



चौधरी चरण सिंह विश्वविद्यालय, मेरठ

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पत्रांक: आर0ओ0/1883/2026-27

दिनांक:- 05-10-2026

सेवा में,

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| 01. समस्त प्राचार्य/प्राचार्या/सचिव
समस्त सम्बद्ध महाविद्यालय/संस्थान
चौधरी चरण सिंह विश्वविद्यालय, मेरठ। | 02. समस्त विभागाध्यक्ष/समन्वयक/निदेशक
चौधरी चरण सिंह विश्वविद्यालय परिसर,
मेरठ। |
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महोदय/महोदया,

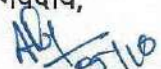
कृपया मुख्य विकास अधिकारी, मेरठ के पत्र दिनांक 25.09.2026 का सन्दर्भ ग्रहण करने का कष्ट करें, जो कि प्रो० श्यामा रथ, सदस्य सचिव, अखिल भारतीय तकनीकी शिक्षा परिषद, शिक्षा मंत्रालय, भारत सरकार के पत्र संख्या F.No. AICTE-MIC/SEVA First 2026 दिनांक 18.09.2026 के सन्दर्भ में है।

उक्त के सम्बन्ध में अवगत कराना है कि "सेवा संकल्प अभियान" कार्यक्रम के अन्तर्गत "सेवा फर्स्ट इनोवेशन चैलेंस" कार्यक्रम में जनपद के सभी विश्वविद्यालयों, इंजीनियरिंग कालेजों, आईटीआई एवं पालिटेक्निक संस्थानों में छात्रों का व्यापक ओरिएंटेशन एवं मोटिवेशन किया जाना है।

- सेवा फर्स्ट इनोवेशन चैलेंस (SFIC) तहत संस्थान द्वारा अपने संस्थान का पंजीकरण किया जाना है और छात्रों द्वारा तैयार किए गये नवाचारों (आईडिया) को सबमिट किया जाना है।
- पंजीकरण आधिकारिक पोर्टल <https://sevafirst.mic.gov.in/register> पर जाकर ऑनलाइन पूरा किया जाएगा।
- संस्थानों को अपने स्तर पर दी गयी 05 थीमों पर Problem Statement (संलग्न) के आधार पर एक प्रारंभिक स्क्रीनिंग प्रक्रिया आयोजित करनी होगी ताकि प्रत्येक थीम के तहत एक सर्वश्रेष्ठ आइडिया की पहचान की जा सके। संस्थानों को प्रत्येक थीम (विषय) के तहत केवल (01) नवाचार/आइडिया सबमिट या अपलोड करने की अनुमति है।

अतः आपसे अपेक्षा है कि आप अपने विभागों/महाविद्यालयों/संस्थानों में उपरोक्तानुसार कार्यक्रम आयोजित कराने का कष्ट करें।

संलग्नक:- उपरोक्तानुसार।

भवदीय,

कुलसचिव

प्रतिलिपि:- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

01. वैयक्तिक सहायक कुलपति को मा० कुलपति महोदया के संज्ञानार्थ।
02. छात्र कल्याण अधिष्ठाता, चौधरी चरण सिंह विश्वविद्यालय, मेरठ।
03. अध्यक्ष/संयोजक, साहित्यिक सांस्कृतिक परिषद, चौधरी चरण सिंह विश्वविद्यालय, मेरठ।
04. सहायक कुलसचिव, (सम्बद्धता) चौधरी चरण सिंह विश्वविद्यालय, मेरठ।
05. प्रभारी, वेबसाइट, चौधरी चरण सिंह विश्वविद्यालय, मेरठ।
06. प्रेस प्रवक्ता, चौधरी चरण सिंह विश्वविद्यालय, मेरठ।

कुलसचिव

नूपुर गोयल

आई०ए०एस०



मुख्य विकास अधिकारी,
मेरठ।

मो०नं० 9454416690

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अर्द्ध शा०पत्र संख्या: 505(A)

दिनांक: 25-09-2026

DM 601
31/01/26

प्रो. श्यामा रथ, सदस्य सचिव, अखिल भारतीय तकनीकी शिक्षा परिषद, शिक्षा मंत्रालय भारत सरकार के पत्र संख्या F. No. AICTE-MIC/SEVA First/2026 दिनांक 18.09.2026 दिनांक 17-09-2026 का सन्दर्भ ग्रहण करें। उक्त पत्र के क्रम में "सेवा संकल्प अभियान" कार्यक्रम के अन्तर्गत "सेवा फर्स्ट इनोवेशन चैलेंज" कार्यक्रम में जनपद के सभी विश्वविद्यालयों, इंजीनियरिंग कॉलेजों, आईटीआई एवं पॉलिटेक्निक संस्थानों में छात्रों का व्यापक ओरिएंटेशन एवं मोटिवेशन किया जाना है।

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उक्त के क्रम में आपसे अपेक्षा है कि आप इस कार्यक्रम की महत्ता को दृष्टिगत रखते हुए अपने स्तर से उचित कार्यवाही करते हुए, चौधरी चरण सिंह विश्वविद्यालय तथा अपने अधीनस्थ समस्त संस्थानों/महाविद्यालयों में कार्यक्रम आयोजित कराना सुनिश्चित करें।

संलग्नक:- उपरोक्तानुसार।

(नूपुर गोयल)

रजिस्ट्रार,

चौ० चरण सिंह विश्वविद्यालय,

मेरठ।

AR (Affiliation)

AD
03/10

कुलसचिव
चौ० चरण सिंह विश्वविद्यालय
मेरठ।

Ideathon 2026

Problem Statements

Shobhit University, Meerut - District Administration, Meerut
17 September 2026

Title of Problem	Problem Statement	Context	SDG Alignment	Suggested Tech/AI Angle	Expected Deliverable
Category A: Environment, Water & Waste					
1. Restoration and Monitoring of the Kali Nadi	Design a low-cost, AI/IoT-enabled water quality monitoring and public-alert system for the Kali Nadi that can detect pollution spikes and identify likely discharge points.	The Kali Nadi (East), flowing through Meerut, receives untreated industrial effluent and sewage, severely affecting groundwater and downstream agriculture.	SDG 6 (Clean Water), SDG 15 (Life on Land), SDG 9 (Industry Innovation)	Low-cost sensor nodes + ML-based anomaly detection + citizen-reporting app with image-based pollution classification	Working prototype/dashboard + a feasible monitoring network design for at least 3 points along the river within the district
2. Smart Segregation and Tracking of Municipal Solid Waste	Build an AI-based solution (app + computer vision or incentive model) to improve waste segregation at the household level and give ward-level visibility to municipal staff.	Door-to-door waste collection in Meerut Municipal Corporation wards often suffers from poor segregation at source and inconsistent tracking.	SDG 11 (Sustainable Cities), SDG 12 (Responsible Consumption)	Image classification for waste type detection, gamified citizen incentives, GPS-tracked collection vehicle dashboard	App/prototype demo + a rollout plan for at least one ward as a pilot
3. Revival of Local Water Bodies (Ponds/Talaabs)	Propose a technology-supported model (satellite/drone mapping + community engagement) to identify, prioritize, and revive degraded water bodies in the district.	Many traditional village ponds in Meerut district have been encroached upon, silted, or turned into dumping grounds, reducing groundwater recharge.	SDG 6 (Clean Water), SDG 13 (Climate Action), SDG 15 (Life on Land)	Satellite imagery/GIS analysis to map encroachment and water spread over years; a crowdsourced reporting app	A prioritized list of water bodies with a scoring model + a revival roadmap for 2–3 sample sites
4. Air Quality Management During Crop Residue Burning Season	Design an AI-driven early-warning and farmer-incentive system that discourages stubble burning by making residue management more profitable or convenient than burning.	Stubble burning in the sugarcane/paddy-wheat belt around Meerut contributes significantly to seasonal air quality deterioration.	SDG 13 (Climate Action), SDG 3 (Good Health), SDG 2 (Zero Hunger)	Satellite-based fire detection + predictive AQI alerts + marketplace app connecting farmers with residue-buyers (biofuel/fodder units)	A working alert dashboard + an economically viable residue-collection model
5. Groundwater Depletion Tracking	Create a data-driven advisory tool for farmers that predicts groundwater stress and	Sugarcane cultivation, water-intensive and dominant in Meerut district, is contributing	SDG 6 (Clean Water), SDG 2 (Zero Hunger), SDG 15 (Life on Land)	ML-based groundwater prediction using historical data + SMS/app-based irrigation advisory in Hindi	Advisory prototype tested with sample data from 2–3 blocks

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for Sugarcane Belt Villages	recommends crop/irrigation scheduling to balance productivity with sustainability.	to falling groundwater tables in several blocks.			
Category B: Agriculture & Rural Livelihoods					
6. AI-Based Crop Advisory for Smallholder Farmers	Develop an AI-powered advisory platform (voice/SMS/app) offering hyperlocal crop, pest, and weather guidance in Hindi/regional dialect for smallholder farmers with limited literacy or smartphone access.	Meerut's rural economy is dominated by sugarcane, wheat, and vegetable farming, but small farmers often lack timely, localized agronomic advice.	SDG 2 (Zero Hunger), SDG 1 (No Poverty), SDG 8 (Decent Work)	Voice-based AI assistant, image-based pest/disease detection, localized weather-ML models	Functional prototype with at least one crop-disease detection feature demonstrated on real images
7. Reducing Post-Harvest Losses for Perishable Produce	Design a tech-enabled solution connecting farmers directly with buyers/markets and optimizing storage/transport to cut post-harvest losses.	Vegetable and fruit growers around Meerut face significant post-harvest losses due to lack of cold storage and poor market linkage.	SDG 2 (Zero Hunger), SDG 12 (Responsible Consumption), SDG 8 (Decent Work)	Demand-prediction ML models, farmer-to-market app, shared cold-storage booking system	App/platform prototype + estimated loss-reduction impact model
8. Value Addition and Branding for Gur (Jaggery) Cluster	Propose a digital branding, quality-certification, and direct-market-access solution to help gur producers access better prices and wider markets, including export potential.	Meerut district has a traditional jaggery (gur) production cluster, but producers largely sell as unbranded commodity with low margins.	SDG 8 (Decent Work), SDG 1 (No Poverty), SDG 9 (Industry Innovation)	QR-based traceability, e-commerce onboarding support, AI-assisted quality grading via image analysis	Branding/traceability prototype + a go-to-market plan for one cluster/village
9. Skilling and Market Access for Sports Goods Artisans	Build a digital platform/toolkit that helps small sports-goods manufacturing units access design trends, e-commerce/export channels, and skill-upgradation resources.	Meerut is a major hub for sports goods manufacturing (Kila Parade, Sarurpur Khurd), but many small artisan units struggle with design innovation, digital marketing, and export documentation.	SDG 8 (Decent Work), SDG 9 (Industry Innovation), SDG 4 (Quality Education)	AI-based trend/design recommendation, simplified export-documentation assistant, digital catalog/marketplace	Platform prototype + onboarding plan for at least 5 sample artisan units
10. Support System for Meerut's Scissors & Cutlery Micro-Enterprises	Design a digital cooperative/aggregator model that helps micro-units pool raw material purchase, access formal credit, and reach wider buyers.	Meerut's traditional scissors and cutlery (metalware) cluster consists largely of unorganized micro-units facing raw material,	SDG 8 (Decent Work), SDG 9 (Industry Innovation), SDG 1 (No Poverty)	Group-buying app, AI-based credit-scoring for informal units, demand-aggregation dashboard	Working prototype of the aggregator model + a pilot plan with a sample artisan group

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		credit, and market access challenges.			
Category C: Urban Governance, Traffic & Infrastructure					
11. AI-Based Traffic Management for Congested City Corridors	Develop an AI-based traffic monitoring and signal-optimization solution to reduce congestion and improve emergency-vehicle response time on identified corridors.	Key stretches such as Delhi Road, Garh Road, and Begum Bridge Road face chronic congestion, worsened by encroachments, mixed traffic, and ongoing RRTS/metro construction.	SDG 11 (Sustainable Cities), SDG 9 (Industry Innovation)	Computer-vision-based vehicle counting, adaptive signal timing, congestion-prediction dashboard for traffic police	Simulation or prototype demonstrating improved flow on at least one modeled corridor
12. Smart Parking and Encroachment Management in Meerut City	Propose a technology-enabled parking and vendor-zone management system that balances livelihood needs of vendors with traffic decongestion.	Unregulated street parking and encroachment by vendors near markets (Sarafa Bazaar, Abu Lane, Sadar) choke traffic and hurt pedestrian safety.	SDG 11 (Sustainable Cities), SDG 8 (Decent Work)	App-based smart parking slots, AI-based occupancy detection via cameras, digital vendor-zone permit system	Prototype + implementation plan for one market area
13. Integrating RRTS/Metro Connectivity with Last-Mile Transport	Design a smart last-mile connectivity solution (shared mobility, e-rickshaw integration, or route optimization) linking RRTS stations to key destinations in Meerut.	With the Delhi-Meerut RRTS (NCRTC) corridor operational/expanding, last-mile connectivity from stations to residential and institutional areas remains weak.	SDG 11 (Sustainable Cities), SDG 13 (Climate Action)	Route-optimization algorithms, demand-based e-rickshaw aggregator app, integrated ticketing concept	App/route-plan prototype for at least one RRTS station's catchment area
14. AI-Enabled Grievance Redressal for Municipal Services	Build an AI-enhanced grievance redressal platform that auto-classifies, prioritizes, and routes complaints, with predictive escalation for unresolved issues.	Citizens often face delays and lack of transparency when reporting municipal issues (potholes, streetlights, drainage, garbage) to Meerut Municipal Corporation.	SDG 11 (Sustainable Cities), SDG 16 (Strong Institutions)	NLP-based complaint classification, image-based issue verification, priority-scoring model	Working app/dashboard prototype with sample complaint workflow
15. Digital Twin/Dashboard for District Administration Decision-Making	Propose an integrated data dashboard that consolidates key district indicators to support administrators in monitoring scheme implementation and identifying underserved areas.	District administration handles diverse data (health, education, infrastructure, welfare schemes) often in silos, slowing evidence-based decisions.	SDG 16 (Strong Institutions), SDG 17 (Partnerships)	Data-aggregation pipeline, GIS-based visualization, AI-based anomaly/underperformance flagging	Dashboard prototype using sample/mock district data across at least 3 indicators

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Category D: Social Development, Education & Health					
16. Bridging the Employability Gap for Local Graduates	Design an AI-powered skills-mapping and career-guidance platform that matches local students with industry-relevant skilling programs and job/internship opportunities in and around Meerut.	Meerut has a large student population across its colleges/universities, but many graduates face a mismatch between their skills and local industry (sports goods, dairy, metalware, retail) requirements.	SDG 4 (Quality Education), SDG 8 (Decent Work)	AI-based skill-gap analysis, resume-to-job matching, local employer database integration	Functional matching prototype + a pilot plan with at least 2 local industry partners
17. Reducing School Dropout Rates in Peri-Urban and Rural Areas	Propose a data-driven early-warning system for schools/administration to identify at-risk students and enable timely intervention (counselling, financial support, or flexible learning).	Certain blocks in Meerut district continue to see higher dropout rates, particularly among girls, at the secondary school level.	SDG 4 (Quality Education), SDG 5 (Gender Equality), SDG 10 (Reduced Inequality)	Predictive ML model using attendance/performance data, counsellor-alert app	Prediction model prototype tested on sample/synthetic school data + intervention framework
18. Improving Access to Maternal and Child Health Services	Build an AI/mobile-based tool to help ASHA/Anganwadi workers track maternal-child health records, flag high-risk cases, and send timely reminders.	Anganwadi and primary health centers in rural Meerut face gaps in follow-up care, immunization tracking, and timely referrals for high-risk pregnancies.	SDG 3 (Good Health), SDG 5 (Gender Equality)	Simple mobile app with offline sync, ML-based risk flagging, automated reminder system	App prototype demonstrating record-tracking and at least one risk-flagging scenario
19. Digital Financial Inclusion for Women Self-Help Groups (SHGs)	Design a digital platform that helps SHGs manage group finances, access micro-credit, and sell products online, with AI-assisted bookkeeping and creditworthiness assessment.	Women's SHGs across Meerut district's villages, often engaged in dairy, handicrafts, or food processing, face barriers in accessing formal credit, digital payments, and markets.	SDG 5 (Gender Equality), SDG 1 (No Poverty), SDG 8 (Decent Work)	AI-assisted bookkeeping/voice-input ledger, alternative credit-scoring model, integrated marketplace	Prototype demonstrating ledger + at least one credit-scoring or marketplace feature
20. Community-Based Early Warning for Waterlogging and Urban Flooding	Develop an AI/IoT-based early-warning system for waterlogging-prone areas that alerts residents and municipal staff before drains overflow, along with a drain-maintenance prioritization tool.	Several low-lying colonies in Meerut city experience recurring waterlogging during monsoon due to blocked drains and inadequate stormwater planning.	SDG 11 (Sustainable Cities), SDG 13 (Climate Action)	Low-cost water-level sensors, rainfall-prediction integration, ML-based drain-blockage risk scoring	Alert-system prototype + a prioritized drain-maintenance map for at least one ward
21. Accessible and Dignified Public Services for Elderly	Design a voice-first, Hindi-language-enabled interface that allows elderly residents and	Many elderly residents and persons with disabilities (PwDs) across Meerut district face	SDG 10 (Reduced Inequality), SDG 3	Voice-based conversational AI (Hindi/regional dialect speech-to-text and text-to-speech),	A working voice/IVR prototype demonstrating at least two use cases (e.g., pension status check

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and Persons with Disabilities	persons with disabilities to check pension/scheme status, book healthcare appointments, and file municipal grievances without needing to read, type, or navigate complex forms.	difficulty accessing pensions, healthcare appointments, and municipal grievance systems, most of which assume able-bodied, tech-literate, and often English/text-reading users. This leaves a significant population dependent on intermediaries or unable to access entitlements they qualify for.	(Good Health), SDG 16 (Strong Institutions)	simplified IVR or WhatsApp-voice-note interface, screen-reader-compatible design for visually impaired users, and family/caregiver-assisted account options for those who need support	and grievance filing), tested with a small sample of elderly or PwD users for usability feedback
22. Drinking Water Quality Awareness at the Household Level	Design a simple, low-cost way to raise awareness about drinking water safety — such as a basic household water-testing/reporting method, or an easy-to-understand communication tool explaining risks and simple treatment steps (boiling, filtering, chlorination).	Many households in Meerut district, especially in areas near industrial or agricultural runoff, are unaware of the quality of their drinking water.	SDG 6 (Clean Water), SDG 3 (Good Health)		An awareness/communication toolkit
23. Simple Child Health and Nutrition Tracking for Anganwadi Centers	Design a simple, low-tech tracking protocol or checklist (paper-based, colour-coded, or basic mobile form) that helps Anganwadi workers monitor child growth consistently and identify children needing referral, without requiring new technology infrastructure.		SDG 3 (Good Health)		A tested tracking template/protocol + a one-page guide for Anganwadi workers, trialed with sample data from a few children
24. Waste-to-Wealth Innovation	Design a low-cost, scalable "waste-to-wealth" model that converts one specific local waste stream into a marketable product or resource (e.g., compost, briquettes, handicrafts, construction material).	Local waste streams — sugarcane bagasse, cattle dung, plastic waste, construction debris — largely go unmonetized. Small entrepreneurs and SHGs lack simple, replicable models to turn this waste into sellable products.	SDG 12 (Responsible Consumption), SDG 8 (Decent Work), SDG 9		A feasible process model with a sample prototype product and a basic cost-benefit estimate
25. Urban Green Spaces Design	Propose a design/planning model to identify underused urban spaces (vacant plots, road	Rapid urbanization in Meerut has shrunk open and green spaces, worsening urban heat,	SDG 11 (Sustainable Cities), SDG 13		A design blueprint for at least one identified space + a simple

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	medians, rooftops, institutional campuses) and convert them into functional green spaces meeting community needs.	air quality, and loss of community gathering areas.	(Climate Action), SDG 15 (Life on Land)		community engagement / maintenance plan
26. Plastic-Free Urban Models	Design a practical model to reduce single-use plastic in one specific market, campus, or institution — through behavior change, affordable alternatives, or incentive systems.	Despite bans, single-use plastic remains widespread in local markets, food stalls, and institutions across Meerut.	SDG 12 (Responsible Consumption), SDG 11 (Sustainable Cities)		A pilot plan for one market/campus + a distribution model for reusable alternatives
27. Revitalizing Heritage Spaces	Design a revitalization plan for one specific heritage site that balances conservation, tourism potential, and everyday community use.	Meerut has several under-recognized heritage sites (colonial-era buildings, 1857-related landmarks, old temples/forts) facing neglect or encroachment.	SDG 11 (Sustainable Cities — safeguarding cultural heritage), SDG 8 (Decent Work — tourism/local economy)		A conservation-cum-tourism plan for one site + a basic digital storytelling or AR prototype concept