



**JADAVPUR UNIVERSITY
KOLKATA - 700032**

**GO No.1343-Edn(U)/1U-41/11(Pt) dt.07.12.2017
EC Res. No. 18 Dated 12.11.2022**

**APPLICATION FORM FOR PROMOTION OF UNIVERSITY TEACHERS UNDER
CAREER ADVANCEMENT SCHEME**

From :
Stage/Designation : Assistant Prof. (Stage 1)

To :
Stage/Designation : Assistant Prof. (Stage 2)

(Assistant Professor Stage 1 to Stage 2, Stage 2 to Stage 3), Assistant Professor (Stage 3) to Associate Professor (Stage 4), Associate Professor (Stage 4) to Professor/equivalent cadres (Stage 5).

PART A : GENERAL INFORMATION AND ACADEMIC BACKGROUND

1. Employee Id	190026
2. Full Name	NIRMALENDU BISWAS
3. Father's Name / Mother's Name	NARAYAN CHANDRA BISWAS
4. Date of Birth	12-02-1980
5. Category	SC Doc Link
6. Differently Abled	No
7. Department / School	POWER ENGINEERING
8. Current Designation	Assistant Professor
9. Academic Grade Pay (AGP) / Level	6000/10
10. Highest Qualification	Ph.D
11. Date of last promotion , if any	
12. Date of eligibility for promotion	27-06-2023
13. Assessment Period (in years)	4
14. Address for correspondence	FLAT NO. 2A, 2ND FLOOR, PETALS RESIDENTS APARTMENT, 9F AJANTA ROAD, SANTOSH PUR, KOLKATA 700075 (NEAR MILANI CLUB BAYAM SHAMITI)
15. Permanent Address	Flat No. 2A, 2nd Floor, Petals residents Apartment, 9F Ajanta Road, Santoshpur, Kolkata 700075 (Near Milani Club Bayam Shamiti)
16. Mobile No.	9433436521
17. E-mail Id	nbiswas.pe@jadavpuruniversity.in

Part B. Academic Qualifications :

A. Last Academic Qualifications (From graduation onwards excluding research degree(s)):

Degree/ Diploma	Name of the Board/ University	Year of Passing	(%)of Marks Obtained	Division/ Class/Grade	Subject(s)	Doc Link
MADHYAMIK PARIKSHA (SECONDAR Y)	WEST BENGAL BOARD OF SECONDAR Y EDUCATION	1997	75.60%	First Class (Star)	General (Additional: Biology)	View
HIGHER SECONDAR Y	WEST BENGAL COUNCIL OF HIGHER SECONDAR Y EDUCATION	1999	66.60%	First Division	Science (Phys, Chem, Math)	View
BACHELOR OF POWER ENGINEERI NG	JADAVPUR UNIVERSITY	2004	83.53%	1st Class with Honors	Heat transfer, Fluid Mechanics, Hydraulics, Combustion.	View

B. Research Degrees:

Degree	Title of Dissertation/Thesis	Date of Award	Name of the University	Doc Link
DOCTOR OF PHILOSOPHY IN ENGINEERING	THERMAL MANAGEMENT WITH CAVITIES UNDER NATURAL AND MIXED CONVECTION FLOW	27-10-2016	JADAVPUR UNIVERSITY	View
MASTER OF MECHANICAL ENGINEERING (SPECIALIZATION – HEAT POWER ENGINEERING)	AN EXPERIMENTAL VISUALISATION WITH PARTICLE IMAGE VELOCIMETRY AND CFD ANALYSIS OF FLOW THROUGH RADIAL CHANNELS	12-08-2008	JADAVPUR UNIVERSITY	View

Part C. Professional Experience :

A.Position(s) held Prior to Joining this University, if any:

Designation	Name of Employer	Date of Joining	Date of Leaving	Gross Salary	Reason for Leaving	Doc Link
Senior Design Engineer	Development Consultants Pvt. Ltd.	21-06-2004	24-12-2009	510000	For the Betterment in the Career Growth.	View
Senior Design Engineer	M. N Dastur & Company (P) Limited	04-01-2010	31-10-2010	540000	For the better opportunity in the career growth.	View
Assistant Manager	Thermax Limited	01-11-2010	19-03-2014	579192	For the better port folio in the career.	View
Deputy Manager	ArcelorMittal Design & Engineering Centre	20-03-2014	26-06-2019	1305288	For Shifting Field of Interest from Industry to Academy.	View

B.Posts held after Appointment at the University :

Designation	Department/ School	From date	To date	Pay Scale	AGP/Level	Doc Link
Assistant Professor - Stage 1	POWER ENGINEERING	27-06-2019	22-05-2023	Basic 73000	6000/10	View

Part D. Teaching Experience :**A.Period of Teaching and / or Research Experience :**

Level of Classes	No. of Years
PG Classes	4
UG Classes	4
Post-doctoral Research	4
Doctoral Research	4

B.Field(s) of Specialisation under the Subject/Discipline :

HEAT TRANSFER, MASS TRANSFER, COMBUSTION, THERMODYNAMIC CYCLES, FLUID DYNAMICS AND HYDRAULICS

Part E. Orientation / Induction Program(s) or Refresher / Short-term Course(s):**Program(s) / Course(s) Attended :**

Title of the Course	Place	Duration (No. of Weeks)	Period : From Date- To Date	Doc Link
5TH FACULTY INDUCTION PROGRAMME	JADAVPUR UNIVERSITY, KOLKATA	4	16TH NOVEMBER 2021 TO 20TH DECEMBER 2021.	View
INTER-DISCIPLINARY REFRESHER COURSE ON "CONTEMPORARY ISSUES OF NANO-SCIENCE AND NANO-TECHNOLOGY" ORGANIZED BY UGC-HRDC.	HUMAN RESOURCE DEVELOPMENT CENTRE, JADAVPUR UNIVERSITY, KOLKATA.	2 WEEKS.	9TH JANUARY 2023 TO 24TH JANUARY 2023.	View

API SCORE CALCULATION MATRIX**API CATEGORY : I. TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES**

Sl.No.	Nature of Activity	Max Marks	Hours spent per academic year	Self Appraisal Score	Verified API Score	Doc.Link(if any)
1.	Direct Teaching (self declaration)	70	656	70.00	70.00	View

2.	Examination duties (question paper setting, Invigilation, evaluation of answer scripts etc.) (self declaration)	20	36	3.60	3.60	View
3.	Innovative Teaching- learning methodologies, updating of subject contents/courses, mentoring etc. (self declaration)	10	100	10.00	10.00	View
Total				83.60		

API SCORE CALCULATION MATRIX

CATEGORY II: PROFESSIONAL DEVELOPMENT, CO-CURRICULAR AND EXTENSION ACTIVITIES

Nature of Activity	Max Marks	Hours spent per academic year	Self Appraisal Score	Verified API Score	Doc.Link (if any)
a). Student related co-curricular, extension and field based activities. (i) Discipline related co-curricular activities (e.g. remedial classes, career counseling, study visit, student seminar and other events.) (ii) Other co-curricular activities (Cultural, Sports, NSS, NCC etc.). Extension and dissemination activities (public /popular lectures/talks/ seminars etc.)	15	160	15.00	15.00	View
b). Contribution to corporate life and management of the department and institution through participation in academic and administrative committees and responsibilities. i). Administrative responsibility (including as Dean / Principal / Chairperson / Convener / Teacher-in-charge/ similar other duties that require regular office hrs for its discharge) ii). Participation in Board of Studies, Academic and Administrative Committees (Self declaration)	15	210	15.00	15.00	View
c.) Professional Development activities (such as participation in seminars, conferences, short term training courses, industrial experience, talks, lectures in refreshers/faculty development courses, dissemination and general articles and any other contribution	15	190	15.00	15.00	View
Total			45.00		

API SCORE CALCULATION MATRIX

CATEGORY III: Research and Academic Contribution

III-A : Journal Publication

Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of authors in others category	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
1	2019	MHD convection in a partially-driven cavity with corner heating	3	Corresponding author / supervisor / mentor	0	SN Applied Sciences	1, 1689	UGC Care List	2.600	View	View	30.25	30.25
2	2019	Convective heat transfer enhancement: effect of multi-frequency heating	3	Corresponding author / supervisor / mentor	0	International Journal of Numerical Methods for Heat & Fluid Flow	29 (10), 3822–3856	UGC Care List	3.924	View	View	30.25	30.25
3	2020	Role of aspiration to enhance MHD convection in protruded heater cavity	5	First author	0	Progress in Computational Fluid Dynamics, An International Journal	20(6), 363–378	UGC Care List	0.800	View	View	26.75	26.75
4	2020	Energy-saving method of heat transfer enhancement during magneto-thermal convection in typical thermal cavities adopting aspiration	3	First author	0	SN Applied Sciences	2, 1911	UGC Care List	2.600	View	View	30.25	30.25
5	2020	Thermal magneto-hydrodynamics in a ventilated porous enclosure	3	Corresponding author / supervisor / mentor	0	Sādhanā	45, 224	UGC Care List	1.600	View	View	28.50	28.50
6	2020	Magneto-thermal convection in lid-driven cavity	5	Corresponding author / supervisor / mentor	0	Sādhanā	45, 227	UGC Care List	1.600	View	View	28.50	28.50

Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of authors in others category	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
7	2020	The role of flow structures on the thermal performance of microchannels with wall features	5	Corresponding author / supervisor / mentor	0	Journal of Thermal Science and Engineering Applications	13(2), 001000-1-11	UGC Care List	2.100	View	View	30.25	30.25
8	2021	Exact solutions of fluid flow in an axially oscillating cylindrical pipe and annulus	2	Corresponding author / supervisor / mentor	0	SN Applied Sciences	3, 339	UGC Care List	2.600	View	View	32.50	32.50
9	2021	Effects of half-sinusoidal nonuniform heating during MHD thermal convection in Cu–Al ₂ O ₃ / water hybrid nanofluid saturated with porous media	3	First author	0	Journal of Thermal Analysis and Calorimetry	143, 1665–1688	UGC Care List	4.400	View	View	30.25	30.25
10	2021	Effect of multibanded magnetic field on convective heat transport in linearly heated porous systems filled with hybrid nanofluid	6	Corresponding author / supervisor / mentor	0	Physics of Fluids	33, 053604	UGC Care List	4.600	View	View	30.25	30.25
11	2021	A novel multi-banding application of magnetic field to convective transport system filled with porous medium and hybrid nanofluid	3	Corresponding author / supervisor / mentor	0	Physica Scripta	96, 065001	UGC Care List	2.900	View	View	30.25	30.25
12	2021	Impact of side injection on heat removal from truncated conical heat-generating porous bed: thermal non-equilibrium approach	5	Corresponding author / supervisor / mentor	0	Journal of Thermal Analysis and Calorimetry	143, 3741–3760	UGC Care List	4.400	View	View	30.25	30.25
13	2021	Thermo-bioconvection of oxytactic microorganisms in porous media in the presence of magnetic field	5	First author	0	International Journal of Numerical Methods for Heat & Fluid Flow	31(5), 1638-1661	UGC Care List	3.924	View	View	30.25	30.25
14	2021	Enhanced magnetohydrodynamic thermal convection in a partially driven cavity packed with a nanofluid-saturated porous medium	4	Corresponding author / supervisor / mentor	0	Mathematical Methods in the Applied Sciences.	doi: 10.1002/mma.7280	UGC Care List	2.900	View	View	30.25	30.25

Sl. No.	Yr. of Publ.	Title of the Paper	No. of authors	Role of Applicant	No. of authors in others category	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
15	2021	Effect of surface waviness on MHD thermo-gravitational convection of Cu–Al ₂ O ₃ –water hybrid nanofluid in a porous oblique enclosure	4	First author	0	Physica Scripta	96, 105002	UGC Care List	2.900	View	View	30.25	30.25
16	2021	Role of surface undulation during mixed bioconvective nanofluid flow in porous media in presence of oxytactic bacteria and magnetic fields	5	Corresponding author / supervisor / mentor	0	International Journal of Mechanical Sciences	211, 106778	UGC Care List	7.300	View	View	32.00	32.00
17	2021	Thermal management of nanofluid filled porous cavity utilized for solar heating system	4	Corresponding author / supervisor / mentor	0	Journal of The Institution of Engineers (India): Series C	103, 207–221	UGC Care List	0.000	None	View	25.00	25.00
18	2021	Magnetohydrodynamic bioconvection of oxytactic microorganisms in porous media saturated with Cu-water nanofluid	4	First author	0	International Journal of Numerical Methods for Heat & Fluid Flow	31 (11), 3461-3489	UGC Care List	3.924	View	View	30.25	30.25
19	2021	Magneto-hydrodynamic thermal convection of Cu–Al ₂ O ₃ /water hybrid nanofluid saturated porous media subjected to half-sinusoidal non-uniform heating	4	First author	0	Journal of Thermal Analysis and Calorimetry	143, 1727–1753	UGC Care List	3.600	View	View	30.25	30.25
20	2021	Magnetic force vectors as a new visualization tool for MHD convection	2	Corresponding author / supervisor / mentor	0	International Journal of Thermal Sciences	167, 107004	UGC Care List	4.500	View	View	32.50	32.50
21	2022	A narrative loom of hybrid nanofluid filled wavy walled tilted porous enclosure imposing a partially active magnetic field	6	First author	0	International Journal of Mechanical Sciences	217, 107028	UGC Care List	7.300	View	View	32.00	32.00
22	2022	Magneto-thermal convection of hybrid nanofluid in a non-Darcian porous complex wavy enclosure	5	Corresponding author / supervisor / mentor	0	The European Physical Journal Special Topics	231, 2695–2712	UGC Care List	2.600	View	View	30.25	30.25

Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of authors in others category	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
23	2022	Thermo-fluidic transport process in a novel M-shaped cavity packed with non-Darcian porous medium and hybrid nanofluid: Application of artificial neural network (ANN)	6	Corresponding author / supervisor / mentor	0	Physics of Fluids	34, 033608	UGC Care List	4.600	View	View	30.25	30.25
24	2022	Positional impacts of partial wall translations on hybrid nanofluid flow in porous media: Real Coded Genetic Algorithm (RCGA)	5	Corresponding author / supervisor / mentor	0	International Journal of Mechanical Sciences	217, 107030	UGC Care List	7.300	View	View	32.00	32.00
25	2022	Analysis of geometrical shape impact on thermal management of practical fluids using square and circular cavities	4	Corresponding author / supervisor / mentor	0	The European Physical Journal Special Topics	231, 2509–2537	UGC Care List	2.600	View	View	30.25	30.25
26	2022	Implementation of partial magnetic fields to magneto-thermal convective systems operated using hybrid-nanoliquid and porous media	5	First author	0	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	236(10), 5687–5704	UGC Care List	2.000	View	View	28.50	28.50
27	2022	Nanofluidic thermal-fluid transport in a split-driven porous system working under a magnetic environment	6	Corresponding author / supervisor / mentor	0	International Journal of Numerical Methods for Heat & Fluid Flow	32(7), 2543-2569	UGC Care List	3.924	View	View	30.25	30.25
28	2022	Magnetohydrodynamic thermal characteristics of water-based hybrid nanofluid filled non-Darcian porous wavy enclosure: effect of undulation	5	First author	0	International Journal of Numerical Methods for Heat & Fluid Flow	32 (5), 1742-1777	UGC Care List	3.924	View	View	30.25	30.25

Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of authors in others category	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
29	2022	Magnetohydrodynamic mixed bioconvection of oxytactic microorganisms in a nanofluid-saturated porous cavity heated with a bell-shaped curved bottom	4	First author	0	International Journal of Numerical Methods for Heat & Fluid Flow	31(12), 3722-3751	UGC Care List	3.924	View	View	30.25	30.25
30	2022	Entropy analysis during heat dissipation via thermomagnetic convection in a ferrofluid-filled enclosure	4	Corresponding author / supervisor / mentor	0	International Communications in Heat and Mass Transfer	138, 106323	UGC Care List	7.000	View	View	32.00	32.00
31	2022	Magneto-hydrothermal triple-convection in a W-shaped porous cavity containing oxytactic bacteria	4	First author	0	Scientific Reports	12, 18053	UGC Care List	5.516	View	View	32.00	32.00
32	2023	Magneto-nanofluid flow in cylinder-embedded discretely heated-cooled annular thermal systems: Conjugate heat transfer and thermodynamic irreversibility	5	Corresponding author / supervisor / mentor	0	Journal of Magnetism and Magnetic Materials	569, 170442	UGC Care List	2.700	View	View	30.25	30.25
33	2023	Magneto-hydrothermal convective dynamics of hybrid nanofluid-packed partially cooled porous cavity: effect of half-sinusoidal heating	5	Corresponding author / supervisor / mentor	0	Journal of Thermal Analysis and Calorimetry	148 (9), 3903-3928	UGC Care List	3.600	View	View	30.25	30.25
34	2023	Enhanced mixing quality of ring-type electroosmotic micromixer using baffles	3	Corresponding author / supervisor / mentor	0	Chemical Engineering and Processing - Process Intensification	189, 109381	UGC Care List	4.300	View	View	30.25	30.25
35	2023	Enhanced energy and mass transport dynamics in a thermo-magneto-bioconvective porous system containing oxytactic bacteria and nanoparticles: cleaner energy application	4	First author	0	Energy	263, 125775	UGC Care List	9.000	View	View	32.00	32.00

Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of authors in others category	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
36	2023	Effect of discrete heating-cooling on magneto-thermal-hybrid nanofluidic convection in cylindrical system	4	Corresponding author / supervisor / mentor	0	International Journal of Mechanical Sciences	238, 107852	UGC Care List	7.300	View	View	32.00	32.00
37	2023	Enhanced magneto-convective heat transport in porous hybrid nanofluid systems with multi-frequency nonuniform heating	6	Corresponding author / supervisor / mentor	0	Journal of Magnetism and Magnetic Materials	577, 170794	UGC Care List	2.700	View	View	30.25	30.25
38	2023	Experimental investigation of a solar chimney power plant and its numerical verification of thermo-physical flow parameters for performance enhancement	5	Corresponding author / supervisor / mentor	0	Sustainable Energy Technologies and Assessments	50, 101786	UGC Care List	8.000	View	View	32.00	32.00
39	2023	Thermal performance assessment for an array of cylindrical lithium-ion battery cells using an air-cooling system	6	Corresponding author / supervisor / mentor	0	Applied Energy	346, 121354	UGC Care List	11.200	View	View	33.75	33.75
40	2023	Impacts of heater-cooler position and Lorentz force on heat transfer and entropy generation of hybrid nanofluid convection in quarter-circular cavity	6	Other co-author	4	International Journal of Numerical Methods for Heat & Fluid Flow	33 (3 ...), 2023	UGC Care List	3.924	View	View	26.13	26.13
41	2023	Analysis of a square split-and-recombined electroosmotic micromixer with non-aligned inlet-outlet channels	4	Corresponding author / supervisor / mentor	0	Nanoscale and Microscale Thermophysical Engineering	27 (1), 55-73	UGC Care List	4.310	View	View	30.25	30.25
42	2023	Hybrid nanofluid magnetohydrodynamic mixed convection in a novel W-shaped porous system	5	Corresponding author / supervisor / mentor	0	Int. J. Numer. Meth. Heat Fluid Flow	33(2), 510-544	UGC Care List	3.924	View	View	30.25	30.25
43	2023	A novel design of absorber surface of solar chimney power plant (SCPP): Thermal assessment, exergy and regression analysis	5	Corresponding author / supervisor / mentor	0	Sustainable Energy Technologies and Assessments	56, 103039	UGC Care List	8.000	View	View	32.00	32.00

Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of authors in others category	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
44	2023	Novel stair-shaped ground absorber for performance enhancement of solar chimney power plant	4	First author	0	Applied Thermal Engineering	227, 120466	UGC Care List	6.400	View	View	32.00	32.00
											Total	1338.38	

III-B(i): Publications other than journal articles

Sl. No.	Yr.of Publ.	Type of Publication	Title of the Chapter/ Paper	Title of the Book/ Proceedings	No.of authors	Name of Publisher	Status of Publisher	ISBN/ISSN No	Doc. Link	Self Appraisal Score	Verified API Score
1	2020	Book Chapter/ Conf. Proceedings	Electro-thermal Convection in a Rectangular Enclosure	Lecture Notes in Mechanical Engineering, Advances in Thermal Engineering, Manufacturing, and Production Management, Springer Publications	3	Springer Publications	International	eBook ISBN 978-981-33-4165-4	View	3.33	3.33
2	2021	Book Chapter/ Conf. Proceedings	MHD Convection in Cavity Under Partially Applied Magnetic Fields	Lecture Notes in Mechanical Engineering, Advances in Thermal Engineering, Manufacturing, and Production Management, Springer Publications,	4	Springer Publications	International	eBook ISBN 978-981-16-2347-9	View	2.50	2.50

Sl. No.	Yr.of Publ.	Type of Publication	Title of the Chapter/ Paper	Title of the Book/ Proceedings	No.of authors	Name of Publisher	Status of Publisher	ISBN/ISSN No	Doc. Link	Self Appraisal Score	Verified API Score
3	2021	Book Chapter/ Conf. Proceedings	Magneto-Convective Heat Transfer in a Cavity Under Partial Magnetic Fields	Lecture Notes in Mechanical Engineering, Advances in Thermal Engineering, Manufacturing, and Production Management, Springer Publications,	3	Springer Publications	International	eBook ISBN 978-981-16-23 47-9	View	3.33	3.33
4	2021	Book Chapter/ Conf. Proceedings	MHD Thermal Convection of Nanofluid Saturated Porous Cavity Heated Linearly	Lecture Notes in Mechanical Engineering, Advances in Thermal Engineering, Manufacturing, and Production Management, Springer Publications,	3	Springer Publications	International	eBook ISBN 978-981-16-23 47-9	View	3.33	3.33
5	2022	Text Book	N/A	Hand Book of Research on Heat Transfer	3	Nova Science Publishers, Inc.	International	ISBN: 978-1-68507-5 42-2 (eBook)	View	10.00	10.00
6	2022	Text Book	N/A	Fluid Mechanics in Arterial Diseases: Computational Study	4	IGI Global	International	https://www.igi-global.com/e-resources/e-access/books-and-journals/	View	7.50	7.50
									Total	29.99	

III-B(ii): Referring of Journal Papers from UGC list

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
					Total	None	

CATEGORY III-C: Research Projects

III-C (i): Sponsored Project

Sl. No.	Area of the Applicant	Title of the Project	Name of the Funding Agency	Duration (no.of years)	Grant Sanctioned (in Lkhs)	Upload Grant Letter link	Self Appraisal Score	Verified API Score
1	Engineering & Technology	Investigation of nanoparticle-enhanced phase change materials (NePCM) for solar thermal energy storage application	SERB-SRG	2	20.04	View	15.00	15.00
2	Engineering & Technology	Investigation of Nanoparticle Enhanced Phase Change Materials	JU Research Grant	1	0.50	View	0.50	0.50
3	Engineering & Technology	"Transport Analysis of Dispersed Phase Flows for Energy Applications" under International and National Academic Networking and Collaboration from JU-RUSA Networking scheme	JU-RUSA Networking scheme	1	3.04	View	3.04	3.04
						Total	18.54	

III-C (ii): Consultancy Project

Sl. No.	Area of the Applicant	Title of the Project	Name of the Funding Agency	Duration (no.of years)	Amount Mobilized	Upload Grant Letter link	Self Appraisal Score	Verified API Score
1	Engineering & Technology	Piping Stress Calculation for Low Pressure System of Converter # and # 2 for M/S JINDAL STAINLESS AT ODISHA	Primetals Technologies India Private Limited, Plot EN-M F 2nd Floor, Tower - C, DLF IT Park-I, Okhla Major A	1	2.55	View	0.00	0.00
						Total	0.00	

III-C (iii): Projects Outcome/Output

Sl. No.	Area of the Applicant	Type	Title	Level	Doc.No./ Patent No/ Other ref. no	Status (if patent only)	Upload doc.link	Self Appraisal Score	Verified API Score
							Total	None	

III-D: Research Guidance

Sl. No.	Name of the Student	Degree	Title of the Thesis	Status	Document Link	Self API Score	Verified API Score
1	Pratik Roy	PhD	Analysis of thermal transport phenomena for magnetic hyperthermia in tissues	Ph.D Registered	View	5.00	5.00
2	Abhinav Saha	PhD	Constraint-based Analysis for Comparison of Thermal Performance in Various Buoyancy-driven Enclosures	Thesis submitted	View	10.00	10.00
3	Anjan Nandi	PhD	Analysis and performance improvement of PCM-based latent heat energy storage (LHES) using different hybrid methods	Ph.D Registered	View	5.00	5.00
4	Deepanjan Das	PhD	Electric field mediated transport dynamics of a bubble drop flow through microchannels	Ph.D Registered	View	5.00	5.00
					Total	25.00	

III-E : Fellowships, Awards and Invited lectures delivered in conferences / seminars**III-E : (i) Fellowship / Award from Academic Bodies/Associations**

Sl. No.	Type	Name of the Fellowship/Award	Name of the Awarding Body/Association	Level	Document Link	Self Appraisal Score	Verified API Score
1	Fellowship	INAE Fellows Recipient - 2021	Indian National Academy of Engineering (INAE)	National	View	10.00	10.00
2	Award for academic bodies/ Association	Winning the BEST PAPER AWARD	4th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING (ICAME 2022), SRM Nagar, Kattankulathur, Chengalpattu District - 603203. Tamil Nadu, India	International	View	15.00	15.00
					Total	25.00	

III-E : (ii) Invited Lecture / Paper presented

Sl. No.	Type	Title of the Lecture/ Paper	Name of the Conference/ Seminar/ Workshop	Organized by	Venue	Duration	Level	Document Link	Self Appraisal Score	Verified API Score
1	Invited Lecture	Enhanced Thermal Energy Transportation using free aspiration	Online WORKSHOP On ENHANCED THERMAL ENERGY TRANSPORT	Department of Mechanical Engineering, Dr.B.C. Roy Engineering College, Durgapur Campus: Jemua Road, Fuljhore, Durgapur Website: www.bcrec.ac.in	Google Meet: https://meet.google.com/prq-szgj-gtw	2 days	National	View	5.00	5.00
2	Paper presented	Magneto-convective heat transfer in a cavity under partial magnetic fields	1st International Conference on Thermal Engineering and Management Advances (ICTEMA 2020), June 27-28, 2020	Galpaiguri Government Engineering Collège	Department of Mechanical Engineering, Galpaiguri Government Engineering Collège	2 dyas	International	View	5.00	5.00
3	Paper presented	MHD convection in cavity under uniform heating with partially applied magnetic fields	1st International Conference on Thermal Engineering and Management Advances (ICTEMA 2020), June 27-28, 2020,	Galpaiguri Government Engineering College,	Mechanical Engineering Department, Galpaiguri Government Engineering College,	2 days	International	View	5.00	5.00
								Total	15.00	

III-E (iii): e-Learning Delivery Process/Material

Sl. No.	Name of the Module	Name of the Course	Name of the Program	Document Link	Self Appraisal Score	Verified API Score
1	Combustion Technologies	Master of Power Engineering	PG Course	View	10.00	10.00
2	Heat and Mass Transfer	Master of Power Engineering	PG Course	View	10.00	10.00
				Total	20.00	



JADAVPUR UNIVERSITY
KOLKATA - 700032

NIRMALENDU BISWAS - Final Report

Stage / Designation From:	Assistant Prof. (Stage 1)
Stage / Designation To:	Assistant Prof. (Stage 2)
Date of last promotion(if any) :	
Date of eligibility for promotion :	27-06-2023
Assessment Period (no.of years):	4

API Score Summary

Category	Period	Self Appraisal Score	Status
I	Yearly	83.60	Criteria Satisfied
II	Assessment Period	180.00	Criteria Satisfied
III	Assessment Period	1471.91	Criteria Satisfied
II + III	Assessment Period	1651.91	Criteria Satisfied

Signature of Applicant



JADAVPUR UNIVERSITY
KOLKATA - 700032

Career Advancement Scheme(CAS) Forwarding Letter

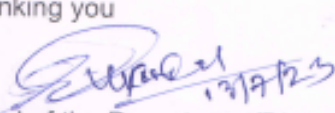
To
The Registrar
Jadavpur University

Dear Madam,

Prof./Dr./Mr./Ms. NIRMALENDU BISWAS, a faculty member in the Department/School of POWER ENGINEERING, is applying for promotion under the "Career advancement scheme(CAS)" from Assistant Prof. (Stage 1) to Assistant Prof. (Stage 2).

I forward his/her application for submission to the University and for due consideration.

Thanking you


(Head of the Department/Director of School)

Date: 13.7.23

Seal
Head
Dept. of Power Engg.
Jadavpur University
Salt Lake, 2nd Campus
Kolkata-700 098