Tele- 7249250184/2120

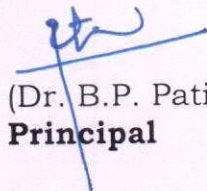AIT/0323/CNO/Prin   15 Feb 2021

OFFICE OF PRINCIPAL

STANDARD OPERATING PROCEDURE (SOP)

"BEST RESULT AWARD"

1.   The SOP for "Best Result Award" is released and attached herewith.

2.   This will be effective from current academic year 2019 – 20. Earlier SOP No. AIT/0323/CNO/Prin dated 16 Jan 2020 will be null and void.

3.   This SOP will be reviewed as and when required.

(Dr. B.P. Patil)
Principal

Copy To -

Director
Jt Dir   } for information please.

HOD Mech
HOD Comp
HOD E&TC   } for information and needful action please.
HOD IT
HOD ASGE

HOD IT   -   Publish on AIT Web site

Office Supdt   -   for Office Record

Army Institute of Technology, Pune

Committee Report - Review of SOP for Best Result Award

Introduction

1. A committee, as under, is constituted vide letter no. AIT/0323/CNO/Prin dated 7 Jan 2021 for review of SOP for the Best Result Award.

    (a) Dr Surekha K S - Presiding Officer

    (b) Prof Geeta Patil - Member

    (c) Dr Renuka Bhandari - Member

    (d) Prof Pravin Hore - Member

    (e) Dr Ganesh Mundhe – Member

2. The recommendations of the committee are based on the feedback received from the Principal and HoDs (through departmental representatives) about the lacunas of the existing SOP.

3. The SOP is subject to change as per the future revision of the examination process by the SPPU.

Guidelines

4. The SOP has been revised considering the following key points/criteria

    (a) The SOP applies to all UG and PG courses.

    (b) Only the subjects with the theory head are considered.

    (c) Results of the preceding two semesters in which the best result award announced shall be considered for calculation.

    (d) Only the first attempt (including revaluation results) results shall be considered for calculation.

    (e) The Result Index is based on the qualitative results only.

    (f) The analysis has to be conducted on a division basis for the first-year engineering and other branches having intake more than 60.

    (g) The analysis shall be based on the actual marks (not credit) scored by the students.

    (h) The minimum number of students to be counted in case of elective subjects of Undergraduate and all subjects of Postgraduate courses is as follows:

        (i) For an elective subject, the minimum number of students to be considered

should be one-third of the sanctioned intake (i.e greater than or equal to 20).

(ii) For Postgraduate course, the minimum number of students to be considered should be one-third of the sanctioned intake.

5. Total number of Awards   :05

Best FE result	01
Best SE Result (All branches)	01
Best TE Result (All branches)	01
Best BE Result (All branches)	01
Best ME-I and ME-II result	01

6. Nature of Award   : Prize Money and Certificate

7. The period under consideration   :One Academic Year(Two semesters)

8. Method of Evaluation:

(a)   All calculations shall be based on first attempt results only.

(b)   Qualitative Result Index :

$$R = B_1+B_2+B_3+B_4+B_5+B_6$$

Number of students who secured marks between 90% and 100% $=S_1$,

$B_1= (S_1*1.0)/(S/100)$

S= Total Strength of class

Number of students who secured marks between 80% and 89% $=S_2$,

$B_2= (S_2*0.9)/(S/100)$

Number of students who secured marks between 70% and 79% $=S_3$,

$B_3= (S_3*0.8)/(S/100$

Number of students who secured marks between 60% and 69% $=S_4$,

$B_4= (S_4*0.7)/(S/100)$

Number of students who secured marks between 50% to 59% $=S_5$,

$B_5= (S_5*0.6)/(S/100)$

Number of students who secured marks between 40% to 49% $=S_6$,

$B_6= (S_6*0.5)/(S/100)$

(c) The Result index shall be rounded up to two decimal points.

(d) Teacher with the highest Result index 'R' in any one of the subject in any semester shall be awarded the 'Best Result Award' for FE/SE/TE/BE/ME-I/ME-II.

(e) The minimum cut off for the Best Result Award:

Result Index of 70 and the minimum number of students clearing a particular Subject shall be 60%.

Procedure to apply for Best Result Award

9. The Principal will appoint a committee consisting of members of faculty to select the Teacher/Subject for the Best Result Award.

10. Departmental Heads shall prepare result sheets as per the guidelines given in para 4.

11. HoDs shall submit certified hard copies of result sheets along with necessary proofs to the selection committee.

Selection criteria
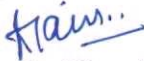
12. A teacher who has taught a particular subject in the class for more than $\frac{3}{4}^{th}$ of the semester is eligible.

13. If the Result index of more than one subject is same in a particular category, the index B1 is used for selection of the award. The subject with the highest index (B1) shall be considered for the award. If the result index (B1) are same, the same procedure shall be applied to the index B2. The process of selection of the best result shall be continued up to the index B6 if necessary.

14. A subject that receives an award in a particular category shall not be eligible for the same award for the next two consecutive years.
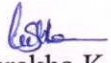
Recommendation

16. The selection committee shall recommend the list of faculty for the Best Result Award to the Principal.

17. The Best Result Award will be given during the AIT day ceremony on 24th Feb every year.
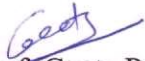
Encl: A case study
Format

Dr Ganesh Mundhe
Member

Prof Pravin Hore
Member

Dr Renuka Bhandari
Member

Prof. Geeta Patil
Member

Dr Surekha K S
Presiding Officer

Format for the selection of Best Result Award

(a) Qualitative Result Index :

$$R = B1+B2+B3+B4+B5+B6$$

Number of students who secured marks between 90% and 100% =S1,

$$B1= (S1*1.0)/(S/100)$$

$$S= \text{Total Strength of class}$$

Number of students who secured marks between 80% and 89% =S2,

$$B2= (S2*0.9)/(S/100)$$

Number of students who secured marks between 70% and 79% =S3,

$$B3= (S3*0.8)/(S/100)$$

Number of students who secured marks between 60% and 69% =S4,

$$B4= (S4*0.7)/(S/100)$$

Number of students who secured marks between 50% to 59% =S5,

$$B5= (S5*0.6)/(S/100)$$

Number of students who secured marks between 40% to 49% =S6,

$$B6= (S6*0.5)/(S/100)$$

(b)   If the Result index of more than one subject is same in a particular category, the index B1 is used for selection of the award. The subject with the highest index (B1) shall be considered for the award. If the result index (B1) are same, the same procedure shall be applied to the index B2. The process of selection of the best result shall be continued up to the index B6 if necessary.

(c)   Teacher with the highest Result index 'R' in any one of the subject in any semester shall be awarded the 'Best Result Award' for FE/SE/TE/BE/ME-I/ME-II.

(d)   The minimum cut off for the Best Result Award:

Result Index of 70 and the minimum number of students clearing a particular Subject shall be 60%.

Case Study for TE Results

Best Result: Summary for AY 2018-19 as per the existing SOP

Class (Branch)	Semester	Name of the Subject	Strength	A Quantitative result	B Qualitative result	C Average of A and B	D Last three years average result	R Result Index R=(C/D)*100
TE (E&TC-A)	Sem I	Electromagnetic & Transmission Lines	59	91.53	64.58	78.05	76.04	102.64
		Digital Communication	59	89.83	62.71	76.27	91.89	83.00
		Digital Signal Processing	59	96.61	67.29	81.95	87.09	94.10
		Microcontroller	59	72.88	43.56	58.22	83.55	69.69
		Mechatronics	59	81.36	51.19	66.27	71.67	92.46
TE (E&TC-B)	Sem I	Electromagnetic & Transmission Lines	61	95.08	65.41	80.25	72.09	111.31
		Digital Communication	61	95.08	64.43	79.75	92.57	86.15
		Digital Signal Processing	61	96.72	69.84	83.28	88.71	93.88
		Microcontroller	61	77.05	49.84	63.44	82.96	76.47
		Mechatronics	61	95.08	61.31	78.20	76.06	102.81

Best Result: Summary for AY 2018-19 as per the proposed SOP

Class (Branch)	Semester	Name of the Subject	Strength	R Qualitative result
TE (E&TC-A)	Sem I	Electromagnetic & Transmission Lines	59	64.58
		Digital Communication	59	62.71
		Digital Signal Processing	59	67.29
		Microcontroller	59	43.56
		Mechatronics	59	51.19
TE (E&TC-B)	Sem I	Electromagnetic & Transmission Lines	61	65.41
		Digital Communication	61	64.43
		Digital Signal Processing	61	69.84
		Microcontroller	61	49.84
		Mechatronics	61	61.31

Best Result: Summary for AY 2018-19 as per the existing SOP

Class (Branch)	Semester	Name of the Subject	Strength	A Quantitative result	B Qualitative result	C Average of A and B	D Last three years average result	R Result Index R=(C/D) *100
TE (Comp) – A	Sem I	Theory of Computation	59	93.22	60.00	76.61	90.00	85.12
		Database Management Systems	59	98.31	63.22	80.76	97.77	82.60
		Software Engineering & Project Mgmt.	59	98.31	70.00	84.15	98.33	85.58
		Information Systems & Engg. Economics	59	100.00	69.49	84.75	97.12	87.26
		Computer Networks	59	98.31	71.36	84.83	96.67	87.75
TE (Comp) – B	Sem I	Theory of Computation	60	96.67	66.33	81.50	90.00	90.56
		Database Management Systems	60	96.67	65.83	81.25	97.77	83.10
		Software Engineering & Project Mgmt.	60	98.33	71.67	85.00	98.33	86.44
		Information Systems & Engg. Economics	60	96.67	71.00	83.83	97.12	86.32
		Computer Networks	60	93.33	65.00	79.17	96.67	81.89

Best Result: Summary for AY 2018-19 as per the proposed SOP

Class (Branch)	Semester	Name of the Subject	Strength	R Qualitative result
TE (Comp) – A	Sem I	Theory of Computation	59	60.00
		Database Management Systems	59	63.22
		Software Engineering & Project Mgmt.	59	70.00
		Information Systems & Engg. Economics	59	69.49
		Computer Networks	59	71.36
TE (Comp) – B	Sem I	Theory of Computation	60	66.33
		Database Management Systems	60	65.83
		Software Engineering & Project Mgmt.	60	71.67
		Information Systems & Engg. Economics	60	71.00
		Computer Networks	60	65.00

Best Result: Summary for AY 2018-19 as per the existing SOP

Class (Branch)	Semester	Name of the Subject	Strength	A Quantitative result	B Qualitative result	C Average of A and B	D Last three years average result	R Result Index R=(C/D) *100
TE (Mech)	Sem I	Design of Machine Element I	63	88.89	56.67	72.78	91.87	79.22
		Heat Transfer	63	92.06	59.68	75.87	89.11	85.15
		Theory of Machines II	63	88.89	56.03	72.46	85.15	85.10
		Turbo Machines	63	63.49	37.46	50.48	80.87	62.42
		Metrology and Quality Control	63	98.41	69.21	83.81	98.34	85.22

Best Result: Summary for AY 2018-19 as per the proposed SOP

Class (Branch)	Semester	Name of the Subject	Strength	R Qualitative result
TE (Mech)	Sem I	Design of Machine Element I	63	56.67
		Heat Transfer	63	59.68
		Theory of Machines II	63	56.03
		Turbo Machines	63	37.46
		Metrology and Quality Control	63	69.21

Best Result: Summary for AY 2018-19 as per the existing SOP

Semester		Strength	A Quantitative result	B Qualitative result	C Average of A and B	D Last three years average result	R Result Index R=(C/D) *100
TE (IT)	Theory of Computation	60	96.67	61.67	79.17	77.21	102.53
	Database Management System	60	96.67	67.83	82.25	90.53	90.85
Sem I	Software Engineering & Project Mgmt.	60	100.00	71.50	85.75	96.14	89.19
	Operating System	60	100.00	76.33	88.17	100.00	88.17
	Human – Computer Interaction	60	100.00	74.17	87.08	100.00	87.08

Best Result: Summary for AY 2018-19 as per the proposed SOP

Semester		Strength	R Qualitative result
TE (IT)	Theory of Computation	60	61.67
	Database Management System	60	67.83
Sem I	Software Engineering & Project Mgmt.	60	71.50
	Operating System	60	76.33
	Human – Computer Interaction	60	74.17

The Best Result Award is awarded to:

As per the existing SOP	As per the proposed SOP
Electromagnetic & Transmission Lines (TE E&Tc)	Operating System (TE IT)