<u>Report of the Academic Administrative Audit Committee of Krishna Institute</u> <u>of Medical Sciences , Deemed to be University.</u>

The Academic Administrative Audit Committee constituted by the Krishna Institute of Medical Sciences, Deemed to be University consisted of the following Experts:

Prof.S. P. Thyagarajan, (Chairman) Chancellor, AvinashilingamInstitute for Home Science and Higher Education for Women (Deemed to be University),

Dr. R. M. Borle, Vice Chancellor, DattaMegheInstitute of Medical Sciences (Deemed to be University),

PROF.(DR.) SatheeshKumar Bhandary. Vice-Chancellor, Nitte(Deemed to be University)

Dr. UmanjaliDamke, Professor, Department of Physiotherapy, Govt. Medical College, Nagpur

Dr. SeemaSingh, Principal, Smt. RadhikabaiMegheMemorial College of Nursing, SawangiMeghe, Wardha

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INTRODUCTION:

•KrishnaInstituteofMedicalSciences(KIMS)was established by Philanthropist, Social reformer and Visionary, Late Shri.Jaywantrao Bhosale in1984.

•Theinstitute started with the conduct of the MBBS course and postgraduate courses were added in various specialties with the approval of the Medical Council of India from time to time. Krishna Hospital&MedicalResearchCentre(KH&MRC) served the rural population to meet the necessary needs of their healthcare.

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.Considering the rapid developments in healthsciences the institution applied to the Government of India in 2004 for conferment of Deemed University status so as to serve the cause of healthsciences education further. The Government of India on the recommendation of the UGC, declared Krishna Institute of Medical Sciences as Deemed University vide its notification, numberF.9-15/2001-U.3, of the Ministry of Human Resource Development, Government of India, dated 24th May 2005. Later on other heathsciences colleges were added/started.

There are SIX Constituent Colleges.(1)Krishna Institute of Medical Sciences (2)Krishna college of Physiotherapy.(3)Krishna Institute of Nursing Sciences.(4)Krishna Institute of Pharmacy.(5)Krishna Institute of Allied Sciences and (6)School of Dental Sciences

Criteria 1:

- Faculty participation in curriculum design and development is satisfactory. Programme Outcomes, course outcomes and programme specific outcomes are communicated to students and teachers effectively.
- Credit Based system and electives have been introduced in all the programmes where provision was made by the Regulatory Bodies. The institution offers a large number of Value added courses. Although the student participation in value added courses at 49% is commendable, the institution can focus its attention towards achieving increased participation leading to enhanced benefits to students.
- The university can make a focused effort towards increasing interdisciplinary content in the current courses.

- Attainment of curricular outcomes are being analysed in a structured manner using formative and summative assessments. The institution needs to demonstrate that the findings of the analysis lead to actual concrete changes in curriculum design and delivery thereby leading to improvement in attainment levels leading to anticipated learning outcomes as evidenced through assessment methods.
- "Professional Ethics and Human Values" is implemented across all programs as a cross cutting theme. Environmental Studies are embedded in the curriculum in most of the programmes. University has also constituted different cells which are responsible for conducting various programs, seminars, guest lectures, competitions for sensitising the students about cross cutting issues.
- Structured feedback on curriculum is being obtained from various stake holders. Action Taken on this needs to be better documented.

Criteria 2:

- KIMSDU has a healthy demand ratio of more than 10 for the programs offered by it which reflects on the high reputation of institution amongst prospective students. However, the percentage of students from other states and countries is relatively low for a deemed to be university. The university can make conscious efforts towards improving public perception outside the home state thereby improving student diversity. Common Policies and University Guidelines are being followed in admission procedures.
- Teaching, learning activities are planned in advance and academic calendar are drawn up. The university employs a plethora of student centric learning methods to improve quality of teaching imparted at the institution.
- The institution employs a wide variety of ICT tools in the teaching learning process and also makes efforts to train its teachers in effectively utilizing such tools. In future the university can focus its attention towards developing a comprehensive learning management system with access to online learning modules.

- Slow learners and advanced learners are being identified through faculty interactions with students during lectures, practical's etc. The impact of these interventions need to recorded after novel and innovative methods of assessment. Transformation methods of slow learners to advanced learners need to be highlighted as possible best practices.
- The university has introduced OSCE & OSPE methods for continuous internal assessment. Greater frequency and variety of internal tests will make the system more robust. It is commendable that the university examination results are announced within a short duration of 8 days. Provision for retotalling or revaluation and access to answer script will make the examination system more transparent and robust.
- The institution has listed Programme outcomes, course outcomes and programme specific outcomes in its website. The attainment of the learning outcomes is measured through formative and summative assessments.

Criteria –III: Research, Consultancy and Innovation ecosystem

- Directorate of research has been created by the Deemed to be university in the year 2008, having 4 full time research officers which through its subunits, undertake activities for fostering research culture, capacity building, and provides research guidance.
- The deemed to be university provides adequate seed money and awards/incentives to the researchers to promote research.
- Posts of JRF and research associates are sub-optimal at an university level; however their number is showing steady increase over past 3 years.
- Basic research facilities are provided by the deemed to be university, however further augmentation and strengthening of the research facilities is needed.
- Intramural grants are provided by the deemed to be university for various research projects and it is also showing growing trend in last 3 years and during the last year Rs 76.92 Lac were allocated.
- The quantum of extramurally funded projects and the grants mobilised are low .There is a need to augment the funded research projects and capacity building initiatives are required to be undertaken in project writing.
- The consultancies are also low which need to be augmented
- The research funding made available by the deemed to be university is substantial in terms of percentage of budgetary provisions, minus the salary outflow.
- The deemed to be university has an IPR policy in place and good number of copyrights and patents have been registered, published and granted in last 3 years, with substantial increase in the last year. In seven instances the IPR generated by the researchers have been availed

for technology transfer however its outcome in terms of the revenue generated is not depicted to justify the commercial success of the inventions patented.

- The publications brought out by the faculty in last 3 years have grown in number yearly. However the peak numbers of the publications (531) have been done in the year 2020. The consistent efforts are required to maintain the benchmark with increasing trend each year. The publications are in Scopus, Web of Science, Pub Med and UGC listed journals. The average citation index is 8.61 and the institutional h Index is 17.5. There is further scope of qualitative analysis of the publications which will work as self-appraisal in terms of the quality of publications, improved faculty: publication ratio and thereby cogent steps can be undertaken for quality augmentation.
- The annual targeting should be made by each functioning unit in terms of the research project target, publication target and more emphasis should be laid on RCTs, Experimental research, systematic reviews and meta-analysis to augment the quality of evidence and publications. High impact journals should be targeted for bringing out quality publications which will come only with good planning and implementation.

Criteria- IV: Infrastructure and Learning Resources

- The campus is located on Pune -Bangalore highway and is spread over sprawling 55 acres of land. The campus is well maintained and clean. Machines are made available for cleaning. Plenty of work on landscaping and greenery has been done and the Deemed to be university has been awarded under the swaccha campus by the ministry of Education (the then ministry of HRD) Govt of India.
- The academic infrastructure is State of the Art with ICT enabled class rooms, well-furnished lecture halls and labs, and museums in Pathology, Anatomy & FMT with good number of specimen & charts.
- A well-equipped skill lab with different modules for skill training of the students on simulations is available. However the lab can be further augmented and used more meaningfully for imparting the skill training especially in view of the prevailing Covid 19 scenario and overall shortage of clinical material.
- Both outpatients and Inpatients clinical materials for students teaching and training are suboptimal and the same need to be improved.
- Hospital management system and medical transcription facilities are not evidently demonstrated.
- The Learning Management System and the e-Resource Centre are in their infantile stage
- Basic amenities like hostels, residential quarters for the staff, facilities for indoor and outdoor sports, semi-Olympic sized swimming pool, amphi theatre, auditorium etc. are provided and well maintained.
- Projection facility from the operation theatres for the students is available.
- The budget allocation for maintenance of the infrastructure is shown as -----, after deducting the expenses on salary. It is desirable that the percentage of expenditure on infrastructure be depicted on the entire budget.
- A good system for biomedical waste management such as incinerator, STP and ETP plants for processing liquid waste are in place and well managed.

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- The Deemed to be university has taken many good green initiatives such as use of nonconventional/ renewable energy by installing solar electrical panels on the terrace of all buildings. However impact of the same in terms of financial savings should be depicted.
- Use of electric golf carts in the campus, solar powered street lights are also installed in the campus. Energy conservation initiatives like used of LED lights, sensors for Air conditions are in place.
- For the water conservation water recycling, rain water harvesting has also been done.
- Separate departments for civil, electrical and biomedical engineering along with workshops are in place. Apart from the AMC/CMC for equipment the in house team of biomedical engineers undertakes the minor repairs and maintenance work to ensure that the equipment is working properly.

Criterion V: Student support and progression:

- 18.26 % students have been benefited by scholarships /free-ships.
- 79.65 % students have been benefited by guidance for competitive examinations and career advancement.
- Internationalstudentcellistodealwithadmission,guidanceandallaspectsoftheiradmin istrationpriortotheiradmission,afteradmission,duringtheirstayatKIMSDUandafterp assingoutfromKIMSDU.ThecellisinstrumentalassinglewindowservicetoInternational StudentsCommunityonthecampus.
- 57.06% of Students Inlast three years have been qualified instate/national level examinations
- Thereis100%placement/selfemployment/highereducationinMedical,Nursing&Dental School,otherconstituentcolleges
- 27.85% of the graduates in the preceding academic year, had progression to higher educat ion.
- 57.06%Studentsinlastthreeyearshavebeenqualifiedinstate/nationallevelexaminatio ns.

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• 27.85% of the graduates in the preceding academic year, had progression to higher education.

Criterion VI: Governance, Leadership and management

- The university has constituted various statutory bodies in accordance with the UGC regulations and conditions incorporated in the MOA
- Apart from statutory bodies/ committees various non-statutory bodies have been constituted as standing mechanism for better administrative dispensations and control.
- A BOM approved 'Vision Document', which is desirable for a progressive university has not been presented to the AAA Committee.
- The stake holders are appropriately involved in decision making and the concept of Participative decision making and collective wisdom are practiced.
- Various autonomous cells are constituted such as Attendance Cell, Research Cell, IPR Cell, Ph.D. Cell, Students Guidance Clinic Cell, Women's Empowerment Cell, University Examination Cell, Placement Cell, Students Welfare Cell, International Students Cell, Value Education Cell, Website Cell, Education Technology Cell, and Placement Cell. This was done with the aim to relieve the pressure of academic responsibilities of the Deans and decentralize the administration.
- IQAC is constituted with a whole time director which is responsible for various quality sustenance, quality consolidation and quality augmentation initiatives in different areas of operations of the university.
- Establishment of Standing Committee of Deans to monitor academic concerns has been constituted.
- Various welfare measures are taken by the leadership for the students and staff which comprises of free ship, scholarships, research incentive special allowance. It reflects healthy faculty and staff stability index.
- Presentation of Developmental Budget is done in IQAC, which is an innovative practice and after inputs from the IQAC it is placed before the Finance & accounts committee.
- The University has policies and practices that have evolved in the matter of planning human resources, recruitment, training, performance appraisal, financial management and the overall role of leadership.
- Efforts are made to upgrade the professional competence of the staff. There are structured mechanisms evolved for regular performance appraisal of staff.

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Criterion- VII:

- The University's women Empowerment cell functions are satisfactory and efforts towards environment consciousness and sustainability are good.
- The University has good rain water harvesting and water conservation measures.
- The campus is disabled friendly although accessibility of wheelchairs to all the facilities needs to be evaluated and documented.
- The University has multicultural and multilingual students and faculty from different parts of the country.
- Human Values and Professional ethics are inbuilt in the various curriculum of the University and incorporated within its regular functioning. The UNESCO Bioethics chair has been created in the university with a bioethics professor thereto.
- The structured measures for Green Audit and Energy Audit have been undertaken.
- The University celebrates National and International commemorative days.

RECOMMENDATIONS:

- 1. Collaborative research projects, funded projects need to be Promoted with due support and capacity building
- 2. Research inculcation in learners' right from inception should be undertaken in a planned manner and research orientation and early research exposure should be ensured.
- 3. Per faculty publications are claimed as 3.85, which is very good, however, it should be ensured that duplication in counting the publications in different data bases should be avoided and cross verified.
- 4. High end and sophisticated research equipment can be procured either by institutional funding but it is desirable that if funded projects are sanctioned by the external funding agencies, the high end equipment can be procured through the funding accruable through funded projects.
- 5. Collaboration of reputed research labs can be worked out to avail the research facilities present in these labs in the interim period to ensure that the projects are not held up for want of facilities.
- 6. The revenue generated through the transfer of technology can also be availed for maintaining the IPR and enhancing research facilities.
- 7. The external funding and Grants depicted should be from reputed National/ International funding agencies only.
- 8. The institution should have inventory of research themes which is based on potential areas of research and relevant to the local, regional and National needs. The thrust areas of the funding agencies should also be taken into account while writing the proposals to various funding agencies.

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- 9. Calibration of equipment is required to be done periodically and calibration exercise should be depicted.
- 10. Equipment down time index should be depicted in the report to depict measurable quality of maintenance services.
- 11. Equipment utilization Index for at least major equipment should be worked out which can be a good indicator of optimum utilization.
- 12. The skill lab can be further augmented by adding certain high fidelity, virtual mannequins for skill training of the students especially in view of the prevailing COVI 19 scenario and shortage of clinical material almost across the country. Dental skill labs can also be created for training of dental student can also be created.
- 13. Budgetary allocation for library may be augmented and depicted in terms of percentage of total budget. Additional efforts like membership to various libraries and subscription to data bases are enhanced as cogent steps towards making virtual library.
- 14. Budget depicted for maintenance of infrastructure is depicted as 62.63% of total expenditure minus salary, which can also be depicted as against overall budgetary provision.
- 15. The management should make alternative plans and put in place fiscal reforms so as to ensure that during the Challenging COVID times the gap between receipts and outflow is minimized. It can be done with better financial planning, cost saving, avoidance of avoidable expenditure, rescheduling of the developmental activities as per the priorities, rational spending and necessary measures to increase revenue.
- 16. The scope of Super speciality services in the hospital can be broadened so that the quality of services and hospital revenue can be increased and at the same time the society is befitted and the post graduate students get good exposure to the state of the art technology and services.
- 17. Courses like transfusion medicine, laboratory medicine, and physical rehabilitation can be initiated to improve the quality of hospital services.
- 18. More innovative educational programs line fellowship courses, degree and diploma courses in the allied health sciences, focussing on skill based, employment oriented courses can be launched.
- 19. The institution must have robust perspective developmental plan (VISION DOCUMENT) to ensure higher ratings in forthcoming NAAC assessment & NIRF rankings. The targets to be set and regular periodic review should be done to achieve the set targets in time bound manner.
- 20. Measures should be taken to enhance visibility of the institution at National & International level to enhance the stake holders' perception.
- 21. Rather than routine feedback from the students, student satisfaction index be assessed through a structured mechanism.
- 22. The strengths of all programs, initiatives, interventions should be ascertained on the basis of outcomes which can be an appropriate indicator of quality.
- 23. In view of the forthcoming National educational Policy-2020 being implemented by the Government of India, outcome-based multi-disciplinary education with credit-transfer facility and participation in the Academic Bank of Credits system must be taken up as a part of the Institutional Development Plan(IDP)

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Concluding Remarks

Krishna Institute of Medical Sciences (Karad)-Deemed to be university has been contributing to the Indian Higher Education in general and Medical and Allied Health Sciences Education in particular in a significant manner in the last FIVE years. The mentoring leadership as advisor and others have been a great asset to the Deemed to be university. The AAA Committee records the meticulous way by which it facilitated the virtual assessment process in a commendable manner. The Committee recommends that the report provide and recommendations proposed in the report are the consensus one of all members of the AAA committee. The AAA Committee is optimistic that the recommendations are taken up for implementation by KIMS(DU) enthusiastically and in a time-bound manner in order to enhance the overall quality internalisation and to facilitate innovations.

The chairman and members of the AAA Committee record their sincere thanks to the Vice-Chancellor, Advisor to Chancellor and other management for the invitation and excellent arrangements.

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Action Taken Report of the Academic and Administrative Audit (External) for the Academic Session 2020-21 conducted during the Month of February 2021

Sr. No.	Recommendation	Action Taken Report
1	Collaborative research projects, funded projects need to be Promoted with due support and capacity building.	and been resolved that Grant writing
2	Research inculcation in learners' right from inception should be undertaken in a planned manner and research orientation and early research exposure should be ensured.	Short term studentship programme has been strengthened. A planned Research orientation for fresh batch was undertaken. Further handholding activities for students to develop a research proposal, to implement it and to publish manuscript in indexed journal have been planned. The process will be followed for every new batch including IPR activities.
L.	Per faculty publications are claimed as 3.85, which is very good, however, it should be ensured that duplication in counting the publications in different data bases should be avoided and cross verified.	The data was verified and no case of duplication was noted. A system of maintaining a single data base for this purpose has been established. This database is being updated in real time, incorporating data from different sources.

REGISTRAR Krishna Institute of Medical Sciences "Deemed To Be University", Karad



KRISHNA INSTITUTE OF MEDICAL SCIENCES DEEMED TO BE UNIVERSITY

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Sr. No.	Recommendation	Action Taken Report
4	Recommendation High end and sophisticated research equipment can be procured either by institutional funding but it is desirable that if funded projects are sanctioned by the external funding agencies, the high end equipment can be procured through the funding accruable through funded projects.	(about 30 Crore) has been made by the KIMSDU in the developmental budget for the year 2022-23. Establishment of incubation centre and CRICK in the campus of Pune University shall be undertaken. The investigators are advised to include high end equipment relevant to their studies in the grant applications to be submitted to the
5	Collaboration of reputed research labs can be worked out to avail the research facilities present in these labs in the interim period to ensure that the projects are not held up for want of facilities.	external funding agencies. MOUs for Research collaborations have been established with reputed ICMR research labs such as National Institute of Virology, Pune and National AIDS Research Institute, Pune
	The revenue generated through the transfer of technology can also be availed for maintaining the IPR and enhancing research facilities.	As of now, two Technology transfers have been made and the revenue generated is being utilized for maintaining the IPR and enhancing research facilities.
	The external funding and Grants depicted should be from reputed National/ International funding agencies only.	Due care is being taken while applying and accepting external grants to restrict it to reputed National/ International funding agencies only.





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Sr. No.	Recommendation	Action Taken Report
8	The institution should have inventory of research themes which is based on potential	University have been identified and the
	areas of research and relevant to the local, regional and National needs. The thrust areas of the funding agencies should also be taken into account while writing the	investigators are advised to align their research proposal with them to the extent possible. They are further advised to consider thrust areas of the funding agencies while preparing
9	proposals to various funding agencies. Calibration of equipment is required to be done periodically and calibration exercise should be depicted.	grant applications. Calibration is done periodically and can be depicted.
10	Equipment down time index should be depicted in the report to depict measurable quality of maintenance services.	Equipment down time wider for major equipment's is done.
1	Equipment utilization Index for at least major equipment should be worked out which can be a good indicator of optimum utilization.	Equipment utilization is done for major equipment's and the record maintained in respective departments.
	The skill lab can be further augmented by adding certain high fidelity, virtual mannequins for skill training of the students especially in view of the prevailing COVI 19 scenario and shortage of clinical material almost across the country. Dental skill labs can also be created for training of dental student can also be created.	 Skill Lab augmented and upgraded. Central skill lab established for the benefit of students from all faculties. Dental Skill Labs envisaged in the near future.





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Sr. No.	Recommendation	Action Taken Report
13	Budgetary allocation for library may be augmented and depicted in terms of percentage of total budget. Additional efforts like membership to various libraries and subscription to data bases are enhanced as cogent steps towards making virtual library.	 Budgetary allocation augmented. Online databases have been increased.
14	The management should make alternative plans and put in place fiscal reforms so as to ensure that during the Challenging COVID times the gap between receipts and outflow is minimized. It can be done with better financial planning, cost saving, avoidance of avoidable expenditure, rescheduling of the developmental activities as per the priorities, rational spending and necessary measures to increase revenue.	Financial planning done to tide over the COVID pandemic crisis.
	The scope of Super speciality services in the hospital can be broadened so that the quality of services and hospital revenue can be increased and at the same time the society is befitted and the post graduate students get good exposure to the state of the art technology and services.	Superspeciality services broadened i.e. 1) Neurosciences 2) Transplant procedures.





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Sr. No.	Recommendation	Action Taken Report
16	Courses like transfusion medicine, laboratory medicine, and physical rehabilitation can be initiated to improve the quality of hospital services.	
17	More innovative educational programs like fellowship courses, degree and diploma courses in the allied health sciences, focussing on skill based, employment oriented courses can be launched.	with the responsibility.
18	The institution must have robust perspective developmental plan (VISION DOCUMENT) to ensure higher ratings in forthcoming NAAC assessment & NIRF rankings. The targets to be set and regular periodic review should be done to achieve the set targets in time bound manner.	Committee constituted for the same.
19	Measures should be taken to enhance visibility of the institution at National & International level to enhance the stake holders' perception.	 Director Collaboration Appointed. Full time Marketing Officer appointed.
20	Rather than routine feedback from the students, student satisfaction index be assessed through a structured mechanism.	The feedback committee has been appraised of the same and work on this would commence shortly.
	The strengths of all programs, initiatives, interventions should be ascertained on the basis of outcomes which can be an appropriate indicator of quality.	Outcome Analysis process initiated.





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Sr. No.	Recommendation	Action Taken Report
22	In view of the forthcoming National educational Policy-2020 being implemented by the Government of India, outcome-based multi-disciplinary education with credit- transfer facility and participation in the Academic Bank of Credits system must be taken up as a part of the Institutional Development Plan (IDP).	 Deans and Controller of Examinations entrusted with the responsibility. Credit transfer for courses outside apical council adopted.

REGISTRAR Krishna Institute of Medical Sciences "Deemed To Be University", Karad

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