
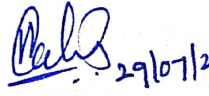
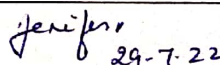


ACADEMIC AUDIT REPORT- External

Name of the Department :Mathematics						Date of Audit: 29-7-2022	
						Name of the Institution: SDM College of Engineering and Technology,Dharwad.	
AUDIT TEAM DETAILS							
Sl. No	Name	Affiliation	Designation	Mobile No.	Email Id	Role in Audit Team	Signature with date
1	Dr.U.P.Kulkarni	SDMCET,Dharwad	Professor	9448915301	Sdmcet.iqac@gmail.com	Chairperson -Internal	
2	Dr.P.G.Patil	KUD,Dharwad	Professor & Chairman	9448408215	pgpatil @kud.ac.in	External member	 29/07/22
3	Dr.Jenifer J.Karnel	SDMCET,Dharwad	Associate Professor	8884419523	hodmaths@sdmcet.ac.in	HoD,Mathematics	 29-7-22

Over all Observation/Remarks:

- The department has implemented several strategic plans suggested earlier.
- The department has also introduced weekly tutorial in UG mathematics.
- All faculties are actively involved in research activities such as research publications, attending conferences etc..
- Students are encouraged to develop interest in mathematics by conducting events as "G-Apti".

Sl. No	Audit Parameter	Observations and Suggestions
1	<p>Strategic Plan: How well the strategic plan or its equivalent any other development plan is executed with clear observable outcomes /evidences?</p>	<ul style="list-style-type: none"> ➤ Mathematical tool “Geogebra” was introduced at first year to visually understand the mathematical concepts.
2	<p>Mission-1: What level of contextual relevance is brought in the curriculum?</p>	<p><u>At UG level</u></p> <ul style="list-style-type: none"> ➤ I semester, Engineering Mathematics-I (21UMAC100),-Mathematical tool “Geogebra” was introduced as a self study component on Unit-I and Unit-II. Changed the number of contact hours for unit-I as 10 hrs. and unit-II as 12 hrs.MATLAB was replaced by Diagonalization of a square matrix of order two in self study. ➤ II semester, Engineering Mathematics-II (21UMAC200), Changed the number of contact hours for unit-I & unit-II as 11 hrs. resp.. ➤ III semester, Engineering Mathematics-III (18UMAC300), Made a change in order of the unit III and unit IV. Unit III -Statistical Methods, Unit IV-Probability Distributions. ➤ No changes were made in IV semester UG, Engineering Mathematics-IV (18UMAC300) & VI semester UG, Open Elective, Applied Mathematics (18UMOE675). <p><u>At PG level</u></p> <ul style="list-style-type: none"> ➤ No changes were made in the I semester PG syllabus of E&C (Applied Mathematics 20PMECC100), I semester PG syllabus of E&E (Applied Mathematics /20PMEEC100, I semester PG syllabus of Computer Science (Mathematical foundation of computer science/20PMCSC100) and I semester PG syllabus Mechanical engineering (Computational Methods in Engineering./20PMEAC100).

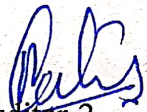
3	<p>Mission-2: What level of preparedness and implementation is seen in making teaching learning process effective on OBE principles?</p>	<ul style="list-style-type: none"> ➤ As suggested in previous audit , 1 tutorial class to be engaged per week to make teaching and learning process effective is in progress.
4	<p>Mission-3: What levels of establishment of research infrastructure, processes and research outcomes are seen?</p>	<ul style="list-style-type: none"> ➤ Library facilities with internet access of journals and books in mathematics. ➤ Out of 8 faculties 5 are with PhD's and 2 are pursuing . ➤ Faculties are involved in research activities ➤ Faculties have published 8 papers in international reputed journals in the year 2020-21. ➤ 11 students are pursuing their Ph.D degree in mathematics at the department research centre.

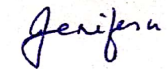
5	<p>Mission-4: What level of preparedness and implementation is seen in connecting Industry with class room?</p>	<ul style="list-style-type: none"> ➤ Students at third year opt for an industry oriented open elective course <i>Applied Mathematics (18UMOE675)</i> .
6	<p>Mission-5: What level of preparedness and implementation is seen in developing students' personality focusing on ethics and soft skills?</p>	<ul style="list-style-type: none"> ➤ Use of mathematical tool "Geogebra" at first year level to visualize the concepts of terms students study during the course which in turn will improve presentation and communication skills in Mathematics.
7	<p>Other noteworthy achievements? If any.. Faculty members/ Staff/Students</p>	<ul style="list-style-type: none"> ➤ Faculties have delivered weekly lectures (for two weeks) in Mathematics for 10th class students at the Govt. High School, Yerikoppa village, Dharwad. ➤ In association with Agasthya foundation under the banner "Gyana Setuve Karyagara" the Science departments gave training to 84 students of first year to develop experimental models of low cost on 12.3.2021 ➤ An invited talk by Dr. Shivaprasad , Director, Karnataka State Higher Education Academy, Dharwad on the occasion of National Science day on 27.2.2021. ➤ Conducted "G-Apti-2020" a competition for first year students in view of Science day celebration on 25.2.2021. ➤ Faculties attended webinars/Conferences/FDP's/workshops.

8	Suggestions	<ul style="list-style-type: none"> ➤ Encourage the faculty to apply for the projects to CSIR,DST,AICTE,SERB etc. ➤ A minor project can be offered to IV semester students. ➤ To create research environment in the department by conducting special lectures/workshops/seminar.
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Signature

Auditor-1


 Auditor-2
 P. G. Palit
 Dept of mathematics
 K. U. Dhanwad.


 Auditor-3

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30/7

Noted
 Advised to call Professor from IIT/IIT/NIT
 for external academic audit
 @ggnmitu
 30/7/22