1 | Faculty/Research officer (Assistant Professor and above) | 3 | On Deputation | Qualification of Research officers of KSHEC-deputation from Universities and Colleges |
| 2 | Research Associate/ Research Assistant | 2 | On contract | Qualification of Research Associate of KSHEC |
| 3 | Documentation Officer | 1 | On Deputation | UGC Qualified Assistant Librarians (Universities/Colleges) |
| 4 | Technical Assistants | 3 | On contract | (PG Science/Social Science with proficiency in data science & working with statistical software or B.Tech. with similar proficiency) |
| 5 | Programme Officer- Internationalisation of Higher Education | 1 | Permanent/ contract | Scale of Pay of Associate Professor PG in Social Science having at least 3-year post qualification academic experience in internationalisation of education preferably in national or international organisations. Preference would be given for research experience. (Ph.D./M.Phil); Age Limit -50 years; Scale of Pay-as per UGC |

| Total Expenditure-All Activities (Continuing schemes) | | Total Expenditure (Rs.) | |
|--|---|-------------------------|---------------------------|
| | | 2022-23 | Current Year (2021-22) |
| 1 | Project for Digitisation of Library Resources & Development of Kerala Academic Library Network (KALNET) | 10 Crores | 5 crores |
| 2 | E-Journal Consortium | 20 Crores | 12 crores |
| 3 | DIGICOL-Digital Enablement of HEIs in Kerala | 20 Crores | 12 crores |
| 4 | State Assessment and Accreditation Centre (SAAC) | 1 crore | 50 lakhs |
| 5 | Online Digital Repository of course materials | 1 crore | 50 lakhs |
| 6 | All Kerala Higher Education Survey | 20 lakhs | 10 lakhs |
| 7 | Brain Gain | 5 Crores | 2 crores |
| 8 | Project on Outcome Based Education (OBE) | 5 Crores | 1 crore |
| 9 | Cluster of Colleges Scheme | 10 Crores | 6 crores |
| 10 | Erudite-Scholar in Residence Programme | 5 Crores | 2 crores |
| 11 | Kairali Research Awards | 1.8 Crores | 80 lakhs |
| 12 | Kerala Institutional Ranking Framework (KIRF) and Institutional Mapping Project | 1 Crore | 50 lakhs |
| 13 | Induction Training Programmes for faculty | 1 Crore | 10 lakhs |
| 14 | Nourishing Guru Programmes (NGP) | 1 Crore | 10 lakhs |
| 15 | Faculty Development Programme (FDP) | 1 Crore | 20 lakhs |
| Total | | 83 crores | 42.8 crores |
| 16 | Chief Minister's Navakerala Post-Doctoral fellowships (100 no.) | 12 Crores | 2 crores |
| Grand Total | | 95 Crores | 44.8 crores |

- Detailed Expenditure of Navakerala PDF

| Plan I- (Estimated cost for 500 fellowships) | Total Expenditure (Maximum) (In Rs.) | |
|--|---|----------------------|
| | 1 st year | 2 nd Year |
| Fellowship for 500 scholars (Monthly fellowship ranging from Rs. 50,000- 1,00,000/person) | 60 crores | 60 crores |
| Contingency amount of Rs. 50,000 each for 500 scholars within two-year period of fellowship (set up laboratory and other facilities) | 2.5 crores | |
| Initial year of Implementation | 60 crores for first year | |
| Total for 2 years | 122.5 crores (including Contingency amount) | |
| Plan II (Estimated cost for 200 fellowships) | 1 st year | 2 nd Year |
| | 24 crores | 24 crores |
| Initial year of Implementation | 24 crores | |
| Total for 2 years | 49 crores (including Contingency amount) | |
| Plan III (Estimated cost for 100 fellowships) | 1 st year | 2 nd Year |
| | 12 crores | 12 crores |
| Initial year of Implementation | 12 crores for first year | |
| Total for 2 years | 24.6 crores (including Contingency amount) | |

B. Schemes in Detail

The detailed description of the implementation plan of the different schemes for the empowerment of higher education is given below. This is based on the Action Plan for Empowering Higher Education submitted to the Government by the KSHEC.

1. Centre for Research on Policies in Higher Education

i) Project for Digitisation of Library Resources & Development of Kerala Academic Library Network (KALNET)

The project envisages Digitisation and Preservation of rare collections/manuscripts of university and other libraries in the state. In order to ensure, co-operation of the libraries attached to the higher education institutions it was decided to form a network in the State (KALNET) which would enable the sharing of resources among them. KALNET linking the academic libraries of the universities and colleges came into being in February 2021. KALNET would consist of two levels (i) Libraries of a University (ii) Libraries of affiliated colleges and later other state HEIs.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|---------|----------|
| | 5 crore | 10 crore |

ii) E-Journal Consortium

The council resolved to establish a consortium of e journals in the State to cater to the needs of the academic community in wake of the rising costs of subscription to e journals and the paucity of funds faced by the universities. The KSHEC acts as the nodal agency of the consortium for which the state government as earmarked Rs.10 crores in the state budget for 2021-22.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|----------|
| | 12 crore | 20 crore |

iii) DIGICOL - Digital Enablement of HEIs in Kerala (Let's Go Digital initiative)

The Digital Enablement of Higher Education Institutions is plan in response to the call of the Government to *Go Digital* in teaching/learning in higher education at the earliest. The plan is to establish Moodle Learning Management System (LMS) in all the higher education institutions in the state. The Kerala State Higher Education Council then proposed implementation of a centralised model, resource-frugal, easier, quicker, and less expensive with Digital University of Kerala. Expenditure required for the conduct of cluster level institutional training and setting up a centralised cloud space for KSHEC in SDC or of Digital University.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|----------|
| | 12 crore | 20 crore |

4. State Assessment and Accreditation Centre (SAAC)

i) State Assessment and Accreditation Centre

The primary objective of the SAAC is to assess and assign state level accreditation and grades to all higher education institutions in the state including universities, government and aided colleges, autonomous colleges and self financing institutions/colleges. The Council had incorporated the establishment of SAAC as a major initiative in our plan proposal for 2019-20 and accordingly, the Honourable Governor declared the decision of the Government to establish the Centre under KSHEC. The Council conducted several district wise programmes for colleges pertaining to various aspects of SAAC.

The proposed initiatives of SAAC, the council scheme out (1) The PATH: Scheme for Mentoring Accreditation Aspirant Higher Education Institutions in Kerala, which organises Residential Orientation Programme (2/3 days) for Non-Accredited Higher Education Institutions, (2) Mentor- Mentee Scheme: For those institutions willing to go for accreditation within 3 years for Non-Accredited Higher Education Institutions (3) Continuous Quality Improvement Programme (CQIP) & Institutional Development Plan (IDP) for those Institutions with NAAC grade point 2.5 or less.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|---------|
| | 50 lakhs | 1 crore |

ii) Online Digital Repository of course materials of UG/PG programmes

Kerala State Higher Education Council provides a dedicated portal for students to access online study materials on various courses in UG/PG programmes in different subject disciplines of the state universities in its website. This repository has been developed in association with faculty members of government, affiliated colleges and universities in the state. A wide range of study materials for B.Sc./B.A./B.Com./B.B.A. and M.Sc./M.A./M.Com. programmes, are available. Students can easily choose it according to their interest and demand as the website provides user-friendly windows for search, view and downloading. Funding is required to enhance the quality of course contents by providing financial support to the faculty using advanced technology of digital pedagogy.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|---------|
| | 50 lakhs | 1 crore |

iii) All Kerala Higher Education Survey

KSHEC conducts survey on Institutions about Academic, Infrastructure components on annual basis. This scheme of conduct of survey is at par with AISHE but with state specific aspects have been addressed & captured through the process. Annual maintenance of portal facility and the other infrastructure updation is necessary.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|----------|
| | 10 lakhs | 20 lakhs |

iv) Expanding the Database on Keralite-Academic Diaspora (Brain Gain) and Utility

The Council in association with the State Planning Board has developed database of Keralite-Academic Diaspora around the Globe, which is termed as Brain Gain Project. This database includes the details of Scientists, Social Scientists and Humanities Experts, Medical Professionals, Technocrats Management Experts working in the famous Universities and Research Institutions the world over and specializing in emerging areas of knowledge. The scheme envisages that the academics will utilize their sabbatical to visit Kerala and offer their expertise. Maintenance of portal for registration and preparing the roadmap & utilisation of database are the future course of action.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|----------|
| | 2 Crores | 5 Crores |

2. Centre for Research on Curriculum Development

i) Training on Outcome Based Education (OBE)

Outcome Based Education (OBE) is the precisely drawn outcomes of a Course provide clarity of purpose in teaching/learning. All HEIs in the country is advised to implement OBE in curriculum design and practice by stating the learning outcomes of programmes and their courses including the Graduate Attributes of the student community. NAAC, UGC, NBA, AICTE etc. moots for the OBE in educational programmes. KSHEC continues to offer 2 day duration hands on training (activity oriented) and scientific expertise through residential workshop with the title "Redesigning of Courses for Outcome Based Education (OBE)" for the Board of Studies in all Universities & faculty of HEIs for redesigning the courses of UG and PG Programmes.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|---------|---------|
| | 1 Crore | 5 Crore |

3. Centre for Research on Human Resource Development and Capacity Building

i) Cluster of Colleges Scheme

The scheme for sharing institutional resources among partnering institutions for better higher educational outcomes. Presently there are 3 clusters in Thiruvananthapuram, Ernakulam and Kozhikode started in 2009. Each cluster is comprised of a number of institutions of higher learning located in proximity for its teachers and learner. Academic facilities including that of faculty resources, academic and research infrastructure etc. are optimally exchanged between the students and teachers of the partnering institutions. Cluster of Colleges provide a platform of optimal resource utilization of resources available as well as

the resources provided to any partnering institutions by state and central funding. UGC envisages that each cluster shall transform to individual universities. KSHEC has already proposed 3 more clusters in the state (1) Government Brennen College, Thalassery (Kannur Cluster), (2) Government College, Kasaragod (Kasaragod Cluster) (3) Government Victoria College, Palakkad (Palakkad Cluster) as lead colleges. Besides this, there is a general demand to implement this scheme in Alapuzha, Thrissur and Wayanad district.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|-----------|
| | 6 Crores | 10 Crores |

ii) Erudite- Scholar in Residence Programme

'ERUDITE Scholar-in-Residence' was introduced in 2010, during the term of the first Higher Education Council. This enabled Universities in the state to invite Nobel Laureates and other eminent scholars to interact with young researchers. The present Council rejuvenated the programme with the full conviction of its predominant role in inspiring our talented researchers, and in opening up new opportunities for them to develop international research collaborations.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|---------|---------|
| | 2 Crore | 5 Crore |

iii) Kairali Research Awards

Government of Kerala with an aim to encourage the most eminent research scholars and research pedagogues of the state, have instituted Kairali Research Awards vide an order No. G.O. (Rt) No.253/2018/H.Edn dated 08-02-2018 which has accorded the necessary administrative sanction as proposed by the Higher Education Department for an amount of Rupees 130 Lakhs from the Budget Provision during the current financial year 2018-19. This award has conceptualised for most eminent research scholars in various academic disciplines under four categories of scholars viz. Kairali Gaveshaka Puraskaram, Kairali Gaveshana Puraskaram, Kairali Lifetime Achievement and Kairali Global Lifetime Achievement Award. Subsequent to this the government vide G.O. (Rt) No.820/2018/H.Edn dated 24-04-2018 authorised the state Higher Education Council (KSHEC) as the secretariat for the Kairali Research Awards.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|-----------|
| | 80 lakhs | 1.8 Crore |

iv) Kerala Institutional Ranking Framework (KIRF) and Institutional Mapping Project

The council envisages the creation of a Kerala-specific ranking index, which will be termed as Kerala Institutional Ranking Framework (KIRF) for universities and colleges on the lines of the National Institutional Ranking Framework in the state of Kerala. This will enable holistic and comprehensive ranking of the 1500+ higher education institutions in the state. This will be a pioneering step in the country.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|---------|
| | 50 lakhs | 1 crore |

5. Faculty Development Centre (FDC)

FDC engages with various activities for enhancing the quality of teaching-learning activity in the state universities and the affiliated institutions through by providing advanced training with the help of experts from emerging areas of pedagogy, and other domains of knowledge in higher education. Professional development of faculty members has gained the attention of educational institutions all over the world. The present higher education sector of the country has to address the growing trend of globalization, advent of the knowledge economy, revolution and modern technology, social dissemination of educational outcomes in terms with Sustainable Development Goals (SDG) affecting university education. This can be accomplished through innovative and proven approaches in preparation and delivery of quality learning contents, conducting scientific research and solving community problems in the context of blended learning.

The future trend of training activity recommends the following thrust areas,

i) Induction Training Programmes for newly appointed faculty

As per the budget document, new recruitments for 1000 faculty members is expected to be completed in an year. Currently, KSHEC has MGP (Moulding the Guru Programme) for recent entrants in to this foray teaching profession in higher education. FDC will organise such induction level training programme in collaboration with major centres of excellence in the country as well as eminent scholars who can impart innovative pedagogical skills and capacity building of new entrants in the field of teaching.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|---------|
| | 10 lakhs | 1 crore |

ii) Nourishing Guru Programmes (NGP)

Discipline specific training for newly recruited teachers is being provided by KSHEC since 2018 but with limited number due to financial constraints. This in collaboration with centres of excellence in the country as well as national research institutions. It can be done

through providing financial & academic support to the HE institutions for organising such programmes. The lead college can conduct such training with participation from faculty of nearby colleges (as clusters)

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|---------|
| | 10 lakhs | 1 crore |

iii) Mid Service Training for teachers

The council has a scheme called Pruning the Guru Programme (PGP) for mid service training for teachers using professionally designed training modules. This can be organised at university and college level as part of the Career Advancement Scheme (CAS) for promotion at par with the functions of HRD centres of UGC in selected Universities. This will ensure continuous quality assurance of teaching profession.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|----------|
| | 25 lakhs | 75 lakhs |

iv) Faculty Development programme (FDP)

Short-term faculty development programmes for one week duration (5 working days) are beneficial to the teaching community as per the UGC regulations 2018. The council imparts quality training programmes since 2019 under this scheme inviting eminent scholars and scientists of profound knowledge. Being an essential component in Career Advancement Scheme (CAS) of promotion in HEIs, FDP attracts large number of turnout of teachers for attending. Although a couple of universities (Kannur University, University of Calicut, MG University) have approved the FDPs as equivalent to the short-term course prescribed under UGC regulations 2018.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|---------|
| | 20 lakhs | 1 crore |

iv) Navakerala Post-Doctoral Fellowships

The Government of Kerala calls for applications for the Chief Minister's Nava Kerala Post doctoral Fellowships announced in the State Budget (2021-22) The State is planning to grant Fellowships ranging from 50,000/- to 1,00,000/-per month for a period of two years. This Scheme has been designed to further the development plans of the state by promoting Research in domains of Eco diversity, Agriculture, Digital Technology, Genetics, Climate Change and the indigenous culture of Kerala. The expenditure has continuing nature. The scheme can be implemented in a phased manner starting with 50 to 100 Fellowships in the first year and reaching the target of 500 in a five year period, depending on the number of credible proposals and availability of funds.

| Total Amount Required | 2021-22 | 2022-23 |
|-----------------------|----------|-----------|
| | 2 crores | 12 crores |

iv) Prabudhata: Socialising the Benefits of Higher Education

Prabudhata is a project conceived and implemented by the KSHEC originally in collaboration with the Karakulam Grama Panchayathin Thiruvananthapuram District. As a model project Prabudhata aims to make use of potential of the local self governments and Kudumbashree to deliver the benefits of higher knowledge to the community and to garner, in return, inputs, themes, thoughts and ideas for meaningful research and studies from the society. The project to considered as a harbinger of a new democratic knowledge culture. The implementation of this project need to be expanded to other districts involving important social groups and respective HEIs.

| | | |
|-----------------------|----------|----------|
| Total Amount Required | 2021-22 | 2022-23 |
| | 20 lakhs | 20 lakhs |

C. Human Resource Requirement

To carry out the above functions and responsibilities, staff strength of the council has to be adequately augmented forthwith. The schemes and initiatives suggested are meant to be implemented with the support of additional workforce can bring about a sea change in higher education sector. And there is every reason to bear this additional expenditure. This can be considered only as a long-term investment for enhancing the quality of higher education in the context of the emerging knowledge economy.

| Human Resource -Staff Requirement | | | | |
|---|--|--------------|---------------------|--|
| To carry out the above functions and responsibilities, staff strength of the council has to be adequately augmented forthwith. The schemes and initiatives suggested are meant to be implemented with the support of additional workforce. This can be considered only as a long-term investment for enhancing the quality of higher education in the context of the emerging knowledge economy | | | | |
| No | Designation | No. of Posts | Mode of appointment | Qualification |
| 1 | Faculty/Research officer (Assistant Professor and above) | 3 | On Deputation | Qualification of Research officers of KSHEC-deputation from Universities and Colleges |
| 2 | Research Associate/ Research Assistant | 2 | On contract | Qualification of Research Associate of KSHEC |
| 3 | Documentation Officer | 1 | On Deputation | UGC Qualified Assistant Librarians (Universities/Colleges) |
| 4 | Technical Assistants | 3 | On contract | (PG Science/Social Science with proficiency in data science & working with statistical software or B.Tech. with similar proficiency) |

| | | | | |
|---|---|---|---------------------|--|
| 5 | Programme Officer- Internationalisation of Higher Education | 1 | Permanent/ contract | Scale of Pay of Associate Professor PG in Social Science having at least 3-year post qualification academic experience in internationalisation of education preferably in national or international organisations. Preference would be given for research experience. (Ph.D./M.Phil); Age Limit -50 years; Scale of Pay-as per UGC |
|---|---|---|---------------------|--|

Item No. 5 - Report on Four Years of KSHEC 2017-21.

Approved the summary of the activities of the third Council during 2017-21 (Summary appended).

Item No. 6 - Reporting - Government letter on Deemed University.

After detailed discussion, the report on Deemed Universities was approved and decided to forward the same to the Government (Report appended).

Item No. 7 - Reporting - Centres of Excellence – Advisory committee meeting.

The Advisory Committee constituted for Centres of Excellence and the Minutes of the first meeting of the COE held on 26.02.2022 were reported and approved.

Advisory Committee

Chairman

Dr. Padmanabhan Balaram
Former Director, IISc, CV Raman Road, Bangalore

Special Invitee

Prof. Vijay Raghavan
National Centre for Biological Sciences (NCBS)
Currently,

Special Invitee

Prof. Romila Thapar
Professor Emerita
Maharani Bagh
New Delhi

Members

Prof. Sankaran Valiathan
National Research Professor, Manipal University, School
Life Sciences,
Dr. T.M.A. Pai Planetarium Complex, Manipal,

Prof. Satheesh.S.K
CAOS, IISc, CV Raman Road, Bangalore – 560012, Ph:

Prof. Satyajit Mayor
Director, NCBS, Tata Institute of Fundamental Research,
Bellary Road, Bangalore

Prof. Suresh Das
Former Vice Chairman, KSCSTE, Thiruvananthapuram

Prof. Raman Sukumar
Retired Professor, CES,IISc, CV Raman Road, Bangalore

Prof. H.A. Ranganath
Former Vice Chairman, Bangalore University, Bangalore

Prof. Prabhat Patnaik
Professor Emeritus, JNU, New Delhi

Prof. Jayakrishnan.A
Former Vice Chancellor, Kerala University

Prof. Gagandeep Kang
The Wellcome Trust Research Laboratory, Division of
Gastrointestinal Sciences, Christian Medical College,
Vellore, TN – 632004, India

Prof. Gangan Prathap
Former Vice Chancellor, CUSAT

Prof. Divakaran.P.P
Former Professor, IUCA, Pune

Prof. Ajayaghosh.A
Director, NIIST, Thiruvananthapuram

Prof Rajan Gurukkal
Vice Chairman, KSHEC

Dr. V. Venu IAS
Additional Chief Secretary
Higher Education Department

Dr. Rajan Varughese
Member Secretary, KSHEC

Minutes of the Advisory Committee First Meeting 26 Feb 2022

Chairperson: Prof. P. Balram (former Director, Indian Institute of Science, Bangalore).

Special invitees: Prof. VijayRaghavan, Principal Scientific Advisor, Govt of India;
Prof. Romila Thapar (Professor Emeritus, Jawaharlal Nehru University).

Members Present:

Professors Dr. Sankaran Valiathan (National Research Professor, School Life Sciences, Manipal University); Dr. Satyajit Mayor (Director, National Centre for Biological Sciences, Bangalore); Dr. Suresh Das (former Vice Chairman, Kerala State Council for Science, Technology and Environment); Dr. Raman Sukumar (Retired Professor, Centre for Ecological Sciences, IISc); Dr. Ranganath, H.A (former Vice Chancellor, Bangalore University); Dr. Prabhat Patnaik (Professor Emeritus, JNU); Dr. A. Jayakrishnan (former Vice Chancellor, Kerala University); Dr. Gagandeep Kang (Professor & Head of the Division of Gastrointestinal Sciences, Christian Medical College, Vellore); Dr. Gangan Prathap (former Vice Chancellor, Cochin University of Science and Technology); Dr. P.P. Divakaran

(former Professor, Tata Institute of Fundamental Research, Mumbai); and Dr. A. Ajayaghosh (Director, National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram).

Meeting Began at 6 pm

Prof. Rajan Gurukkal (Vice Chairman, Kerala State Higher Education Council) welcomed all.

Dr. R. Bindu (Respected Minister for Higher Education) made the initial remarks. Dr. Bindu stated the project of Centres of Excellence as a part of the State's higher education quality enhancement strategy. Outlining the purpose of the video conference as the effort to elicit expert opinions from the august body of scholars, she solicited their considered recommendations and pieces of advice in identifying areas for advanced research in the State. She mentioned that the Government wanted their valuable suggestions not only in the designing of CoEs, but also in locating appropriate experts capable of running them effectively and fruitfully.

Sri. Pinarayi Vijayan (Honourable Chief Minister) delivered the opening address.

(Text of the Address: Having achieved hundred percent literacy, notable progress in school education, and a globally distinct status in healthcare, Kerala is now focussing on empowering its higher education. Serious reforms are being initiated in the sector. Various incentives by way of awards and fellowships have been instituted. The two Chancellor's awards for the universities, several Kairali research fellowships and six lifetime achievements awards, national as well as global, and the Chief Minister's five hundred postdoctoral research fellowships are examples. The project of Centres of Excellence is a part of these initiatives.

Kerala has been growing fast as a knowledge society with its enterprising service sector. Through the Kerala Development and Innovation Strategy Council we are strengthening the sector with well skilled digital workforce competent to serve anywhere in the world. What it mobilises and prepares is a class of experts in digital technologies, well versed in generating, storing, processing, communicating, exchanging and consuming information or data. We have established a university of digital sciences, innovation and technology to venture further in this field.

Now our move is to enable the knowledge society to leapfrog into knowledge economy. Many Keralites are working all over the world as experts with decisive participation in knowledge production across various fields of specialisation. In that sense Kerala's contributions to knowledge production is significant. But these experts are not available for the development of the State due to 'brain drain,' a national issue. We have introduced a scheme called 'brain gain' to win back at least some of our best brains in different parts of the world.

Our students gain admission in all national institutions and perform very well there. We are not short of higher education institutions that attract good students. But lack of in-house excellence has always been a serious problem. It may be due to various limitations in the conduct of the institution, which are perhaps academically too unchallenging for the students to maximise their ability.

Kerala has built up several nationally important research institutions. Some of them have become eventually national institutions. National institutions are our institutions too, but we want institutions of excellence owned by the State as well. Hence the Government has decided to establish thirty Centres of Excellence in various fields of knowledge.

The Government sees the opening of Centres of Excellence as a fruitful strategy for the State's higher education sector to set globally benchmarked standards of research and advance through discoveries and innovations. Our goal is to empower the State to be an effective participant in the knowledge economy by being proficient in globally important fields of research and in the forefront by evolving sustainable technologies for building a New Kerala, equitable and resilient.

Kerala has opened a few globally significant institutions of advanced researches. The Institute of Advanced Virology established in 2019 in the Bio 360 Life Sciences Park, is one among them. It is envisioned as a centre of excellence to work in collaboration with international institutions of Virology research, diagnosis and management of emerging and re-emerging infectious viral diseases.

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Another example is the International Research Institute in Ayurveda with a museum of old manuscripts and a park of medicinal herbs. This institution is in its initial phase. There are a few inter-University centres in the State, the potential of which the State Higher Education Council is trying to ascertain with the help of experts. Universities have proposed various fields of emerging importance for consideration.

We conceive a Centre of Excellence as an autonomous institution of advanced research in a leading-edge area of specialisation, run by a team of highly-motivated experts engaged in the production, application and publication of new knowledge. Pick the lead-innovators through higher-order recruitment criteria and fund them liberally to start Centres of Excellence is what we propose.

We intend to choose the domains of research not only from Science and Technology or their interfaces alone, but also from Social Sciences, Humanities and Liberal Arts to carry out interdisciplinary researches. It is a matter of priority for us to provide a sound and critical knowledge base for the society to facilitate public policy debates that strengthen our democracy.

You are scholars famed for cutting edge research and world renowned contributions in your fields. What the Government wants is your guidance in identifying relevant fields of specialisation and dynamic academic leaders, who can build up Centres of Excellence in the areas concerned. I know this is not done in one video conference. We will have more conferences. A few International Online Conferences of academic planners and institution builders like most of you have to be organised for advancing further. Inviting your help and cooperation, I wish you all the best for a very fruitful discussion).

Prof. Balram chaired the advisory session and conducted the proceedings.

After the Chair's initial remarks congratulating the Chief Minister's project to start Centres of Excellence (CoEs) in the state, Prof. VijayRaghavan spoke as a special invitee. He hailed the Government commitment to promote high quality research in the State through the establishment of CoEs. He called upon the Government of Kerala to tap the heavy budgetary allocation made for R&D by the Central Government and promised all help to Kerala in securing the Government of India's support. Prof. Romila Thapar also congratulated the Chief Minister's special initiative in the field of research and emphasised the importance of autonomy and interdisciplinary in the conduct of the CoE. Prof. Valiathan gave a detailed academic justification for transforming the International Research Institute in Ayurveda at Iritty, in Kannur District; which is coming up with a big medicinal herbal park and a museum of manuscripts, into a Centre of Excellence. Prof. Valiathan stressed the need for focusing on the Biology and Immunology of Ayurvedic healthcare, besides a scientific analysis of traditional texts, the genealogy of which he traced back to *Agnivēśa tantra* quoted by Charaka but not retrieved as yet. He also stressed the indispensability of standardisation of treatment in Ayurveda based on scientific proof.

Prof. Romila Thapar agreed with Prof. Valiathan and underscored the importance of examining traditional healthcare in different cultures like the Chinese Medicine. She pointed out that like in the case of Ayurveda, Kerala has a long history of contribution to the field of astronomy and mathematics. The Kerala School of Mathematics at Kozhikode, which has been functioning in the campus its own since 2007, as an INSA sponsored institution under the initiative of Prof. Valiathan; but yet to gain academic visibility. Prof. Thapar recommended the need for transforming it into a Centre of Excellence.

Prof. Raman Sukumar reflected on the proposal of the Department of Western Ghats Institute for Wildlife Research and Tribal Welfare in the Campus of Kerala Veterinary and Animal Science University, Wayanad; seeking transformation into a Centre of Excellence. According to Prof. Sukumar the proposal focuses on various issues such as wildlife conservation, biodiversity, eco-restoration, tribal community welfare, zoonotic diseases and One Health. Prof. Sukumar suggested that the proposal should have an integrated focus and hence could be conceived as a 'Centre for One Health: Western Ghats Wildlife Human Interface and Zoonotic Diseases'.

A proposal for transforming The International Inter-university Centre of Nano Science and Nano Technology as a Centre of Excellence in the Campus of Mahatma Gandhi University, Kottayam; recommended by Dr Suryasarathi Bose, Associate Professor, IISC; was put forward.

Similarly, a Thanu Padmanabhan Centre of Astronomy and Astrophysics proposed by the University of Kerala recommended by Dr. Somanath (Chairman, ISRO) was brought to the attention of the scholars. Nevertheless, there was no discussion about the feasibility wanting details.

Prof. H.A. Ranganath reflected on the two proposals for Proteomics and Genomics, in the campus of the Kannur and Calicut Universities. In his opinion, while idea of Centre of Excellence in the field is relevant, the proposals show inadequacy of scientific knowledge in genomics.

Likewise, a proposal for the transformation of the centre for Neuroscience in the campus of the Cochin University of Science and Technology, recommended by Prof. T. Govindaraju of Jawaharlal Nehru Centre of Advanced Science Research was brought to notice but excited no discussion wanting time and more details.

General Discussion

Prof. Thapar underlined the relevance of maritime studies, an area of worldwide interest today, to the State that is a land of immense coastal heritage awaiting deeper probing. She, hence, considered it extremely important to start a CoE for addressing research in the domain. Prof. Balram pointed out the relevance of a CoE in Biodiversity to Kerala. In response to Prof. Valiathan's discussion of Ayurvedic research, Prof. Gagandeep Kang highlighted the relevance of modern regulatory health science to complement it.

Prof. Balaram felt rupees thirty crores, proposed for a CoE to start with, is not a big amount and he pointed out the difficulty in getting apt leadership that garners resources national as well as international. Reacting the crucial problem common to any CoE, and taking the scarcity of leadership into account on the one side and the ambitious project of starting thirty centres on the other Prof. Satyajit Mayor suggested going for only a few as the pilot ones. Prof. Patnaik urged to

be clear about the budget over a period to meet the recurring expenditure. Everybody felt it feasible to start with five or six CoEs.

Prof. Jayakrishnan reviewing the memorandum of association suggested that there should be no restriction on securing resources from agencies abroad too. Prof. Ajayaghosh regretted about the low standard of the universities in the State and hoped that there should be at least one with a centre showing excellence to the world. In his opinion universities should be given a face-lift to develop through CoEs.

Prof. P.P. Divakaran was not audible, but he shared his thoughts. He wished to add a word of caution about how quickly healthy institutions with autonomy could be brought to their knees through bureaucratic control as exemplified by institutions under the DAE. In his opinion what the concept note aspires is to create a prototype of the enormously successful Max-Planck Society, Govt.sponsored but a fully independent huge network of research centres in a wide range of sciences. He thinks it would be a great help if the Committee could advise criteria for setting up a CoE. According to him it is easy to transform the Kerala School of Mathematics, for it has a structure, some staff and a nice campus; and Maths grows costing little. He shares the skepticism of others about how difficult it is to get really good and active people to take charge of fledgeling institutions of uncertain future.

Recommendations to the Government

1. Recommended to advise the Government to take steps for the transformation of the International Research Institute in Ayurveda with a big medicinal herbal park and a museum of manuscripts, at its infancy; into a Centre of Excellence.
2. Recommended to advise the Government to take steps for the transformation of the Kerala School of Mathematics into a Centre of Excellence.

Recommendations to the Higher Education Council

Recommended to the Higher Education Council to obtain a DPR and require from the agency concerned to prepare a presentation before the Advisory Committee in the case of the following proposals:

1. The centre for Neuroscience, Cochin University of Science and Technology to prepare a DPR and a presentation.
2. The Department of Wildlife Studies of Kerala Veterinary and Animal Science University, Wayanad; to reorient the proposal as 'Centre for One Health: Western Ghats Biodiversity, Wildlife Human Interface, and Zoonotic Diseases'; and prepare a DPR and a presentation comprising issues such as biodiversity, human wildlife interface, and zoonotic diseases in One Health perspective.
3. The International Inter-university Centre of Nano Science and Nano Technology in the Campus of Mahatma Gandhi University, Kottayam; to prepare a DPR and a presentation.
4. The Thanu Padmanabhan Centre of Astronomy and Astrophysics proposed by the University of Kerala to prepare DPR and a presentation.

Thiruvananthapuram, 26 Feb. 2022.

Prof. Rajan Gurukkal, VC, KSHEC

Item No.8 - Reporting - E- Journal Consortium – Technical Committee meeting.

Reported the Minutes of the Technical Committee meeting for e-journal consortium.

Dated 11.03.2022

Minutes of the meeting of the Technical Committee *for the* Formation of e-Journal Consortium in the State of Kerala Mode: Online Meeting via Google Meet Date: March 11, 2022 11.a.m.

Members Present

| | | |
|-----------------------|---|--|
| Dr. Rajan Varughese | : | Member Secretary, KSHEC |
| Smt. Vanaja P.S. | : | Registrar, KSHEC |
| Smt. Ajitha K | : | Finance Officer, KSHEC |
| Smt. Deepika Lakshman | : | Documentation Officer, KSHEC |
| Dr. Gopakumar V. | : | Librarian, Kerala Digital University of Kerala |
| Smt. Mini G. Pillai | : | University Librarian (i/c), MG University |
| Dr. Veerankutty C | : | University Librarian (i/c), CUSAT |
| Dr. Priya TK | : | Assistant Librarian, Kannur University |
| Dr. Anil R Nair | : | Associate Professor, NUALS |
| Dr. A. Vijayakumar | : | Deputy Librarian, SSUS |
| Dr. Susan Chandapilla | : | SSUS |
| Dr. Abdul Azzez T. A. | : | University Librarian (i/c), University of Calicut |
| Dr. Asha B | : | University Librarian (i/c), University of Kerala |
| Dr.P.K Suresh Kumar | : | Assistant Librarian (Selection Grade). |
| Dr. Mohanlal E.K. | : | Assistant Librarian Head, Kerala Veterinary and Animal Sciences University |
| Sri. Sreekumaran S. | : | Librarian, Kerala Agricultural University |

The meeting discussed the various issues pertaining to the formation of the e journal consortium and the proposal submitted by Elsevier/GIST of Science Direct, Scopus and Knimbus and other e-resources requested by the universities to be included in the consortium. Science Direct and Scopus are the major e-resources, followed by Collections of SAGE that are requested by the Universities.

The following decisions were taken.

1. The subscription rates of E-Journal/e-resources should not exceed the eSS rates (e-Shodh Sindhu rates).
2. Negotiations should be initiated with the publishers including access to the back issues of at least 10-15 years.
3. For payment, Bank rates to be taken into consideration instead of GOC rates and GST rates are to be excluded as per rules applicable.
4. The non science category of e resources should also be included in the list of items.
5. Subject collections of Science Direct are to be distributed according to the requirements of the Universities to facilitate Document Delivery of articles.
6. In the case of Scopus Data Base, access to essential modules for the evaluation of Scholarly productivity to be made available.

Science Direct and Scopus Proposal- (March 7, 2022) - Quoted Price details

| Science Direct (journals) | | | | Scopus (Database) | | | Combined |
|---|-------|------------------------|--|--|-------------------|--|------------------------------|
| Net Price for 14 utys and KSHEC in USD | GST % | Publisher Price in USD | Publisher Price in Rupees (GOC @USD 78.80) | Net Price for 14 utys and KSHEC in USD | GST 18 % | Publisher Price in Rupees (GOC @USD 78.80) | Science Direct in Rs. |
| | | | | | GST Amount in USD | | 85941644 |
| 1090630 | 0 | 1090630 | 85941644.00 | 176504 | USD 130171 | 16412047.94 | Scopus in Rs. 16412047.94 |
| Eight crores fifty nine lakhs forty one thousand six hundred forty four | | | | One crore sixty four lakhs twelve thousand and forty seven | | | 102353692 |

Combined Price: Ten crores twenty three lakhs fifty three thousand six hundred ninety two.

Knimbus Proposal 21st March 2022 -Quoted Price details

| Subscription | No. of Institutions | Price in INR | Price after Discount (approx 40%) | GST 18% | Quoted Price in INR |
|--------------|---------------------|--------------|-----------------------------------|---------|---------------------|
| 1 year | 15 | 5775000 | 2275000 | 630000 | 4130000 |

Item No.9 - Reporting – Chief Minister’s NAVA Kerala Post Doctoral Fellowship.

Reported the details of the *Chief Minister’s NAVA Kerala* Post Doctoral Fellowship

a. Funds for Chief Minister’s NAVA Kerala Post Doctoral Fellowship (PDF)

Chief Minister’s Navakerala Post-Doctoral Fellowships ranging from 50,000/- to 1,00,000/-per month for a period of two years was announced in the Budget for 2021-22. This Scheme has been designed to further the development plans of the state by promoting Research in domains of Eco diversity, Agriculture, Digital Technology, Genetics, Climate Change and the indigenous culture of Kerala.

1. Details of Expenditure of Navakerala PDF (2021-22 and 2022-23)

| (Expenditure for 150 Fellowships) | Total Expenditure (Maximum) (In Rs.) | |
|---|--------------------------------------|-----------------|
| | 2021-22 | 2022-23 |
| Monthly fellowship Rs. 1,00,000/person/ Month | 4.5 crores (Maximum) | Rs. 18 Crores * |

| | | |
|--|-------------|--------------|
| Contingency amount of Rs. 50,000 each for 150 scholars within two-year period of fellowship (set up laboratory and other facilities) | 75 Lakhs | 75 Lakhs |
| Total Expenditure | 5.25 Crores | 18.75 Crores |

*For 2022-23 the total expenditure may come up to Rs. 36.75 Crores if 150 new Fellowships are also given.

2. **The above funds may be made available to the KSHEC either under the Head of Account of the Kerala State Higher Education Council (2202-03-103-56 (Plan)) or under a separate Head of Account by name “Chief Minister’s NAVA Kerala Post Doctoral Fellowship (CMNKPDF)” fund to the KSHEC.**

3. KSHEC will make necessary arrangement for the disbursement of the Fellowship amount directly to the bank account of the awardees based on the Notification/ Guidelines issued in this regard.

a. Fellowship amount will be granted based on the progress of the project work

b. Procedure for submission of Statement of Expenditure and Utilization Certificate:

First year – within three months of completion of project period. Second year, within 6 months. The PD Fellows should submit three copies of the Annual Progress Report and Final Technical Report along with the soft copies within the above mentioned duration.

c. Periodic Review of the Projects:

Review and monitoring of the progress of the project will be done by the selection committee/subject committee formed for the purpose.

d. Final Technical Report Evaluation:

The Final Technical Report (FTR) submitted within 6 months after completion of the project shall be evaluated by the selection committee.

4. **Short-listing of eligible proposals is in Progress and completion of selection process through Interview & project presentation is expected to be completed by March 2022.**

b. Screening cum Interview Committees

| Sl. No. | Subject | Panellists |
|---------|---------------------|--|
| 1 | Life Science | <p>Chairperson: Prof. H.A. Ranganathan</p> <p>Dr Prathibha R Centre for Human Genetics, Electronic city, Bengaluru</p> <p>Dr. H.P.PUTTARAJU UGC-BSR Faculty Fellow, Dept. of Life science, Bangalore University, Bengaluru-560056</p> <p>Dr. V. R. Devaraj Dept. of Biochemistry, Bengaluru City University, Central College Campus, Bengaluru-560001</p> |

| | | |
|---|---|--|
| | | <p>Dr. K A Raveesha Professor and Head, School of Life Sciences, Dean Faculty of Life Sciences , JSS Academy of Higher Education and Research, Sri Shivarthreeswara Nagara, Mysuru-570015</p> <p>Dr.Srinivas C Professor & Chairman, Department of Microbiology& Biotechnology , Bangalore University , Jnana Bharathi Campus , Bangalore-560 056</p> |
| 2 | Chemical Science | <p>Chairperson: Prof.Suresh Das Former Executive Vice President, Kerala State Council For Science Technology and Environment</p> <p>Prof. K. George Thomas Dean (Faculty Affairs) IISER-Thiruvananthapuram</p> <p>Prof. Edamana Prasad, Professor, KCL 105, Department of Chemistry, Indian Institute of Technology Madras, Chennai - 600036</p> |
| 3 | Material Science | <p>Chairperson: Prof. Sharath Ananthamurthy Professor, University of Hyderabad</p> <p>Prof. M. K. Rabinal Dept. of Physics, Karnataka University, Dhanwad, Dharwad- 580003</p> <p>Prof. Venkataiah. G School of Physics, University of Hyderabad</p> |
| 4 | Historical Studies, Political Science, Humanities & Liberal Arts | <p>Chairperson: Prof. Kesavan Veluthat (rtd. Delhi University)</p> <p>Prof. Rajan Gurukkal Vice Chairman, KSHEC</p> <p>Prof. M.V. Narayanan Vice Chancellor, Sree Sankaracharya University of Sanskrit, Kalady</p> <p>Prof. K. S. Ravikumar Former Pro Vice Chancellor, Sree Sankaracharya University of Sanskrit, Kalady</p> |
| 5 | Economic Studies | <p>Chairman Prof. C.P. Chandrasekhar Centre/School/Special Centre, Centre for Economic Studies and Planning, School of Social Sciences, JNU</p> <p>Dr. D. Narayana (Honorary Fellow , Gulati Institute of Finance and Taxation</p> <p>Anjan Kumar Chakrabarti Professor, Marxian Economics, Development Economics, University of Calcutta</p> |
| 6 | Management and Commerce | <p>Chairman : Dr. Saji Gopinath</p> |

| | | |
|----|--|--|
| | | Hon'ble Vice Chancellor, Digital University |
| | | Dr. Abhilash Nair Professor of Finance, Indian Institute of Management Kozhikode |
| | | Dr. M. Ayyappan Former CMD Hindustan Life Care Limited and Visiting Professor, School of management, CET Trivandrum |
| 7 | Agriculture and Ecological Studies | Chairperson: Prof. V.S. Vijayan Honorary, Chairman at Salim Ali Foundation |
| | | Dr. Jayakumar, Dept. of Ecology and Environmental Science. Pondicherry University |
| | | Dr. Srikumar Chattopadhyay, Sr. Scientist, National Centre for Earth Science Studies |
| | | Dr. C. A. Jayaprakash, Principal Scientist, CTCRI |
| 8 | Climate Change and Geological Studies | Chairman Dr. C. P. Rajendran |
| | | Thrivikramji.K.P. (Retd.) <i>Professor</i> of Geology, University of Kerala Karuiavattom Campus 695 581, India |
| | | Prof. Sajeew Krishnan (Centre for Earth Science IISc) |
| 9 | Medical Science | Chair person: Prof. Dr. Valiathan (National Research Professor, Manipal Academy of Higher Education |
| | | Dr. B Ekbal (Former Vice Chancellor, University of Kerala & Member, State Planning Board) |
| | | Dr. A. Jayakrishnan (rtd. Vice Chancellor) |
| 10 | Digital Technologies and Engineering | Chairperson: Dr. Gangan Prathap, Acting Director, National Institute for Interdisciplinary Science and Technology |
| | | Dr. Saji Gopinath Hon. Vice Chairman, Kerala University of Digital Sciences, Innovation and Technology |
| | | Dr. RVG Menon Former Principal, Govt. Engineering College, Kannur |

Item No.10 - Reporting - .Chancellor's Award 2021.

Reported

Chancellor's Award – 2021

The following Universities submitted data for the Chancellor's Award 2021

1. University of Kerala
2. University of Calicut
3. Mahatma Gandhi University
4. Kannur University
5. Cochin University of Science and Technology
6. Kerala Agricultural University
7. Kerala University of Fisheries and Ocean Studies
8. Kerala Veterinary and Animal Sciences University
9. Kerala University of Health Sciences
10. Sree Sankaracharya University of Sanskrit

Item No.11 - Reporting - Expenditure for renovation and other activities of KSHEC.

Approved the expenditure of Rs. 50,00,105/- for the activities of the Education Commissions and Rs. 6,49,150/- for renovation related activities of the KSHEC.

Additional Agenda

A1. Expert Committee to bring in management professionalism in the preparation of DPR for IDPs by the universities.

Approved the constitution of the following two committees.

a. Constitution of **DPR Consultation Committee**

On the one hand it is becoming increasingly important that universities have to bring in insights from management science when they prepare institutional development plans. On

| Coordination of three Commissions appointed by Government of Kerala | |
|---|--------------------------|
| Item | Expenditure (Rs.) |
| Advance | 1,00,000/- |
| Travel | 4,19,344/- |
| Sitting fee & Honorarium | 40,24,028/- |
| Food & Accommodation | 3,92,464/- |
| Stationery , books, binding charge | 57,762/- |
| Printing & Photocopy | 2,297/- |
| Miscellaneous | 4,210/- |
| Total | 50,00,105/- |
| Expenditure for the renovation of rooms in first floor of Council building newly allotted to KSHEC | |
| Item | Expenditure (Rs.) |
| Maintenance Work | 1,51,700/- |
| Cubicle formation | 63,000/- |
| Deposit to KSSTM | 2,75,000/- |
| Air Conditioner | 1,59,450/- |
| Total | 6,49,150/- |

the other hand, it is widely prevalent today that development plan documents are prepared as academic notes and budget estimates without the expected competence and skill. How to

make this professional act is what KSHEC sees as a question to be addressed with priority. Therefore, an Advisory Committee has been constituted as follows:

1. Mr. Chandrasekhar Balagopal (MD Terumopenpol, India), Chairman
2. Prof. Alex James Pappachan (Professor at Digital University), Chairman
2. Dr. D. Narayana, Gulati Institute
4. Mr. Sahadevan, NCBS, Bangalore
5. Mr. K. Kunhi Krishnan, Calicut (rtd from CEDTI)

b. Constitution of **Knowledge Translation Committee**

Translation of knowledge into practices, products and property is an area where the Council has to make changes happen in higher education institutions immediately, for there is a relatively huge sum set apart in the current State Budget for Knowledge Translation (KT).

Universities are expected to claim their share through Knowledge Translation Projects (KTP), the preparation of which requires familiarity in theories, models, and frameworks (TMFs) for successfully incorporating evidence into the designing of practices. This requires competency to describe each KTP in terms of TMFs with particulars such as the name, key components, use context, levels of use, targeted user group, and outcomes. Likewise it demands the skill to compare, contrast, and distinguish the unique from the general in the case of every KTP and TMF, categorised into theoretical approaches (classic, implementation oriented, and evaluative), process models, and frameworks (determinant).

We need an expert group to help the Council produce a user-friendly Handbook as a systematic compilation of existing full-spectrum KTP TMFs with their categorisation into approaches, and comparison, so as to enable the KTP designers to select out of it what they need for designing their KTPs.

1. Dr. Saji Gopinathan, (Vice Chancellor, Digital University), Chairman
2. Dr. Sabu Thomas (Vice Chancellor, Mahatma Gandhi University)
3. Mr. Chandrasekhar Balagopal (MD Terumopenpol, India)
4. Dr. Gopinath Ravindran (Vice Chancellor, Kannur University)
5. Dr. Madhusoodhanan (Vice Chancellor, CUSAT)
6. Dr. Suresh Das (former Vice Chairman, KSCSTE)
7. Dr. Gangan Pratap (Former Vice Chancellor, CUSAT)
8. Dr. Saty Chakroborty (IIT Chennai)
9. Dr. N.K. Ravi Varma (NIT Calicut)

A2. Medical Reimbursement of Prof. Dr. Rajan Gurukkal P M, Vice Chairman

Approved the Medical Reimbursement of Rs.89,375/- (Rupees Eighty Nine Thousand Three Hundred and Seventy Five only) of Prof. Dr. Rajan Gurukkal P M, Vice Chairman of The Kerala State Higher Education Council for the treatment at Dr. Sreekanth Eye Care & Research Centre, Kattooli, Calicut from 14/12/2021 to 15/01/2022 for Cataract Surgery.

The minutes were read and confirmed.

The Executive Body meeting came to an end by 12.30 pm.



Vice Chairman



Member Secretary