# AREA V

## RESEARCH

**PARAMETERS**

A. Priorities and Relevance

B. Funding and Other Resources

C. Implementation, Monitoring, Evaluation and Utilization of Research Results/Outputs

D. Publication and Dissemination

Program : Bachelor of Science in Applied Mathematics

Level : I

SUC : University of Southern Mindanao

Campus : Kabacan

Date of Actual Survey : _____

## AREA V: RESEARCH

Research is an avenue through which new knowledge is discovered, applied or verified and through which appropriate technologies are generated. Thus, it is a basic requirement for an educational institution to have a firmly established research and development program. Its thrusts and priorities should be congruent with those identified in the development plans of regional and national R and D-oriented agencies such as NEDA, DOST, CHED, etc.

The institutional leadership in research should be proactive and developmental in orientation. It must provide adequate and sustained budget allocation annually for the Academic Unit. Adequate physical facilities, laboratory equipment and supplies for research should be provided. The Academic Unit has to maintain strong research linkages with various R and D agencies locally and internationally.

### A. Priorities and Relevance

The Institution shall conceptualize and implement identified researches (preferably multidisciplinary and collaborative in nature) in consonance with institutional, regional and national priorities. The Institution's research should be consistent with its priorities and those emphasized in the Agenda of the DOST, CHED, NEDA, etc.

### B. Funding and Other Resources

The Institution shall be encouraged to allocate funds for research regularly. Resources from various local and foreign agencies should be explored to augment the Institution's appropriation. In-house reviews shall be conducted periodically. Research results are disseminated to local and national instrumentalities interested in collaborating with academic institutions.

### C. Implementation, Monitoring, Evaluation and Utilization of Research Results/Outputs

The faculty are required to undertake or conduct research especially in their fields of specialization to supplement and improve the teaching-learning process and satisfy one of the four-fold mandated functions of the Institution. To sustain the quality of researches, incentives through honoraria, grant of service credits, and work-load adjustments shall be accorded to the faculty who are conducting researches and publishing their outputs. Likewise, continuous upgrading of faculty and research staff is undertaken by the institution to enhance research capabilities and competence. The conduct of department researches shall be encouraged in addition to specialized researches undertaken by the faculty. At best, a collective and/or collaborative research undertaken by the Institution/Academic Unit must be defined and focused. Moreover, completed researches shall be pilot-tested and eventually utilized.

## D. Publication and Dissemination

Researches whether on the proposal, on-going or completed stage may be published in the proper media and well disseminated to target clientele. The institution implements incentive schemes for publication and paper presentation of research outputs in national and international fora.

The following documents, additional information and exhibits will be useful in evaluating this Area, and should be made available, preferably at the Accreditation Center:

1. Approved budget allocation indicating the source and amount of funds;
2. Copies of Memoranda of Agreement;
3. Inventory of research facilities;
4. List and samples of research outputs/reports for the last two (2) years;
5. List of researches completed during the last two (2) years and some samples;
6. List of technical support provided by administration;
7. Proceedings of research in-house reviews;
8. Profile of research staff;
9. Published and unpublished researches in printed form;
10. Research Journal;
11. Research linkages;
12. Research Manual; and
13. Research Program incorporating researches of students.

# AREA V: RESEARCH

| RATING SCALE | | | | | | |
|---|---|---|---|---|---|---|
| **NA** | **0** | **1** | **2** | **3** | **4** | **5** |
| - | - | **Poor** | **Fair** | **Satisfactory** | **Very Satisfactory** | **Excellent** |
| *Not Applicable* | *Missing* | *Criterion is met minimally in some respects, but much improvement is needed to overcome weaknesses* *(75% lesser than the standards)* | *Criterion is met in most respects, but some improvement is needed to overcome weaknesses* *(50% lesser than the standards)* | *Criterion is met in all respects* *(100% compliance with the standards)* | *Criterion is fully met in all respects, at a level that demonstrates good practice* *(50% greater than the standards)* | *Criterion is fully met with substantial number of good practices, at a level that provides a model for others* *(75% greater than the standards)* |

| Indicators | Item Rating (IR) | System – Implementation – Outcome Mean (SIOM) | Parameter Mean (PM) |
|---|---|---|---|
| **PARAMETER A: PRIORITIES AND RELEVANCE** | | | |
| **SYSTEM – INPUTS AND PROCESSES** | | | |
| S.1. The institution's research agenda is in consonance with institutional, regional and national priorities concerned such as DOST, CHED-National Higher Education Research Agenda, NEDA, etc. | 5 | | |
| S.2. The institution has an approved Research Manual. | 5 | 5 | |
| **IMPLEMENTATION** | | | |
| I.1. The approved Research Agenda is implemented. | 4 | | |
| I.2. The following stakeholders participate in the formulation of research agenda as bases for identifying institutional thrusts and priorities: | 4.4 | | |
| I.2.1. administrators; | 4 | | |
| I.2.2. faculty; | 4 | | |

| Indicators | IR | SIOM | PM |
|---|---|---|---|
| I.2.3. students; 4 | | | |
| I.2.4. government agency representatives (DOST, CHED, NEDA, etc.); and 5 | | | |
| I.2.5. other stakeholders(alumni, parents, etc.). 5 | | | |
| I.3. Action researches to test theory in practice are conducted by faculty and students. | 3 | | |
| I.4. Team/collaborative and interdisciplinary research is encouraged. | 5 | | |
| I.5. Research outputs are published in refereed national and/or international journals. | 4 | 4.68 | |
| **OUTCOME/S** | | | |
| O.1. Priority researches are identified and conducted. | 4 | | |
| O.2. Research results are published. | 3 | 3.5 | 4.19 |
| **PARAMETER B: FUNDING AND OTHER RESOURCES** | | | |
| **SYSTEM – INPUTS AND PROCESSES** | | | |
| S.1. The institution has an approved and adequate budget for research. | 5 | | |
| S.2. There are provisions for the following: | 5 | | |
| S.2.1. facilities and equipment such as Internet, statistical software, and other ICT resources; 5 | | | |
| S.2.2. research staff; 5 | | | |

| Indicators | IR | SIOM | PM |
|---|---|---|---|
| S.2.3. supplies and materials; and 5 | | 5 | |
| S.2.4. workplace. 5 | | | |
| **IMPLEMENTATION** | | | |
| **The Institution:** | | | |
| I.1. allocates adequate funds for the conduct of faculty and student research. | 5 | | |
| I.2. establishes linkages with the local/national/international agencies for funding support and assistance. | 5 | | |
| I.3. maintains a functional and long-range program of faculty/staff development to enhance research capability and competence. | 3 | | |
| I.4. encourages the conduct of externally funded researches. | 4 | 4.25 | |
| **OUTCOME/S** | | | |
| O.1. The Research Program is adequately funded. | 5 | 5 | 4.75 |
| **PARAMETER C: IMPLEMENTATION, MONITORING, EVALUATION AND UTILIZATION OF RESEARCH RESULTS/OUTPUTS** | | | |
| **SYSTEM – INPUTS AND PROCESSES** | | | |
| S.1. There is a system of implementation, monitoring, evaluation and utilization of research outputs. | 5 | | |
| S.2. The institution has a policy on Intellectual Property Rights (IPR). | 5 | 5 | |

| Indicators | IR | SIOM | PM |
|---|---|---|---|
| **IMPLEMENTATION** | | | |
| I.1. The institution/College/Academic Unit has a Research Unit managed by competent staff. | 5 | | |
| I.2. The Research Manual provides guidelines and procedures for the administration and conduct of research. | 5 | | |
| I.3. The faculty conduct applied and operational researches in their fields of specialization in accordance with the thrusts and priorities of the program/institution. | 4 | | |
| I.4. The institution provides incentives to faculty researchers such as honoraria, service credits, deloading, etc. | 5 | | |
| I.5. The College/Academic Unit requires its students to conduct research, as a course requirement, *(whenever applicable)*. | 5 | | |
| I.6. The institution provides opportunities for advanced studies and/or training to enhance faculty/staff research competence. | 4 | | |
| I.7. Completed and on-going research studies are periodically monitored and evaluated in local and regional in-house reviews. | 5 | | |
| I.8. Research outputs are utilized as inputs in: | 4 | | |
| I.8.1. institutional development; | 4 | | |
| I.8.2. the improvement of instructional processes; and | 5 | | |
| I.8.3. the transfer of generated technology/knowledge to the community. | 3 | | |
| I.9. Packaged technologies and new information are disseminated to the target clientele through appropriate delivery systems. | 4 | | |
| I.10. The institution ensures that: | 5 | | |
| I.10.1. research outputs are protected by IPR laws; and | 5 | | |
| I.10.2. faculty and students observe research ethics to avoid malpractices like plagiarism, fabrication of data, etc. | 5 | 4.6 | |

| Indicators | IR | SIOM | PM |
|---|---|---|---|
| **OUTCOME/S** | | | |
| O.1. Implementation, monitoring, evaluation and research utilization of outputs are effective. | 5 | 5 | 4.86 |

| | | | |
|---|---|---|---|
| **PARAMETER D: PUBLICATION AND DISSEMINATION** | | | |
| **SYSTEM – INPUTS AND PROCESSES** | | | |
| S.1. The institution has an approved and copyrighted Research Journal. | 5 | | |
| S.2. The institution has incentives for: | 5 | | |
| S.2.1. paper presentations; | 5 | | |
| S.2.2. journal publication; | 5 | 5 | |
| S.2.3. outstanding research related performance; and | 5 | | |
| S.2.4. patented outputs. | 5 | | |

| | | | |
|---|---|---|---|
| **IMPLEMENTATION** | | | |
| I.1. The institution provides opportunities for the dissemination of research results in fora, conferences, seminars, and other related means. | 4 | | |
| I.2. The institution regularly publishes a research journal. | 5 | | |
| I.3. Library exchange of research publications with other HEI's and agencies is maintained. | 4 | | |
| I.4. Research manuscripts/technical reports are well-written, and edited following the institutional format. | 5 | | |
| I.5. The institution supports the researchers in all of the following activities: | 4.4 | | |

| Indicators | IR | SIOM | PM |
|---|---|---|---|
| I.5.1. Instructional Materials Development; 5 | | | |
| I.5.2. paper presentations, journal publication, classroom lectures, and other similar activities; 5 | | | |
| I.5.3. editorship/writing in academic, scientific and professional journals; 4 | | | |
| I.5.4. thesis/dissertation advising; and 5 | | | |
| I.5.5. patenting of research outputs. 3 | | | |
| I.6. Research results are published preferably in refereed journals. | 5 | | |
| I.7. Research results are disseminated to the target clientele. | 4 | | |
| I.8. The College/Academic Unit generates income from patents, licenses, copyrights, and other research outputs. | 3 | | |
| | | 4.3 | |

| OUTCOME/S | | | |
|---|---|---|---|
| O.1. Research outputs are published in refereed journals. | 4 | | |
| O.2. Research outputs are utilized. | 3 | | |
| O.3. Patented and copyrighted research outputs are commercialized. | 3 | | |
| | | 3.33 | |
| | | | 4.21 |
| | | Area Mean: | 4.50 |

## SUMMARY OF RATINGS

### AREA V: RESEARCH

| | Parameters | Numerical Rating | Descriptive Rating |
|---|---|---|---|
| A | PRIORITIES AND RELEVANCE | 4.19 | Very Satisfactory |
| B | FUNDING AND OTHER RESOURCES | 4.75 | Very Satisfactory |
| C | IMPLEMENTATION, MONITORING, EVALUATION AND UTILIZATION OF RESEARCH RESULTS/OUTPUTS | 4.86 | Very Satisfactory |
| D | PUBLICATION AND DISSEMINATION | 4.21 | Very Satisfactory |

**Total:** 18.01

**Mean:** 4.50 Very Satisfactory

**LEAD ACCREDITOR/S:**

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